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## 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

# PANDUIT® Styles of Cable Ties

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## Selection of Styles



### **PAN-TY® Cable Ties**

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



### **DOME-TOP® 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 **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** installation tools.



### **Specialty Ties**

Panduit continually develops new products to help solve the unique application problems of our customers. One of these products is the aerial support tie which typifies the design/manufacturing capability of Panduit to respond to these special needs.



### **Stainless Steel Ties and Strapping**

Underground, underwater, indoors, outdoors—however hostile the environment—**PANDUIT** Stainless Steel Ties and Strapping let you 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°F to 1700°F (-80°C to 925°C).

**For Technical Information in the U.S.A.  
Call 888-506-5400 or 708-532-1800 -- Extension 1483**

*Other countries, see the Home Page for local Sales Office information*

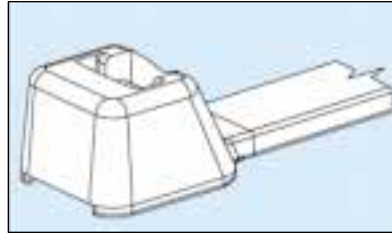
## PAN-TY® Cable Tie Features/Benefits:

### 1. ONE PIECE CONSTRUCTION



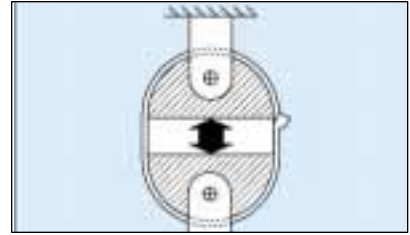
- Consistent performance and reliability.
- Available in lengths from 2.8" (71mm) up to 43.3" (1100mm) to meet a variety of application requirements.

### 2. SMOOTH, ROUND EDGES



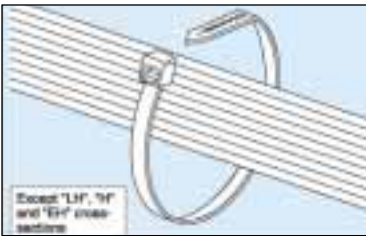
- No irritation to installer's hands, increases productivity.
- Prevents damage to wire insulation.

### 3. TENSILE STRENGTH



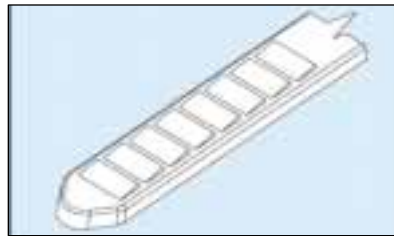
- Exceeds Industry and Military (MIL-S-23190E) standards
- Available in seven loop tensile strengths from 8 lbs. (36N) up to 250 lbs. (1112N) to provide an economical selection from which to choose.

### 4. CURVED TIP



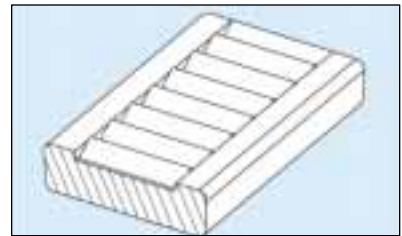
- Orients tip toward head to speed installation—lowers installed cost.
- Faster initial threading.
- Easier to pick up from flat surfaces.

### 5. FINGER TIP GRIP



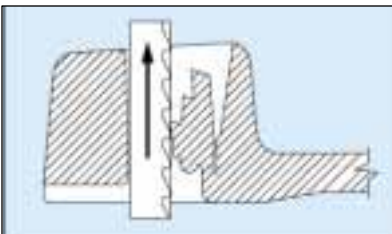
- Finger tip grip on selected sizes assures positive grip during threading of the tie.
- Grip prevents tip from slipping out of cable tie head during threading.

### 6. MORE TEETH PER INCH



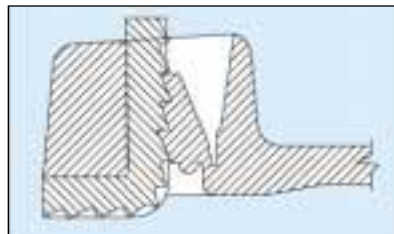
- Greater number of small uniform teeth provides tighter bundles.
- Because they're flush with surface they provide proper wire bundle grip without wire insulation damage.

### 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.

### 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.

### 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.

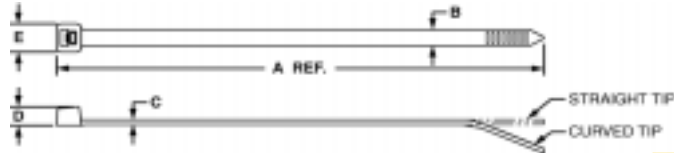
# PANDUIT® Nylon 6.6 Locking Cable Ties (PLT Series)

## PAN-TY® Nylon 6.6 Locking Cable Ties

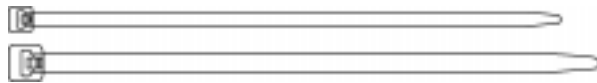


These versatile fasteners can be used in countless applications wherever you need to bundle wire, cable, or hose. They tie bundle diameters up to 13 inches (can also be joined together for even larger diameters) and have minimum loop tensile strengths from 12 to 175 pounds. Colors are available for specific color-coding applications ([See Page 37 to 39](#) for color and material availability chart).

All PLT cable ties (except -DTP, -XMR, -VMR, -5K, heavy and extra heavy cross section) have curved tip design for faster threading.



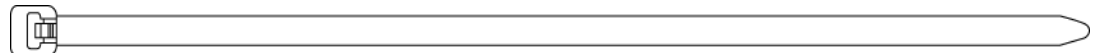
### SUB-MINIATURE AND MINIATURE CROSS SECTION



Cable Ties for Automatic Tools—  
[See Page 46](#)

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.
<b>PLT.6SM-C</b>	2.8 (71)	.070 (1.8)	.030 (.76)	.095 (2.4)	.125 (3.2)	.6 (15.2)	8 (36)	GS2B	100	1000	1000	50000
<b>PLT.7M-C</b>	3.1 (79)	.090 (2.3)	.032 (.9)	.115 (2.9)	.180 (4.6)	.68 (17.3)	18 (80)		100	1000	1000	50000
<b>PLT.1M-C</b>	3.9 (99)	.098 (2.5)	.043 (1.1)	.154 (3.9)	.180 (4.6)	.87 (22)	18 (80)		100	1000	1000	50000
<b>PLT.1.5M-C</b>	5.6 (142)	.098 (2.5)	.043 (1.1)	.154 (3.9)	.180 (4.6)	1.25 (32)	18 (80)	GS2B, PPTS or STS2	100	1000	1000	50000
<b>PLT.2M-C</b>	8.0 (203)	.098 (2.5)	.043 (1.1)	.154 (3.9)	.180 (4.6)	2.00 (51)	18 (80)		100	1000	1000	25000

### INTERMEDIATE CROSS SECTION



<b>PLT1.5I-C</b>	5.6 (142)	.142 (3.6)	.045 (1.2)	.180 (4.6)	.240 (6.1)	1.38 (35)	40 (178)	GS2B, PPTS or STS2	100	1000	1000	25000
<b>PLT2I-C</b>	8.0 (203)	.142 (3.6)	.045 (1.2)		.240 (6.1)	2.00 (51)			100	1000	1000	25000
<b>PLT2.5I-C</b>	9.7 (246)	.142 (3.6)	.052 (1.3)		.240 (6.1)	2.50 (64)			100	1000	1000	10000
<b>PLT3I-C</b>	11.4 (290)	.145 (3.7)	.052 (1.3)		.260 (6.6)	3.00 (76)			100	1000	1000	10000
<b>PLT4I-C</b>	14.6 (371)	.145 (3.7)	.052 (1.3)		.260 (6.6)	4.00 (102)			100	1000	1000	10000

### STANDARD CROSS SECTION



<b>PLT1S-C</b>	4.8 (122)	.190 (4.8)	.052 (1.3)	.220 (5.6)	.316 (8.0)	1.00 (25)	50 (222)	GS2B, GS4H, PPTS, STS2 or STH2	100	1000	1000	25000
<b>PLT1.5S-C</b>	6.2 (157)				.316 (8.0)	1.50 (38)			100	1000	1000	25000
<b>PLT2S-C</b>	7.4 (188)				.316 (8.0)	1.88 (48)			100	1000	1000	10000
<b>PLT2.5S-C</b>	9.8 (249)				.337 (8.6)	2.50 (64)			100	1000	1000	10000
<b>PLT3S-C</b>	11.5 (292)				.337 (8.6)	3.00 (76)			100	1000	1000	10000
<b>PLT3.5S-C</b>	13.0 (330)				.337 (8.6)	3.50 (89)			100	1000	1000	10000
<b>PLT4S-C</b>	14.5 (368)				.337 (8.6)	4.00 (102)			100	1000	1000	5000
<b>PLT4.5S-C</b>	15.5 (394)				.337 (8.6)	4.50 (114)			100	1000	1000	5000
<b>PLT5S-C</b>	17.5 (445)				.337 (8.6)	5.00 (127)			100	500	1000	5000

Most commonly used parts appear in **BOLD**.

\*Order the Number of Pieces Required in Multiples of Packaging Quantities.

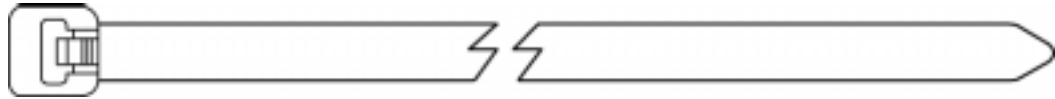
†Part Number shown for Standard Package Quantity. For Bulk Pack Part Numbers, [See Page 40 to Page 41](#).

For colors and other materials, [See Page 36 to 39](#).



# PANDUIT® Nylon 6.6 Locking Cable Ties (PLT Series)

**LIGHT HEAVY  
AND HEAVY  
CROSS SECTION**



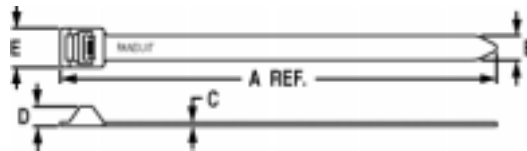
Part Number†	Length A In. (mm)	Width B In. (mm)	Thickness C In. (mm)	Head Height D In. (mm)	Head Width E In. (mm)	Max. Bundle Dia. In. (mm)	Min. Loop Tensile Strength Lbs. (N)	Recommended <b>PANDUIT</b> ® Installation Tool Part No.	Packaging*			
									Std. Pkg. Qty.	Std. Ctn. Qty.	Bulk Pkg. Qty.	Bulk Ctn. Qty.
<b>120 Lb. Minimum Loop Tensile</b>												
<b>PLT2H-L</b>	8.1 (206)	.300 (7.6)	.075 (1.9)	.290 (7.4)	.480 (12.2)	2.00 (51)	120 (534)	GS4H, GS4EH PPTEH or STH2	50	500	250	2500
<b>PLT2.5H-L</b>	10.0 (254)								50	500	250	2500
<b>PLT3H-L</b>	11.4 (290)								50	500	250	2500
<b>PLT4H-L</b>	14.5 (368)								50	500	250	2500
<b>PLT6LH-L</b>	21.9 (556)								50	500	100	2000
<b>PLT7LH-L</b>	24.7 (627)								50	500	100	2000
<b>PLT8LH-L</b>	27.6 (701)								50	500	100	2000
<b>PLT9LH-L</b>	30.5 (775)								50	500	100	1000
<b>PLT10LH-L</b>	34.3 (871)								50	1000	100	1000
<b>175 Lb. Minimum Loop Tensile</b>												
<b>PLT5H-L</b>	17.7 (450)	.350 (8.9)	.078 (2.0)	.340 (8.6)	.560 (14.2)	5.00 (127)	175 (778)	GS4H, GS4EH PPTEH or STH2	50	500	100	2500
<b>PLT6H-L</b>	20.9 (530)								50	500	100	2000
<b>PLT8H-L</b>	30.6 (779)								50	500	100	1000
<b>PLT13H-Q</b>	43.3 (1100)								25	500	100	500

Most commonly used parts appear in **BOLD**.

## PAN-TY® 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 15](#)).

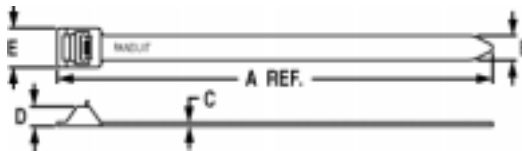


Part Number†	Length A In. (mm)	Width B In. (mm)	Thickness C In. (mm)	Head Height D In. (mm)	Head Width E In. (mm)	Max. Bundle Dia. In. (mm)	Min. Loop Tensile Strength Lbs. (N)	Recommended <b>PANDUIT</b> ® Installation Tool Part No.	Packaging*			
									Std. Pkg. Qty.	Std. Ctn. Qty.	Bulk Pkg. Qty.	Bulk Ctn. Qty.
<b>Nylon 6.6 for Indoor Use</b>												
<b>PLT2EH-C</b>	9.0 (229)	.500 (12.7)	.075 (1.9)	.40 (10.2)	.80 (20.3)	2.0 (51)	250 (1112)	GS4H, GS4EH PPTEH or STH2	—	—	100	1000
<b>PLT5EH-Q</b>	20.1 (510)								25	250	100	1000
<b>PLT6EH-Q</b>	22.2 (563)								25	250	100	1000
<b>PLT8EH-C</b>	28.3 (718)								—	—	100	1000
<b>PLT10EH-C</b>	34.2 (868)								—	—	100	500
<b>PLT12EH-C</b>	40.1 (1018)								—	—	100	500

Most commonly used parts appear in **BOLD**.

# PANDUIT® Nylon6.6 Locking Cable Ties (PRT Series)

## PAN-TY® Releasable Lashing Ties

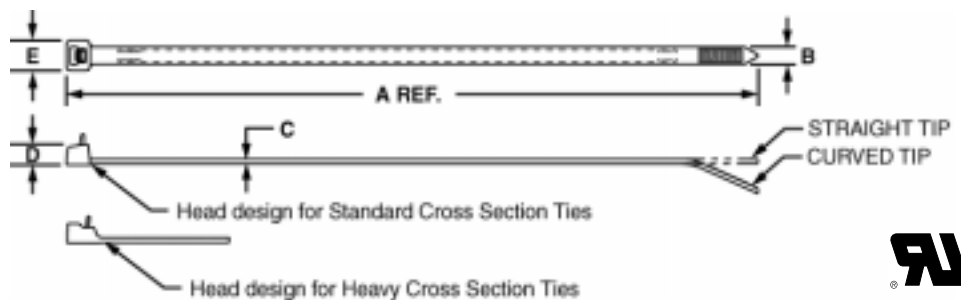
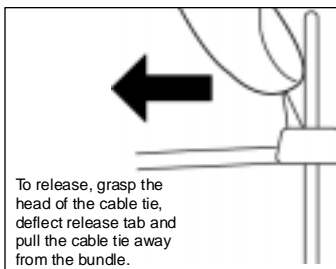


Part Number†	Length A In. (mm)	Width B In. (mm)	Thickness C In. (mm)	Head Height D In. (mm)	Head Width E In. (mm)	Max. Bundle Dia. In. (mm)	Min. Loop Tensile Strength Lbs. (N)	Recommended PANDUIT® Installation Tool Part No.	Packaging*				
									Std. Pkg. Qty.	Std. Ctn. Qty.	Bulk Pkg. Qty.	Bulk Ctn. Qty.	
<b>Nylon 6.6 for Indoor Use</b>													
<b>PRT2EH-C</b>	9.0 (229)	<b>.500</b> (12.7)	.075 (1.9)	<b>.40</b> (10.2)	<b>.80</b> (20.3)	2.0 (51)	250 (1112)	Hand Installed Only	—	—	100	1000	
<b>PRT5EH-Q</b>	20.1 (510)		.075 (1.9)			5.0 (127)			25	250	100	1000	
<b>PRT6EH-Q</b>	22.2 (563)		.075 (1.9)			6.0 (152)			25	250	100	1000	
<b>PRT8EH-C</b>	28.3 (718)		.085 (2.2)			8.0 (203)			—	—	100	1000	
<b>PRT10EH-C</b>	34.2 (868)		.085 (2.2)			10.0 (254)			—	—	100	500	
<b>PRT12EH-C</b>	40.1 (1018)		.085 (2.2)			12.0 (305)			—	—	100	500	

Most commonly used parts appear in **BOLD**.

## PAN-TY® Releasable Nylon 6.6 Cable 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 in harnessing where changes are anticipated during development, production or servicing in the field.



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.	
<b>Standard Cross Section</b>													
<b>PRT1S-C</b>	4.8 (122)	<b>.190</b> (4.8)	<b>.052</b> (1.3)	<b>.219</b> (5.6)	.316 (8.0)	1.00 (25)	50 (222)	Hand Installed Only	100	1000	100	10000	
<b>PRT1.5S-C</b>	6.3 (160)				.316 (8.0)	1.50 (38)			100	1000	100	10000	
<b>PRT2S-C</b>	7.4 (188)				.316 (8.0)	1.88 (48)			100	1000	100	10000	
<b>PRT3S-C</b>	11.5 (292)				.337 (8.6)	3.00 (76)			100	1000	100	10000	
<b>PRT4S-C</b>	14.5 (368)				.337 (8.6)	4.00 (102)			100	1000	100	5000	
<b>Heavy Cross Section</b>													
<b>PRT2H-L</b>	8.4 (213)	<b>.300</b> (7.6)	<b>.075</b> (1.9)	<b>.300</b> (7.6)	.480 (12.2)	2.00 (51)	80 (356)	Hand Installed Only	50	500	250	2500	
<b>PRT3H-L</b>	11.4 (290)				.300 (7.6)	3.00 (76)			50	500	250	2500	
<b>PRT4H-L</b>	14.5 (368)				.300 (7.6)	4.00 (102)			50	500	250	2500	

Most commonly used parts appear in **BOLD**.

\*Order the Number of Pieces Required in Multiples of Packaging Quantities.

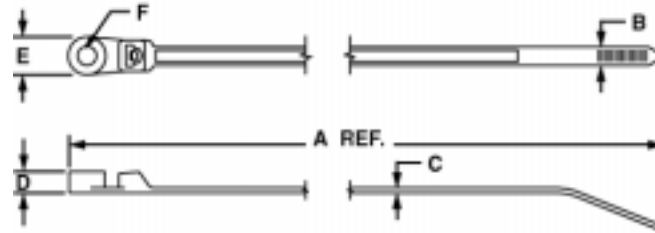
†Part Number shown for Standard Package Quantity. For Bulk Pack Part Numbers, [See Page 40 to 41.](#)

For colors and other materials, [See Page 36 to 39.](#)

# PANDUIT® Nylon 6.6 LockingClamp Ties (PLC Series)

## PAN-TY® Nylon 6.6 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.



Part Number†	Length A In. (mm)	Width B In. (mm)	Thickness C In. (mm)	Boss Height D In. (mm)	Head Width E In. (mm)	Hole Dia. F In. (mm)	Screw Size	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.
<b>Miniature Cross Section</b>														
<b>PLC1M-S4-C</b>	4.3 (110)	.100 (2.5)	.045 (1.2)	.153 (3.9)	.239 (6.1)	.118 (3.0)	#4 (M2.5)	.75 (20)	18 (80)	GS2B, PPTS or STS2	100	1000	1000	50000
<b>Intermediate Cross Section</b>														
<b>PLC1.5I-C</b>	6.1 (156)	.135 (3.4)	.045 (1.2)	.166 (4.2)	.335 (8.5)	.172 (4.4)	#8 (M4)	1.25 (32)	40 (178)	GS2B, PPTS or STS2	100	1000	1000	25000
<b>Standard Cross Section</b>														
<b>PLC2S-S6-C</b>	7.9 (201)	.190 (4.8)	.047 (1.2)	.160 (4.1)	.373 (9.5)	.145 (3.7)	#6 (M3)	1.84 (47)	50 (222)	GS2B, GS4H PPTS, STS2 or STH2	100	1000	1000	10000
<b>PLC2S-S10-C</b>	7.9 (201)		.047 (1.2)	.160 (4.1)		.206 (5.2)	#10 (M5)	1.84 (47)			100	1000	1000	10000
<b>PLC3S-S10-C</b>	12.0 (305)		.052 (1.3)	.220 (5.6)		.206 (5.2)	#10 (M5)	3.00 (76)			100	1000	1000	5000
<b>PLC4S-S10-C</b>	15.0 (381)		.052 (1.3)	.220 (5.6)		.206 (5.2)	#10 (M5)	4.00 (102)			100	1000	1000	5000
<b>Heavy Cross Section</b>														
<b>PLC2H-S25-L</b>	9.0 (228)	.300 (7.6)	.075 (1.9)	.265 (6.7)	.500 (12.7)	.260 (6.6)	1/4 (M6)	2.00 (51)	120 (534)	GS4H, GS4EH PPTEH or STH2	50	500	250	2500
<b>PLC3H-S25-L</b>	12.0 (305)							3.00 (76)			50	500	250	2500
<b>PLC4H-S25-L</b>	15.1 (384)							4.00 (102)			50	500	250	2500

Most commonly used parts appear in **BOLD**.

### For Heavy Duty Vibration and Loading Applications

Tie features reinforcing ribs between tie head and mounting boss that strengthen and stabilize this area of the tie, making it ideal for heavy duty applications.



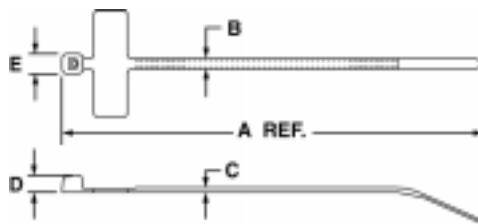
<b>PLCR4H-S25-L</b>	15.1 (384)	.300 (7.6)	.075 (1.9)	.265 (6.7)	.500 (12.7)	.260 (6.6)	1/4 (M6)	4.00 (102)	120 (534)	GS4H, GS4EH, PPTEH, STH2	50	500	250	2500
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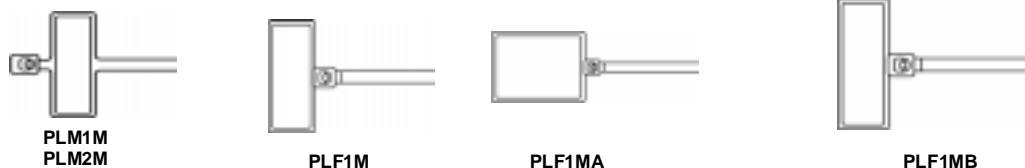
# PANDUIT® Nylon6.6 Marker Ties (PLM Series)

## PAN-TY® Nylon 6.6 Marker Ties

Marker Ties fasten and identify bundles at the same time. They can be marked with **PANDUIT** Marker Pens or you can use Panduit's custom hot stamping service.



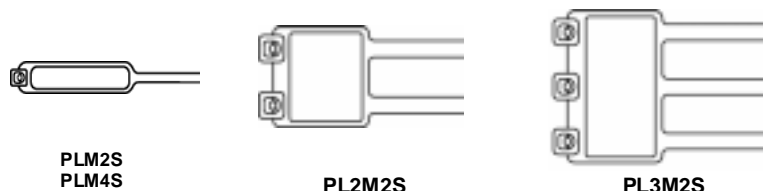
### MINIATURE CROSS SECTION



Part Number†	Length A In. (mm)	Width B In. (mm)	Thickness C In. (mm)	Head Height D In. (mm)	Head Width E In. (mm)	Write-on Area In. (mm)	Max. Bundle Dia. In. (mm)	Min. Loop Tensile Strength Lbs. (N)	Recommended <b>PANDUIT</b> ® Installation Tool Part No.	Packaging*			
										Std. Pkg. Qty.	Std. Ctn. Qty.	Bulk Pkg. Qty.	Bulk Ctn. Qty.
<b>PLM1M-C</b>	3.9 (99)	.098 (2.5)	.035 (.9)	.154 (3.9)	.180 (4.6)	.26 x .95 (6.6 x 24.1)	.75 (20)	18 (80)	GS2B, PPTS or STS2	100	1000	1000	25000
<b>PLM2M-C</b>	8.0 (203)									100	1000	1000	25000
<b>PLF1M-C</b>	4.3 (109)		.31 x .75 (7.9 x 19.1)			.87 (22)	100			1000	1000	25000	
<b>PLF1MA-C</b>	5.1 (130)		.76 x 1.04 (19.1 x 26.4)			.87 (22)	100			1000	1000	10000	
<b>PLF1MB-C</b>	4.0 (102)		.31 x .92 (7.9 x 23.4)			.75 (20)	100			1000	1000	10000	

Most commonly used parts appear in **BOLD**.

### STANDARD CROSS SECTION



<b>PLM2S-C</b>	7.4 (188)	.185 (4.7)	.052 (1.3)	.220 (5.6)	.320 (8.1)	.44 x .87 (11.1 x 22.1)	1.75 (45)	50 (222)	GS2B, GS4H PPTS, STS2 or STH2	100	1000	500	10000
<b>PLM4S-C</b>	14.6 (371)					.44 x 2.00 (11.1 x 50.8)	4.00 (102)			100	1000	500	5000
<b>PL2M2S-L</b>	7.4 (188)					.87 x 1.07 (22.1 x 27.2)	1.75 (45)			50	500	500	2500
<b>PL3M2S-L</b>	7.4 (188)					.87 x 1.79 (22.1 x 45.5)	1.75 (45)			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. Most commonly used parts appear in **BOLD**.

### MARKERS ON REELS (2000 reel - 2 reels/pkg.)

<b>PLM1M-4KR</b>	3.9 (99)	.098 (2.5)	.035 (.9)	.154 (3.9)	.180 (4.6)	.26 x .95 (6.6 x 24.1)	.87 (22)	18 (80)		—	—	4000	—
<b>PLF1MB-4KR</b>	4.0 (102)		.045 (1.1)			.31 x .92 (7.9 x 23.4)	.75 (19)			—	—	4000	—

Custom Hot Stamping Available; [See Page 35.](#)

Marking Pens Available; [See Page 100.](#)

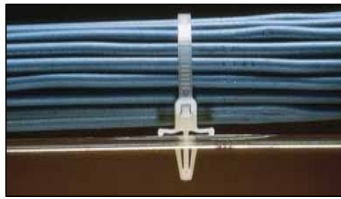
\*Order the Number of Pieces Required in Multiples of Packaging Quantities.

†Part Number shown for Standard Package Quantity. For Bulk Pack Part Numbers, [See Page 40 to Page 41.](#)

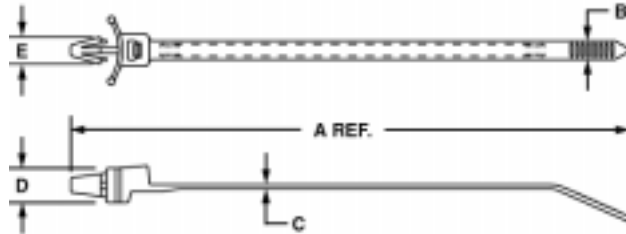
For colors and other materials, [See Page 36 to 39.](#)

# PANDUIT® Nylon 6.6 Winged Push Mount Ties (PLWP Series)

## PAN-TY® Nylon 6.6 Push Mount Ties



Push mount ties are used to attach a bundle to another surface such as a control panel. The mount portion is easily pressed into a pre-drilled hole and locks in place. Push mount tie wings provide constant tension when installed in less than maximum panel thickness creating a stable, secure fixture and rattle-free installation.



### Winged Push Mount Ties

Part Number†	Cross Section	Length A In. (mm)	Width B In. (mm)	Thickness C In. (mm)	Head Height D In. (mm)	Hole Dia. In. (mm)	Max. Panel Thickness 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.						
<b>Style PLWP (locking)</b>																				
<b>PLWP1M-C</b>	Min.	4.3 (109)	.098 (2.5)	.044 (1.1)	.220 (5.6)	.187 (4.7)	.093 (2.4)	.87 (22)	18 (80)	GS2B, PPTS or STS2	100	1000	500	5000						
<b>PLWP1.5I-C</b>	Int.	6.0 (152)	.135 (3.4)	.045 (1.2)	.280 (7.1)	.187 (4.7)	.093 (2.4)	1.25 (32)	40 (177)	GS2B, GS4H, PPTS, STS2 or STH2	100	1000	500	5000						
<b>PLWP1S-C</b>	Std.	5.2 (132)	.190 (4.8)	.052 (1.3)	.370 (9.4)	.252 (6.4)	.105 (2.7)	1.00 (25)	50 (222)		100	1000	500	5000						
<b>PLWP1SA-C</b>		5.1 (130)				.187 (4.7)	.093 (2.4)	1.00 (25)			100	1000	500	5000						
<b>PLWP1SB-D</b>		5.2 (132)				.187 (4.7)	.157 (4.0)	1.00 (25)			—	—	500	5000						
<b>PLWP1.5S-C</b>		6.8 (173)				.252 (6.4)	.105 (2.7)	1.50 (38)			100	1000	500	5000						
<b>PLWP1.5SA-C</b>		6.7 (170)				.187 (4.7)	.093 (2.4)	1.50 (38)			100	1000	500	5000						
<b>PLWP1.5SB-C</b>		6.7 (170)				.187 (4.7)	.157 (4.0)	1.50 (38)			100	1000	500	5000						
<b>PLWP2S-C</b>		7.8 (198)				.252 (6.4)	.105 (2.7)	1.75 (45)			100	1000	500	5000						
<b>PLWP2SA-C</b>		7.7 (196)				.187 (4.7)	.093 (2.4)	1.75 (45)			100	1000	500	5000						
<b>PLWP2SB-D</b>		7.8 (198)				.187 (4.7)	.157 (4.0)	1.75 (45)			—	—	500	5000						
<b>PLWP2H-TL</b>		Hvy.				8.9 (226)	.300 (7.6)	.075 (1.9)			.370 (9.4)	.252 (6.4)	.105 (2.7)	2.00 (51)	120 (534)	GS4H, STH2 PPTHEH	—	—	250	2500
<b>PLWP3H-TL</b>						12.0 (305)								3.00 (76)			—	—	250	2500
<b>Style PRWP (releasable)</b>																				
<b>PRWP1.5I-C</b>	Int.	6.0 (152)	.135 (3.4)	.045 (1.2)	.220 (5.6)	.187 (4.7)	.093 (2.4)	1.25 (32)	40 (177)	Hand Installed only	100	1000	500	5000						
<b>PRWP1S-C</b>	Std.	5.2 (132)	.190 (4.8)	.052 (1.3)	.370 (9.4)	.252 (6.4)	.105 (2.7)	1.00 (25)	50 (222)		100	1000	500	5000						
<b>PRWP1SA-C</b>		5.1 (130)				.187 (4.7)	.093 (2.4)	1.00 (25)			100	1000	500	5000						
<b>PRWP1SB-D</b>		5.2 (132)				.187 (4.7)	.157 (4.0)	1.00 (25)			—	—	500	5000						
<b>PRWP1.5S-C</b>		6.8 (173)				.252 (6.4)	.105 (2.7)	1.50 (38)			100	1000	500	5000						
<b>PRWP1.5SA-D</b>		6.7 (170)				.187 (4.7)	.093 (2.4)	1.50 (38)			—	—	500	5000						
<b>PRWP1.5SB-D</b>		6.8 (173)				.187 (4.7)	.157 (4.0)	1.50 (38)			—	—	500	5000						
<b>PRWP2S-C</b>		7.8 (198)				.252 (6.4)	.105 (2.7)	1.75 (45)			100	1000	500	5000						
<b>PRWP2SA-D</b>		7.7 (196)				.187 (4.7)	.093 (2.4)	1.75 (45)			—	—	500	5000						
<b>PRWP2SB-D</b>		7.8 (198)				.187 (4.7)	.157 (4.0)	1.75 (45)			—	—	500	5000						
<b>PRWP2H-TL</b>		Hvy.				8.9 (226)	.300 (7.6)	.075 (1.9)			.370 (9.4)	.252 (6.4)	.105 (2.7)	2.00 (51)	120 (534)	—	—	250	2500	
<b>PRWP3H-TL</b>						12.0 (305)								3.00 (76)		—	—	250	2500	

Most commonly used parts appear in **BOLD**.

10 \*Order the Number of Pieces Required in Multiples of Packaging Quantities.

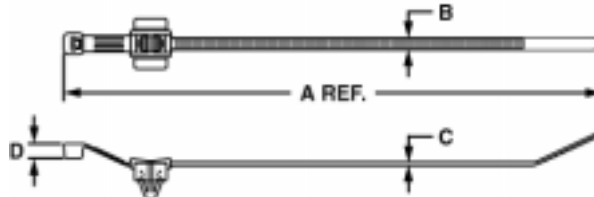
†Part Number shown for Standard Package Quantity. For Bulk Pack Part Numbers, [See Page 40 to 41](#).

For colors and other materials, [See Page 36 to 39](#).

# PANDUIT® Heat Stabilized Nylon 6.6 Push Mount Ties

## PAN-TY® Center Mounted Heat Stabilized Nylon 6.6 Wing Push Mount Ties

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



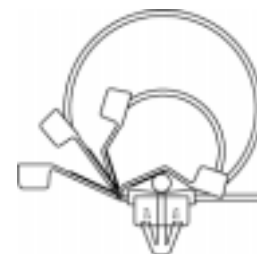
**PLWP30, 40 50SC** winged push-mount cable ties are for normal wire bundles.



**PLWP30, 40, 50SD** winged push-mount cable ties with convoluted tubing bump that prevents lateral and axial movement on convoluted tubing.



**PLWP30, 40, 50SE** winged push-mount cable ties with convoluted tubing bump that prevents lateral movement on convoluted tubing.

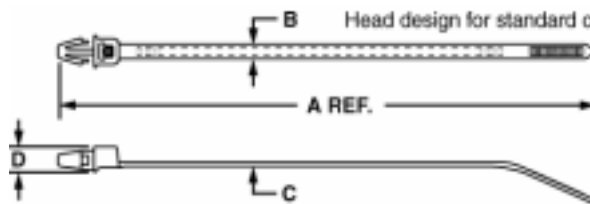


**BUNDLE DIAMETERS** from  
.19" to 1.97"  
(4.8 to 50 mm)

Part Number†	Cross Section	Length A In. (mm)	Width B In. (mm)	Thickness C In. (mm)	Head Height D In. (mm)	Hole Dia. In. (mm)	Panel Thickness 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.
<b>PLWP30SC-D30</b>	Std.	5.8 (147.6)	.19 (4.8)	.050 (1.27)	.220 (5.6)	.283 (7.2)	.118 (3.0)	1.18 (30)	50 (222)	GS2B, GS4H, PPTS, STS2, or STH2	—	—	500	5000
PLWP40SC-D30		7.0 (178.6)									—	—	500	5000
<b>PLWP50SC-D30</b>		8.2 (208.3)									—	—	500	5000
PLWP30SD-D30		5.8 (147.6)									—	—	500	5000
<b>PLWP40SD-D30</b>		7.0 (178.6)									—	—	500	5000
<b>PLWP50SD-D30</b>		8.2 (208.3)									—	—	500	5000
PLWP30SE-D30		5.8 (147.6)									—	—	500	5000
PLWP40SE-D30		7.0 (178.6)									—	—	500	5000
PLWP50SE-D30		8.2 (208.3)									—	—	500	5000

Most commonly used parts appear in **BOLD**.

## PAN-TY® Nylon 6.6 Push Mount Ties Style PLP



Head design for intermediate cross-section ties



**Economical push mount tie style.**

Part Number	Std.	Length A In. (mm)	Width B In. (mm)	Thickness C In. (mm)	Head Height D In. (mm)	Hole Dia. In. (mm)	Panel Thickness In. (mm)	Max. Bundle Dia. In. (mm)	Min. Loop Tensile Strength Lbs. (N)	Recommended PANDUIT® Installation Tool Part No.	Std. Pkg. Qty.	Std. Ctn. Qty.	Bulk Pkg. Qty.	Bulk Ctn. Qty.
<b>PLP1.5I-C</b>	Int.	6.13 (155)	.135 (3.4)	.045 (1.1)	.236 (6.0)	.187 (4.7)	.093 (2.4)	1.25 (31.8)	40 (178)	GS2B, PPTS or STS2	100	1000	1000	25000
PLP1S-C	Std.	5.3 (134)	.180 (4.6)	.050 (1.3)	.354 (9.0)	.250 (6.4)	.125 (3.2)	1.00 (25.4)	50 (222)	GS2B, GS4H PPTS, STS2 or STH2	100	1000	1000	10000
PLP1.5S-C		6.7 (170)						1.50 (38)			100	1000	1000	10000
<b>PLP2S-C</b>		7.87 (199)						1.75 (44.5)			100	1000	1000	10000

Most commonly used parts appear in **BOLD**.

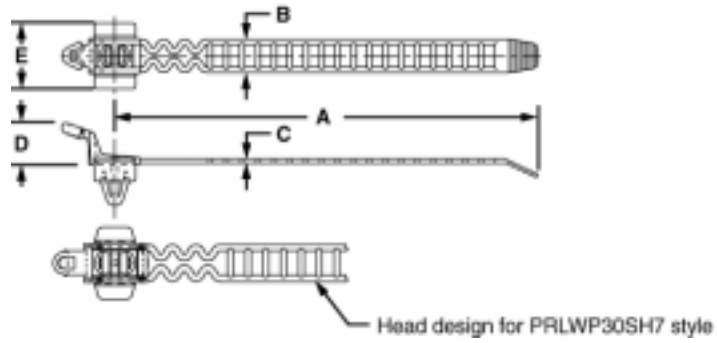
\*Order the Number of Pieces Required in Multiples of Packaging Quantities.

†Part Number shown for PLP parts is Standard Package Quantity. For Bulk Package Part Numbers, [See Page 40 to 41](#). Part Number shown for PLWP parts is Bulk Package Quantity. Releasable styles available—contact factory.

For colors and other materials, [See Page 36 to 39](#).

# PANDUIT® Heat Stabilized Nylon 6.6 Winged Push Mount Ties

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



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

Part Number†	Cross Section	Length A In. (mm)	Width B In. (mm)	Thickness C In. (mm)	Head Height D In. (mm)	Hole Dia. In. (mm)	Panel Thickness 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.
PRLWP30S-C30	Std.	4.7 (120)	.38 (9.7)	.050 (1.3)	.47 (12)	.248 to .264 (6.3 to 6.7)	.118 (3.0)	1.43 (36)	35 (156)	Hand Installed Only	100	5000	500	5000
PRLWP30SH7-D30		.48 (12.2)			—						—	500	5000	
PRLWP50S-C30		7.1 (180)			.47 (12)						100	5000	500	5000

## DOME-TOP® BARB-TY® Cable Ties/PAN-TY® Cable Ties/ Clamp Ties/Marker Ties in Convenient Small Packages

For small jobs where you don't need a standard size package of ties.



Part Number	Type	Cross Section	Length A In. (mm)	Std. Pkg. Qty.	Std. Ctn. Qty.
BT1.5I-Q BT1.5I-Q0	DOME-TOP BARB-TY Cable Ties	Int.	6.1 (155)	25	250
BT2S-Q BT2S-Q0		Std.	8.0 (203)	25	250
BT3S-X BT3S-X0			12.0 (305)	10	100
BT4S-X BT4S-X0			15.1 (384)	10	100
BT4LH-X BT4LH-X0		Lt. Hvy.	14.9 (378)	10	100
IT965-X0		In-Line Cable Ties	Hvy.	10.1 (258)	10
IT9100-X0	14.1 (359)			10	100
PLT.7M-Q	PAN-TY Cable Ties	Min.	3.1 (79)	25	250
PLT1M-Q PLT1M-Q0			3.9 (99)	25	250
PLT1M-Q76			4.0 (102)	25	250
PLT1.5M-Q			5.6 (142)	25	250
PLT2M-Q			8.0 (203)	25	250
PLT1.5I-Q PLT1.5I-Q0			Int.	5.6 (142)	25
PLT2I-Q		8.0 (203)		25	250
PLT3I-X		11.4 (290)		10	100
PLT4I-X		14.6 (371)		10	100
PLT2S-Q PLT2S-Q0		Std.	7.4 (188)	25	250

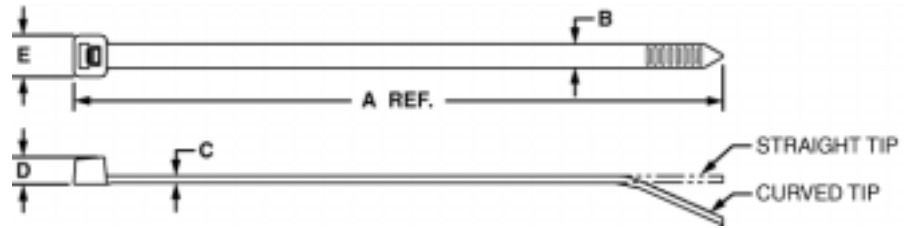
Part Number	Type	Cross Section	Length A In. (mm)	Std. Pkg. Qty.	Std. Ctn. Qty.
PLT2S-Q53	PAN-TY Cable Ties	Std.	7.4 (188)	25	250
PLT2S-Q54				25	250
PLT2S-Q55				25	250
PLT2S-Q59				25	250
PLT2S-X76	PAN-TY Cable Ties	Std.	7.4 (188)	10	100
PLT2S-X702			7.4 (188)	10	100
PLT3S-X			11.5 (292)	10	100
PLT4S-X		Hvy.	14.5 (368)	10	100
PLT4S-X0			14.5 (368)	10	100
PLT4H-X PLT4H-X0			14.5 (368)	10	100
PRT1S-Q	PAN-TY Releasable Cable Ties	Std.	4.8 (122)	25	250
PRT2S-Q			7.4 (188)	25	250
PRT3S-X			11.5 (292)	10	100
PRT4S-X			14.5 (368)	10	100
PRT4H-X			Hvy.	14.5 (368)	10
PLC1M-S4-Q	PAN-TY Clamp Ties	Min.	4.3 (110)	25	250
PLC2S-S10-Q		Std.	7.9 (201)	25	250
PLM1M-Q	PAN-TY Marker Tie	Min.	3.9 (99)	25	250

# PANDUIT® Weather Resistant Cable Ties

## PAN-TY® 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 ([Page 58 to 62](#)) to select proper cable tie material for specific applications.

For Outdoor Use



### SUB-MINIATURE AND 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.
PLT.6SM-C0	2.8 (71)	.070 (1.8)	.030 (.76)	.095 (2.4)	.125 (3.2)	.60 (15)	8 (36)	—	100	1000	1000	50000
PLT1M-C0	3.9 (99)	.098 (2.5)	.043 (1.1)	.154 (3.9)	.180 (4.6)	.87 (22)	18 (80)	GS2B, PPTS or STS2	100	1000	1000	50000
PLT1.5M-C0	5.6 (142)	.098 (2.5)	.043 (1.1)	.154 (3.9)	.180 (4.6)	1.25 (32)	18 (80)		100	1000	1000	50000
PLT2M-C0	8.0 (203)	.098 (2.5)	.043 (1.1)	.154 (3.9)	.180 (4.6)	2.00 (51)	18 (80)		100	1000	1000	25000

### INTERMEDIATE CROSS SECTION



PLT1.5I-C0	5.6 (142)	.142 (3.6)	.045 (1.2)	.180 (4.6)	.240 (6.1)	1.38 (35)	40 (178)	GS2B, PPTS or STS2	100	1000	1000	25000
PLT2I-C0	8.0 (203)	.142 (3.6)	.045 (1.2)		.240 (6.1)	2.00 (51)			100	1000	1000	25000
PLT2.5I-C0	9.7 (248)	.142 (3.6)	.052 (1.3)		.240 (6.1)	2.50 (64)			100	1000	1000	10000
PLT3I-C0	11.4 (290)	.145 (3.7)	.052 (1.3)		.280 (6.6)	3.00 (76)			100	1000	1000	10000
PLT4I-C0	14.6 (371)	.145 (3.7)	.052 (1.3)		.280 (6.6)	4.00 (102)			100	1000	1000	10000

### STANDARD CROSS SECTION



PLT1S-C0	4.8 (122)	.190 (4.8)	.052 (1.3)	.220 (5.6)	.316 (8.0)	1.00 (25)	50 (222)	GS2B, GS4H, PPTS, STS2 or STH2	100	1000	1000	10000
PLT1.5S-C0	6.2 (157)				.316 (8.0)	1.50 (38)			100	1000	1000	10000
PLT2S-C0	7.4 (188)				.316 (8.0)	1.88 (48)			100	1000	1000	10000
PLT2.5S-C0	9.8 (249)				.337 (8.6)	2.50 (64)			100	1000	1000	10000
PLT3S-C0	11.5 (292)				.337 (8.6)	3.00 (76)			100	1000	1000	10000
PLT3.5S-C0	13.0 (330)				.337 (8.6)	3.50 (89)			100	1000	1000	10000
PLT4S-C0	14.5 (368)				.337 (8.6)	4.00 (102)			100	1000	1000	5000
PLT4.5S-C0	15.5 (394)				.337 (8.6)	4.50 (114)			100	1000	1000	5000
PLT5S-C0	17.5 (445)				.337 (8.6)	5.00 (127)			100	500	1000	5000

\*Order the Number of Pieces Required in Multiples of Packaging Quantities.

†Part Number shown for Standard Package Quantity. For Bulk Pack Part Numbers, [See Page 40 to 41.](#)

or colors and other materials, [See Page 36 to 39.](#)  
Most commonly used parts appear in **BOLD**.

# PANDUIT® Weather Resistant Cable Ties

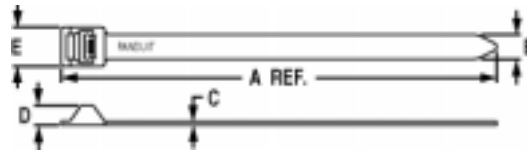
LIGHT HEAVY AND  
HEAVY  
CROSS SECTION



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 <b>PANDUIT</b> ® Installation Tool Part No.	Packaging*				
									Std. Pkg. Qty.	Std. Ctn. Qty.	Bulk Pkg. Qty.	Bulk Ctn. Qty.	
120 Lb. Minimum Loop Tensile													
<b>PLT2H-L0</b>	8.1 (206)	.300 (7.6)	.075 (1.9)	.290 (7.4)	.480 (12.2)	2.00 (51)	120 (534)	GS4H, GS4EH PPTEH or STH2	50	500	250	2500	
PLT2.5H-L0	10.0 (254)			.290 (7.4)					2.50 (64)	50	500	250	2500
<b>PLT3H-L0</b>	11.4 (290)			.290 (7.4)					3.00 (76)	50	500	250	2500
<b>PLT4H-L0</b>	14.5 (368)			.290 (7.4)					4.00 (102)	50	500	250	2500
PLT6LH-L0	21.9 (556)			.325 (8.3)					6.00 (152)	50	500	100	2000
PLT7LH-L0	24.7 (627)			.325 (8.3)					7.00 (178)	50	500	100	2000
PLT8LH-L0	27.6 (701)			.325 (8.3)					8.00 (203)	50	500	100	2000
<b>PLT9LH-L0</b>	30.5 (775)			.325 (8.3)					9.00 (229)	50	500	100	1000
PLT10LH-L0	34.3 (871)			.325 (8.3)					10.31 (262)	50	1000	100	1000
175 Lb. Minimum Loop Tensile													
<b>PLT5H-L0</b>	17.7 (450)	.350 (8.9)	.078 (2.0)	.340 (8.8)	.560 (14.2)	5.00 (127)	175 (778)	GS4H, GS4EH PPTEH or STH2	50	500	250	2500	
<b>PLT6H-L0</b>	20.9 (530)								6.00 (152)	50	500	250	2000
<b>PLT8H-L0</b>	30.6 (779)								9.00 (229)	50	500	100	1000
PLT13H-Q0	43.3 (1100)								13.00 (330)	25	500	100	500

Most commonly used parts appear in **BOLD**.

## PAN-TY® Locking Weather Resistant Nylon Lashing Ties



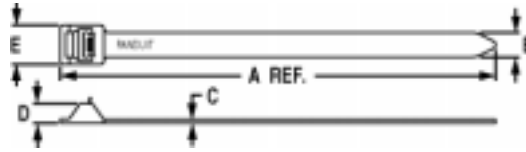
Part Number†	Length A In. (mm)	Width B In. (mm)	Thickness C In. (mm)	Head Height D In. (mm)	Head Width E In. (mm)	Max. Bundle Dia. In. (mm)	Min. Loop Tensile Strength Lbs. (N)	Recommended <b>PANDUIT</b> ® Installation Tool Part No.	Packaging*					
									Std. Pkg. Qty.	Std. Ctn. Qty.	Bulk Pkg. Qty.	Bulk Ctn. Qty.		
Weather Resistant Nylon 6.6 For Outdoor Use - resists ultraviolet light														
<b>PLT2EH-Q0</b>	9.0 (229)	.500 (12.7)	.075 (1.9)	.40 (10.2)	.80 (20.3)	2.0 (51)	250 (1112)	GS4H, GS4EH PPTEH or STH2	25	250	100	1000		
<b>PLT5EH-Q0</b>	20.1 (510)								.075 (1.9)	5.0 (127)	25	250	100	1000
<b>PLT6EH-Q0</b>	22.2 (563)								.075 (1.9)	6.0 (152)	25	250	100	1000
PLT8EH-Q0	28.3 (718)								.085 (2.2)	8.0 (203)	25	250	100	1000
<b>PLT10EH-Q0</b>	34.2 (868)								.085 (2.2)	10.0 (254)	25	250	100	500
PLT12EH-Q0	40.1 (1018)								.085 (2.2)	12.0 (305)	25	250	100	500

Most commonly used parts appear in **BOLD**.



# PANDUIT® Lashing Ties

## PAN-TY® Releasable Weather Resistant Nylon Lashing Ties

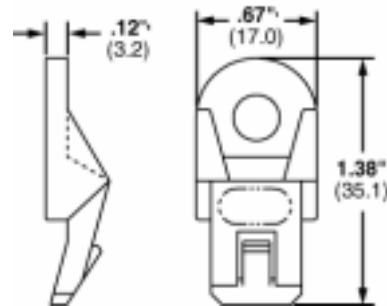


Part Number†	Length A In. (mm)	Width B In. (mm)	Thickness C In. (mm)	Head Height D In. (mm)	Head Width E In. (mm)	Max. Bundle Dia. In. (mm)	Min. Loop Tensile Strength Lbs. (N)	Recommended PANDUIT® Installation Tool Part No.	Packaging*			
									Std. Pkg. Qty.	Std. Ctn. Qty.	Bulk Pkg. Qty.	Bulk Ctn. Qty.
Weather Resistant Nylon 6.6 For Outdoor Use - resists ultraviolet light												
<b>PRT2EH-Q0</b>	9.0 (229)	.500 (12.7)	.075 (1.9)	.40 (10.2)	.80 (20.3)	2.0 (51)	250 (1112)	Hand Installed Only	25	250	100	1000
<b>PRT5EH-Q0</b>	20.1 (510)		.075 (1.9)						25	250	100	1000
<b>PRT6EH-Q0</b>	22.2 (563)		.075 (1.9)						25	250	100	1000
<b>PRT8EH-Q0</b>	28.3 (718)		.085 (2.2)						25	250	100	1000
<b>PRT10EH-Q0</b>	34.2 (868)		.085 (2.2)						25	250	100	500
<b>PRT12EH-Q0</b>	40.1 (1018)		.085 (2.2)						25	250	100	500

Most commonly used parts appear in **BOLD**.

## Lashing Tie Mounting Clip

Converts **PANDUIT PAN-TY** Lashing Ties into clamps. Easily snaps in place for a secure clamp.



Part Number†	Used With Cable Ties	Dimensions Inches (mm)			Material	Color	Where Used	Mounting Method	Packaging*			
		A	B	C					Std. Pkg. Qty.	Std. Ctn. Qty.	Bulk Pkg. Qty.	Bulk Ctn. Qty.
<b>MCEH-S25-C0</b>	Lashing Ties "EH" Cross Section (see pgs. 6, 7, 14 & above)		See drawing		Weather- Resistant Nylon	Black	Outdoors or indoors	1/4" (M6) screw (except flathead)	—	—	100	—

\*Order the Number of Pieces Required in Multiples of Packaging Quantities.

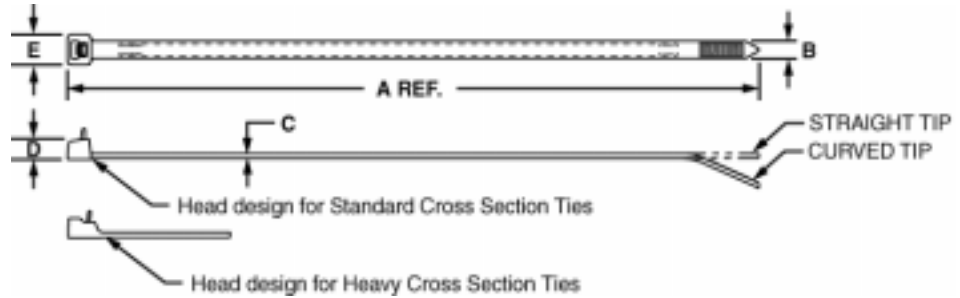
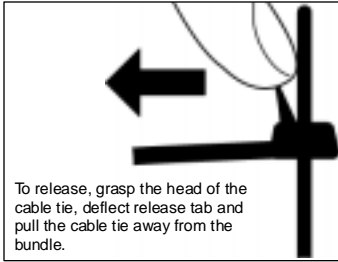
†Part Number shown for Standard Package Quantity. For Bulk Pack Part Numbers, [See Page 40 to 41.](#)

For colors and other materials, [See Page 36 to 39.](#)

# PANDUIT® Weather Resistant Cable Ties

## Releasable Cable Ties (PRT Series)

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 in harnessing where changes are anticipated during development, production or servicing in the field.

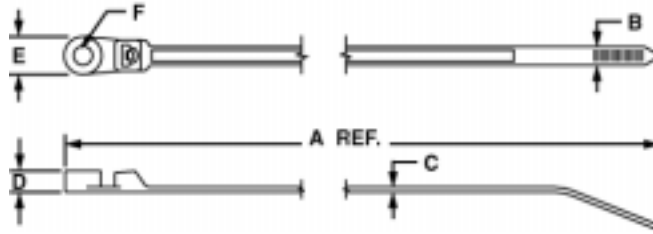


Part Number†	Cross Section	Length A In. (mm)	Width B In. (mm)	Thickness C In. (mm)	Head Height D In. (mm)	Head Width E In. (mm)	Max. Bundle Dia. In. (mm)	Min. Loop Tensile Strength Lbs. (N)	Recommended PANDUIT® Installation Tool Part No.	Packaging*				
										Std. Pkg. Qty.	Std. Ctn. Qty.	Bulk Pkg. Qty.	Bulk Ctn. Qty.	
<b>Standard Cross Section</b>														
PRT1S-C0	Std.	4.8 (122)	.190 (4.8)	.052 (1.3)	.219 (5.6)	.316 (8.0)	1.00 (25)	50 (222)		Hand Installed Only	100	1000	100	10000
PRT1.5S-C0		6.3 (160)				.316 (8.0)	1.50 (38)				100	1000	100	10000
PRT2S-C0		7.4 (188)				.316 (8.0)	1.88 (48)				100	1000	100	10000
PRT3S-C0		11.5 (292)				.337 (8.6)	3.00 (76)				100	1000	100	10000
PRT4S-C0		14.5 (368)				.337 (8.6)	4.00 (102)				100	1000	100	5000
<b>Heavy Cross Section</b>														
PRT2H-L0	Hvy.	8.4 (213)	.300 (7.6)	.075 (1.9)	.300 (7.6)	.480 (12.2)	2.00 (51)	80 (356)		Hand Installed Only	50	500	250	2500
PRT3H-L0		11.4 (290)				.480 (12.2)	3.00 (76)				50	500	250	2500
PRT4H-L0		14.5 (368)				.480 (12.2)	4.00 (102)				50	500	250	2500

# PANDUIT® Weather Resistant Clamp Ties

## PAN-TY® 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.



Part Number†	Length A In. (mm)	Width B In. (mm)	Thickness C In. (mm)	Boss Height D In. (mm)	Head Width E In. (mm)	Hole Dia. F In. (mm)	Screw Size	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.
<b>Miniature Cross Section</b>														
<b>PLC1M-S4-C0</b>	4.3 (110)	.100 (2.5)	.045 (1.2)	.153 (3.9)	.239 (6.1)	.118 (3.0)	#4 (M2.5)	.75 (20)	18 (80)	GS2B, PPTS or STS2	100	1000	1000	50000
<b>Intermediate Cross Section</b>														
<b>PLC1.5I-S8-C0</b>	6.1 (156)	.135 (3.4)	.045 (1.2)	.166 (4.2)	.335 (8.5)	.172 (4.4)	#8 (M4)	1.25 (32)	40 (178)	GS2B, PPTS or STS2	100	1000	1000	25000
<b>Standard Cross Section</b>														
<b>PLC2S-S6-C0</b>	7.9 (201)	.190 (4.8)	.047 (1.2)	.160 (4.1)	.390 (10.0)	.145 (3.7)	#6 (M3)	1.84 (46.7)	50 (222)	GS2B, GS4H PPTS, STS2 or STH2	100	1000	1000	10000
<b>PLC2S-S10-C0</b>	7.9 (201)		.047 (1.2)	.160 (4.1)		.206 (5.2)	#10 (M5)	1.84 (46.7)			100	1000	1000	10000
<b>PLC3S-S10-C0</b>	12.0 (305)		.052 (1.3)	.220 (5.6)		.206 (5.2)	#10 (M5)	3.00 (76)			100	1000	1000	5000
<b>PLC4S-S10-C0</b>	15.0 (381)		.052 (1.3)	.220 (5.6)		.206 (5.2)	#10 (M5)	4.00 (102)			100	1000	1000	5000
<b>Heavy Cross Section</b>														
<b>PLC2H-S25-L0</b>	9.0 (228)	.300 (7.6)	.075 (1.9)	.265 (6.7)	.500 (12.7)	.260 (6.6)	1/4 (M6)	2.00 (51)	120 (534)	GS4H, GS4EH PPTEH or STH2	50	500	250	2500
<b>PLC3H-S25-L0</b>	12.0 (305)							3.00 (76)			50	500	250	2500
<b>PLC4H-S25-L0</b>	15.1 (384)							4.00 (102)			50	500	250	2500

Most commonly used parts appear in **BOLD**.

### For Heavy Duty Vibration and Loading Applications

Tie features reinforcing ribs between tie head and mounting boss that strengthen and stabilize this area of the tie, making it ideal for heavy duty applications.



<b>PLCR4H-S25-L0</b>	15.1 (384)	.300 (7.6)	.075 (1.9)	.265 (6.7)	.500 (12.7)	.260 (6.6)	1/4 (M6)	4.00 (102)	120 (534)	GS4H, GS4EH, PPTEH, STH2	50	500	250	2500
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\*Order the Number of Pieces Required in Multiples of Packaging Quantities.

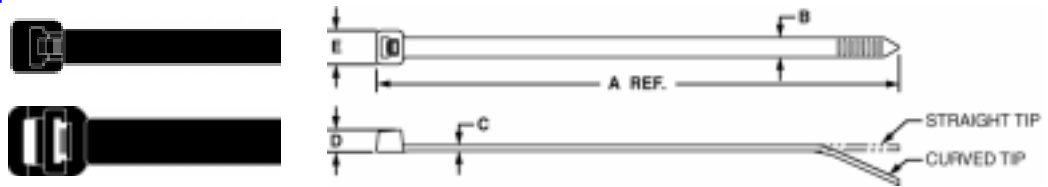
†Part Number shown for Standard Package Quantity. For Bulk Pack Part Numbers, See Page 40 to 41. Part Number shown for Center Mounted Clamp Ties is Bulk Package Quantity.

For colors and other materials, See Page 36 to 39.

# PANDUIT® Polypropylene Cable Ties

## PAN-TY® Weather Resistant Polypropylene Cable Ties for Outdoor Use

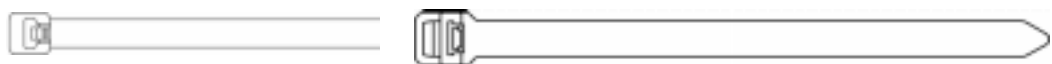
For chemical resistance in outdoor applications that are unsuitable for nylon and that do not require high loop tensile strengths. Color is black.



Part Number†	Cross Section	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.	Tool Setting	Packaging*	
											Bulk Pkg. Qty.	Bulk Ctn. Qty.
PLT1M-M100	Min.	3.9 (99)	.098 (2.5)	.043 (1.1)	.154 (3.9)	.180 (4.6)	.87 (22)	11 (49)	GS2B, PPTS or STS2	2	1000	50000
PLT1.5I-M100	Int.	5.6 (142)	.142 (3.6)	.045 (1.2)	.180 (4.6)	.240 (6.1)	1.38 (35)	18 (80)		3	1000	25000
<b>PLT2S-M100</b>	Std.	7.4 (188)	.190 (4.8)	.052 (1.3)	.220 (5.6)	.316 (8.0)	1.88 (48)	30 (133)	GS2B, GS4H, PPTS, STS2 or STH2	5	1000	10000
<b>PLT3S-M100</b>		3.00 (76)					1000				10000	
PLT4S-M100		4.00 (102)					1000				5000	
PLT2H-TL100	Hvy.	8.4 (213)	.300 (7.6)	.075 (1.9)	.290 (7.4)	.480 (12.2)	2.00 (51)	50 (222)	GS4H, PPTEH or STH2	5	250	2500
PLT3H-TL100		3.00 (76)					250				2500	
<b>PLT4H-TL100</b>		4.00 (102)					250				2500	
PRT2EH-C100	Extra Heavy (Releasable)	9.0 (229)	.500 (12.7)	.075 (1.9)	.40 (10.2)	.80 (20.3)	2.00 (51)	90 (400)	Hand Installed	—	100	1000
<b>PRT5EH-C100</b>		20.1 (510)		.075 (1.9)			5.00 (127)				100	1000
PRT6EH-C100		22.2 (563)		.075 (1.9)			6.00 (152)				100	1000
PRT8EH-C100		28.3 (718)		.085 (2.2)			8.00 (203)				100	1000

## Natural Polypropylene Cable Ties for Indoor Use

For chemical resistance in indoor applications. Can be used in areas where hydrochloric acid, salts and bases are present. Natural polypropylene cable ties have a distinctive green color.

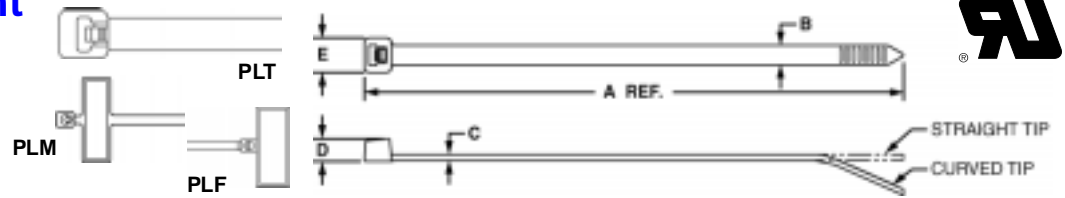


PLT1M-M109	Min.	3.9 (99)	.098 (2.5)	.043 (1.1)	.154 (3.9)	.180 (4.6)	.87 (22)	11 (49)	GS2B, PPTS or STS2	2	1000	50000
PLT1.5I-M109	Int.	5.6 (142)	.142 (3.6)	.045 (1.2)	.180 (4.6)	.240 (6.1)	1.38 (35)	18 (80)		3	1000	25000
<b>PLT2S-M109</b>	Std.	7.4 (188)	.190 (4.8)	.052 (1.3)	.220 (5.6)	.316 (8.0)	1.88 (48)	30 (133)	GS2B, GS4H, PPTS, STS2 or STH2	5	1000	10000
<b>PLT3S-M109</b>		3.00 (76)					1000				10000	
PLT4S-M109		4.00 (102)					1000				5000	
PLT2H-TL109	Hvy.	8.4 (213)	.300 (7.6)	.075 (1.9)	.290 (7.4)	.480 (12.2)	2.00 (51)	50 (222)	GS4H, PPTEH or STH2	5	250	2500
PLT3H-TL109		3.00 (76)					250				2500	
PLT4H-TL109		4.00 (102)					250				2500	
PRT2EH-C109	Extra Heavy (Releasable)	9.0 (229)	.500 (12.7)	.075 (1.9)	.40 (10.2)	.80 (20.3)	2.00 (51)	90 (400)	Hand Installed	—	100	1000
<b>PRT5EH-C109</b>		20.1 (510)		.075 (1.9)			5.00 (127)				100	1000
PRT6EH-C109		22.2 (563)		.075 (1.9)			6.00 (152)				100	1000
PRT8EH-C109		28.3 (718)		.085 (2.2)			8.00 (203)				100	1000

# PANDUIT® Flame Retardant Nylon 6.6 Cable Ties

## PAN-TY® Flame Retardant Nylon 6.6 Cable Ties and Marker Ties

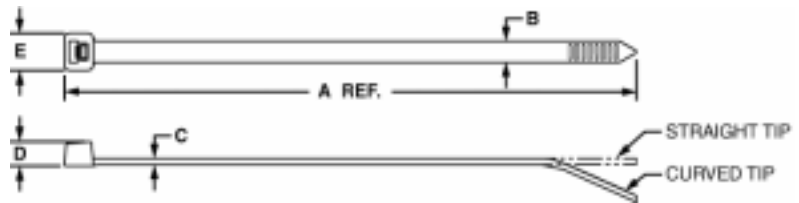
Flame Retardant Nylon 6.6 meets the requirements of U.L. 94V-0. Can be used with flame retardant cable tie mounts. **See Page 84.**



Part Number†	Cross Section	Length A In. (mm)	Width B In. (mm)	Thickness C In. (mm)	Head Height D In. (mm)	Head Width E In. (mm)	Marker Write-on Area In. (mm)	Max. Bundle Dia. In. (mm)	Min. Loop Tensile Strength Lbs. (N)	Recommended PANDUIT® Installation Tool Part No.	Packaging*	
											Bulk Pkg. Qty.	Bulk Ctn. Qty.
Off White Flame Retardant Nylon 6.6												
<b>PLF1M-M69</b>	Min.	4.3 (109)	.098 (2.5)	.045 (1.1)	.154 (3.9)	.180 (4.6)	.31 x .75 (7.9 x 19.1)	.87 (22)	18 (80)	GS2B, PPTS or STS2	1000	25000
<b>PLM1M-M69</b>		3.9 (99)	.098 (2.5)	.035 (.9)	.154 (3.9)	.180 (4.6)	.26 x .95 (6.6 x 24.1)	.75 (20)			1000	25000
<b>PLT1M-M69</b>		4.0 (102)	.098 (2.5)	.043 (1.1)	.154 (3.9)	.188 (4.8)	—	.87 (22)			1000	25000
<b>PLT2M-M69</b>		8.0 (203)	.098 (2.5)	.043 (1.1)	.154 (3.9)	.188 (4.8)	—	2.00 (51)			1000	25000
<b>PLT1.5I-M69</b>	Int.	5.6 (142)	.139 (3.5)	.044 (1.1)	.177 (4.5)	.239 (6.1)	—	1.38 (35)	40 (178)	GS2B, PPTS or STS2	1000	25000
<b>PLT2I-M69</b>		8.0 (203)	.142 (3.6)	.044 (1.1)	.177 (4.5)	.239 (6.1)	—	2.00 (51)			1000	25000
<b>PLT2S-M69</b>	Std.	7.4 (188)	.190 (4.8)	.055 (1.4)	.220 (5.6)	.320 (8.1)	—	1.88 (48)	50 (222)	GS2B, GS4H, PPTS, STS2 or STH2	1000	10000
<b>PLT4S-M69</b>		14.5 (368)	.190 (4.8)	.052 (1.3)	.220 (5.6)	.337 (8.6)	—	4.00 (102)			1000	5000
<b>PLT4H-TL69</b>	Hvy.	14.6 (371)	0.3 (7.6)	.075 (1.9)	.360 (9.1)	.480 (12.2)	—	4.00 (102)	120 (533)	GS4H, GS4EH, PPTHEH or STH2	250	2500
Black Flame Retardant Nylon 6.6												
<b>PLT1M-M60</b>	Min.	4.0 (102)	.098 (2.5)	.043 (1.1)	.154 (3.9)	.188 (4.8)	—	.87 (22)	18 (80)	GS2B, PPTS or STS2	1000	25000
<b>PLT2M-M60</b>		8.0 (203)	.098 (2.5)	.043 (1.1)	.154 (3.9)	.188 (4.8)	—	2.00 (51)			1000	25000
<b>PLT2S-M60</b>	Std.	7.4 (188)	.190 (4.8)	.055 (1.4)	.220 (5.6)	.320 (8.1)	—	1.88 (48)	50 (222)	GS2B, GS4H, PPTS, STS2 or STH2	1000	10000
<b>PLT4S-M60</b>		14.5 (368)	.190 (4.8)	.052 (1.3)	.220 (5.6)	.337 (8.6)	—	4.00 (102)			1000	5000

## PAN-TY® Weather Resistant Nylon 12 Cable Ties

For high moisture, corrosive (zinc chloride and dilute acids) and low temperature indoor or outdoor applications.



Part Number†	Cross Section	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*	
										Bulk Pkg. Qty.	Bulk Ctn. Qty.
<b>PLT1.5I-M120</b>	Min.	5.6 (142)	.142 (3.6)	.045 (1.2)	.180 (4.6)	.240 (6.1)	1.38 (35)	25 (111)	GS2B, PPTS or STS2	1000	25000
<b>PLT2S-M120</b>	Std.	7.4 (188)	.190 (4.8)	.052 (1.3)	.220 (5.6)	.316 (8.0)	1.88 (48)	40 (178)	GS2B, GS4H, PPTS, STS2 or STH2	1000	10000
<b>PLT4S-M120</b>		14.5 (368)	.190 (4.8)	.052 (1.3)	.220 (5.6)	.337 (8.6)	4.00 (102)	40 (178)		1000	5000
<b>PLT4H-TL120</b>	Hvy.	14.5 (368)	.300 (7.6)	.075 (1.9)	.290 (7.4)	.480 (12.2)	4.00 (102)	90 (399)	GS4H, GS4EH, PPTHEH or STH2	250	2500
<b>PLT8LH-C120</b>	Lt. Hvy.	27.6 (701)	.300 (7.6)	.075 (1.9)	.290 (7.4)	.480 (12.2)	8.00 (203)	90 (399)		100	2000

Most commonly used parts appear in **BOLD**.

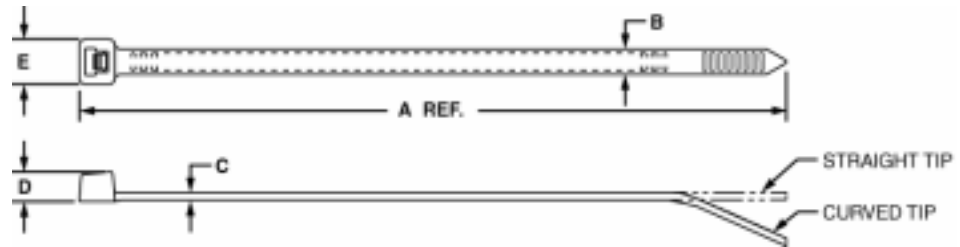
\*Order the Number of Pieces Required in Multiples of Packaging Quantities.

†Part Number shown for Bulk Package Quantity. Most commonly used parts appear in **BOLD**.

# PANDUIT® HALAR<sup>▲</sup> and TEFZEL<sup>■</sup> Cable Ties

## PAN-TY® HALAR Fluoropolymer Cable Ties for Plenum Wiring

HALAR cable ties meet NEC recommendations for bundling qualified cable without conduit in plenum spaces. HALAR cable ties have a low smoke density rating and excellent flammability rating (U.L. 94V-0). Other applications include nuclear plants, chemical environments, telecommunications equipment, aerospace, high and low temperature environments. HALAR cable ties have distinctive maroon color.



Part Number†	Cross Section	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.
<b>PLT1M-C702</b>	Min.	4.0 (102)	.098 (2.5)	.043 (1.1)	.186 (4.7)	.188 (4.8)	.87 (22)	18 (80)	GS2B, PPTS or STS2	100	1000	1000	25000
<b>PLT2S-C702</b>	Std.	7.40 (188)	.190 (4.8)	.055 (1.4)	.240 (6.1)	.320 (8.1)	1.88 (48)	50 (222)	GS2B, GS4H, PPTS, STS2 or STH2	100	1000	1000	10000
<b>PLT3S-C702</b>		11.60 (295)	.190 (4.8)	.059 (1.5)	.240 (6.1)	.320 (8.1)	3.00 (76)			100	1000	1000	5000

Most commonly used parts appear in **BOLD**

## PAN-TY® TEFZEL Fluoropolymer Cable Ties



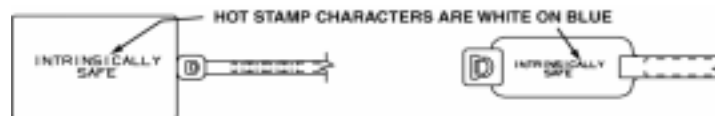
TEFZEL cable ties are ideal for applications requiring resistance to environmental stresses such as chemical attack, gamma radiation, ultraviolet radiation and extreme temperatures. In addition, TEFZEL has a U.L. Flammability rating of UL94V-0. TEFZEL ties have distinctive aqua blue color. TEFZEL cable tie mounts appear on [Page 84](#).

<b>PLT1M-C76</b>	Min.	4.0 (102)	.098 (2.5)	.043 (1.1)	.186 (4.7)	.188 (4.8)	.87 (22)	18 (80)	GS2B, PPTS or STS2	100	1000	1000	25000
PLT2I-C76	Int.	8.0 (203)	.135 (3.4)	.051 (1.3)	.180 (4.6)	.240 (6.1)	2.00 (51)	25 (111)		100	1000	1000	10000
<b>PLT2S-C76</b>	Std.	7.40 (188)	.190 (4.8)	.055 (1.4)	.240 (6.1)	.320 (8.1)	1.88 (48)	50 (222)	GS2B, GS4H PPTS, STS2 or STH2	100	1000	1000	10000
PLT3S-C76		11.60 (295)	.190 (4.8)	.059 (1.5)	.240 (6.1)	.320 (8.1)	3.00 (76)			100	1000	1000	5000
<b>PLT4S-C76</b>		14.60 (371)	.190 (4.8)	.059 (1.5)	.240 (6.1)	.320 (8.1)	4.00 (102)			100	1000	1000	5000
PLT3H-L76	Hvy.	11.50 (292)	.300 (7.6)	.075 (1.9)	.360 (9.1)	.480 (12.2)	3.07 (78)	120 (533)	GS4H, GS4EH PPTHE or STH2	50	500	250	2500
<b>PLT4H-L76</b>		14.60 (371)	.300 (7.6)	.075 (1.9)	.360 (9.1)	.480 (12.2)	4.00 (102)			50	500	250	2500

Most commonly used parts appear in **BOLD**

## PAN-TY® Marker Ties for Intrinsically Safe Wiring

Intrinsically safe wiring is defined as “wiring which is incapable of releasing sufficient electrical or thermal energy to cause ignition of the specific surrounding atmosphere.” The special blue color, which meets IEC standards, indicates that the marked circuits are intrinsically safe.



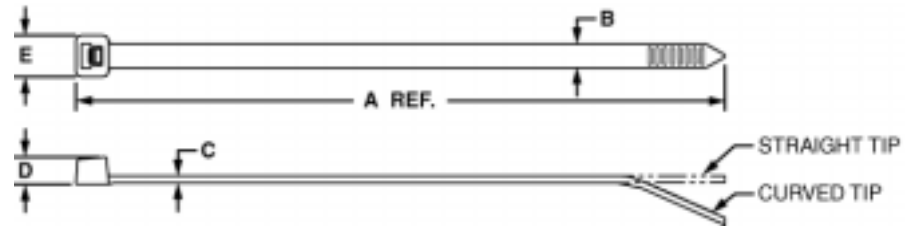
Part Number†	Cross Section	Length A In. (mm)	Width B In. (mm)	Thickness C In. (mm)	Marker Area In. (mm)	Max. Bundle Dia. In. (mm)	Min. Loop Tensile Strength Lbs. (N)	Recommended PANDUIT® Installation Tool Part No.	Packaging*			
									Std. Pkg. Qty.	Std. Ctn. Qty.	Bulk Pkg. Qty.	Bulk Ctn. Qty.
PLF1MA-IB-C6	Min.	5.1 (130)	.098 (2.5)	.045 (1.1)	.812 x 1.12 (20.6 x 28)	.87 (22)	18 (80)	GS2B, PPTS or STS2	100	1000	—	—
PLM2S-IB-C6	Std.	7.4 (188)	.185 (4.7)	.052 (1.3)	.520 x 1.09 (13.2 x 27.7)	1.75 (45)	50 (222)	GS2B, GS4H, PPTS, STS2 or STH2	100	1000	—	—



# PANDUIT® Fluorescent Cable Ties

## PAN-TY® Nylon 6.6 Fluorescent Ties

Designed for packaging and color-coding applications. Ties are offered in four “hot” colors: Orange, Yellow, Green and Pink.



Part Number†	Color	Cross Section	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.
PLT1M-C53	Orange	Min.	3.9 (99)	.10 (2.5)	.098 (2.5)	.154 (3.9)	.180 (4.6)	.87 (22)	18 (80)	STS, GS2B, PPTS	100	1000	1000	50000
PLT1M-C54	Yellow										100	1000	1000	50000
PLT1M-C55	Green										100	1000	1000	50000
PLT1M-C59	Pink										100	1000	1000	50000
PLT2I-C53	Orange	Int.	8.0 (203)	.14 (3.6)	.045 (1.2)	.180 (4.6)	.240 (6.1)	2.00 (51)	40 (178)	STS GS2B, PPTS	100	1000	1000	25000
PLT2I-C54	Yellow										100	1000	1000	25000
PLT2I-C54	Green										100	1000	1000	25000
PLT2I-C59	Pink										100	1000	1000	25000
PLT2S-C53	Orange	Std.	7.4 (188)	.190 (4.8)	.052 (1.3)	.220 (5.6)	.316 (8.0)	1.88 (48)	50 (222)	GS2B, GS4H, PPTS, STS2 or STH2	100	1000	1000	10000
PLT2S-C54	Yellow										100	1000	1000	10000
PLT2S-C55	Green										100	1000	1000	10000
PLT2S-C59	Pink										100	1000	1000	10000
PLT3S-C53	Orange		100	1000	1000	10000								
PLT3S-C54	Yellow		100	1000	1000	10000								
PLT3S-C55	Green		100	1000	1000	10000								
PLT3S-C59	Pink		100	1000	1000	10000								

\*Order the Number of Pieces Required in Multiples of Packaging Quantities.

†Part Number shown for High Density Polyethylene is Bulk Package Quantity.

Part Number shown for Fluorescent parts is Standard Package Quantity. For Bulk Pack Part Numbers, [See Page 40 to 41.](#)

# PANDUIT® DOME-TOP® BARB-TY® Cable Ties

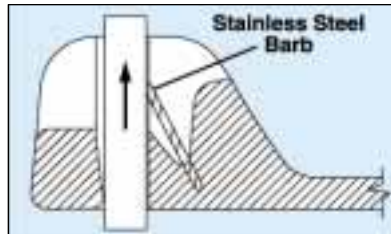
## DOME-TOP® BARB-TY® Cable Tie Features/Benefits

### 1. STAINLESS STEEL BARB



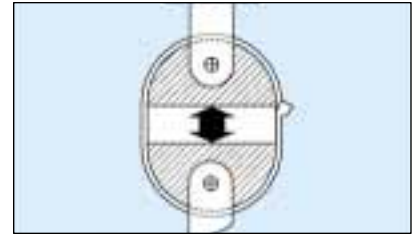
- Made of 316 corrosion resistant stainless steel
- Provides consistent performance and reliability for users who prefer a cable tie with a metal barb
- Infinitely adjustable for tight bundles through its entire bundle range

### 2. LOW THREADING FORCE



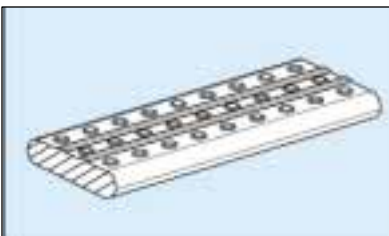
- Reduces installer fatigue
- Increases productivity

### 3. HIGH TENSILE STRENGTH



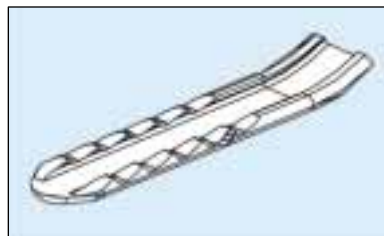
- Exceeds industry and military (MIL-S-23190E) standards
- Available in four loop tensile strengths from 18 lbs. (80N) to 120 lbs. (534N) to provide a wide selection

### 4. ANTI-SLIP STRAP BODY



- Ribbed and stippled strap body prevents axial and lateral movement

### 5. FINGER TIP GRIP



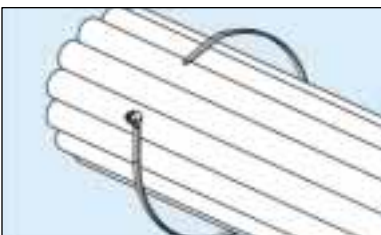
- Exclusively designed finger grip is available on all sizes of **DOME-TOP BARB-TY** Cable Ties to assure positive grip during threading of the tie

### 6. ANTI-SPRING BACK TIP



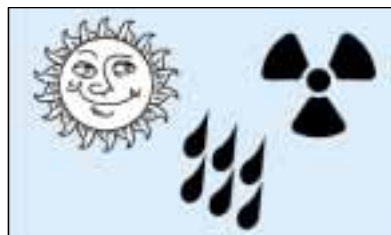
- Tip engages when inserted into head

### 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® DOME-TOP® BARB-TY® Cable Ties

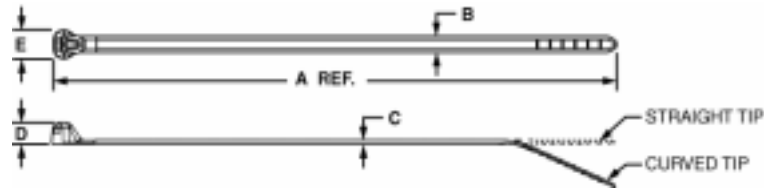
## DOME-TOP® BARB-TY® Nylon 6.6 Locking Cable Ties

- 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

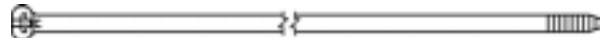


### MINIATURE CROSS SECTION



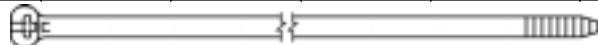
Part Number†	Length A In. (mm)	Width B In. (mm)	Thickness C In. (mm)	Head Height D In. (mm)	Head Width E In. (mm)	Max. Bundle Dia. In. (mm)	Min. Loop Tensile Strength Lbs. (N)	Recommended PANDUIT® Installation Tool Part No.	Packaging*			
									Std. Pkg. Qty.	Std. Ctn. Qty.	Bulk Pkg. Qty.	Bulk Ctn. Qty.
<b>BT1M-C</b>	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
<b>BT1.5M-C</b>	6.3 (160)								100	1000	1000	25000
<b>BT2M-C</b>	7.9 (201)		2.00 (51)		100				1000	1000	25000	
<b>BT3M-C</b>	11.1 (282)		3.00 (76)		100				1000	1000	10000	
<b>BT4M-C</b>	14.2 (361)		4.00 (102)		100				1000	1000	10000	

### INTERMEDIATE CROSS SECTION



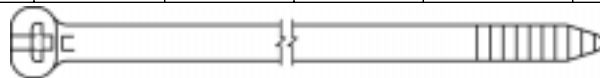
<b>BT1.5I-C</b>	6.1 (155)	.141 (3.6)	.041 (1.0)	.185 (4.7)	.248 (6.3)	1.50 (38)	40 (178)	GS2B, PPTS or STS2	100	1000	1000	25000
<b>BT2I-C</b>	8.0 (203)								2.00 (51)	100	1000	1000
<b>BT3I-C</b>	11.1 (282)		3.00 (76)						100	1000	1000	10000
<b>BT4I-C</b>	14.3 (363)		4.00 (102)						100	1000	1000	10000

### STANDARD CROSS SECTION



<b>BT2S-C</b>	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	
<b>BT3S-C</b>	12.0 (305)		.052 (1.3)						3.00 (76)	100	1000	1000	10000
<b>BT4S-C</b>	15.1 (384)		4.00 (102)						100	1000	1000	5000	

### LIGHT HEAVY CROSS SECTION (Straight Tip)



<b>BT2LH-L</b>	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
<b>BT3LH-L</b>	11.8 (300)					3.00 (76)			50	500	250	2500
<b>BT4LH-L</b>	14.9 (378)					4.00 (102)			50	500	250	2500
<b>BT5LH-L</b>	18.1 (460)					5.00 (127)			50	500	100	2000
<b>BT6LH-L</b>	21.2 (538)					6.00 (152)			50	500	100	2000
<b>BT7LH-L</b>	24.4 (620)					7.00 (178)			50	500	100	2000
<b>BT8LH-L</b>	27.5 (699)					8.00 (203)			50	500	100	1000
<b>BT9LH-L</b>	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 Pack Part Numbers, [See Page 40 to 41.](#)

Most commonly used parts appear in **BOLD**.

For colors and other materials, [See Page 36 to 39.](#)

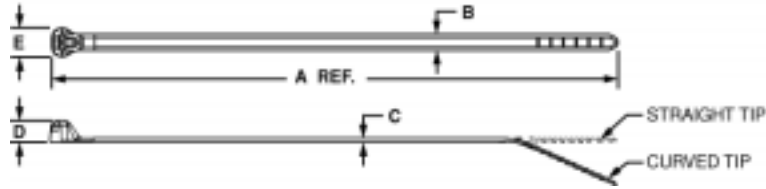
# PANDUIT® Weather Resistant **BARB-TY**® Cable Ties

## **DOME-TOP**® **BARB-TY**® Weather Resistant Nylon Locking Cable Ties

- Available in Miniature, Intermediate, Standard and Light Heavy Cross Section
- Bundle diameters up to 9.00" (229mm)
- Weather resistant nylon has greater resistance to ultra violet light which damages natural nylon
- 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 <b>PANDUIT</b> ® Installation Tool Part No.	Packaging*			
									Std. Pkg. Qty.	Std. Ctn. Qty.	Bulk Pkg. Qty.	Bulk Ctn. Qty.
<b>BT1M-C0</b>	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
<b>BT1.5M-C0</b>	6.3 (160)								100	1000	1000	25000
<b>BT2M-C0</b>	7.9 (201)		100		1000	1000			25000			
<b>BT3M-C0</b>	11.1 (282)		100		1000	1000			10000			
<b>BT4M-C0</b>	14.2 (361)		100		1000	1000			10000			

### INTERMEDIATE CROSS SECTION

<b>BT1.5I-C0</b>	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
<b>BT2I-C0</b>	8.0 (203)								100	1000	1000	25000
<b>BT3I-C0</b>	11.1 (282)		100						1000	1000	10000	
<b>BT4I-C0</b>	14.3 (363)		100						1000	1000	10000	

### STANDARD CROSS SECTION

<b>BT2S-C0</b>	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
<b>BT3S-C0</b>	12.0 (305)								100	1000	1000	10000
<b>BT4S-C0</b>	15.1 (384)		.052 (1.3)						100	1000	1000	5000

### LIGHT HEAVY CROSS SECTION (Straight Tip)

<b>BT2LH-L0</b>	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
<b>BT3LH-L0</b>	11.8 (300)								50	500	250	2500
<b>BT4LH-L0</b>	14.9 (378)								50	500	250	2500
<b>BT5LH-L0</b>	18.1 (460)								50	500	100	2000
<b>BT6LH-L0</b>	21.2 (538)								50	500	100	2000
<b>BT7LH-L0</b>	24.4 (620)								50	500	100	2000
<b>BT8LH-L0</b>	27.5 (699)								50	500	100	1000
<b>BT9LH-L0</b>	30.7 (780)								50	500	100	1000

# PANDUIT® BARB-TY® Heat Stabilized Cable Ties

## DOME-TOP® BARB-TY® Nylon 6.6 Heat Stabilized — Natural (39)

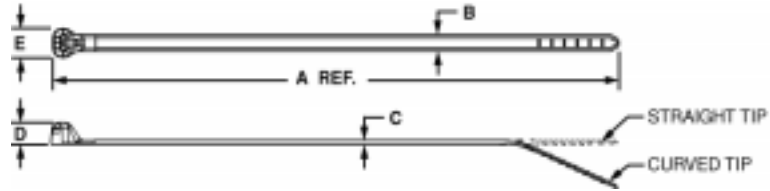
- Available in Miniature, Intermediate, Standard and Light Heavy Cross Section
- Bundle diameters up to 4.00" (102mm)
- Temperature rating: -40°F (-40°C) to 221°F (105°C)
- Tool or hand installed



Side View



Front View

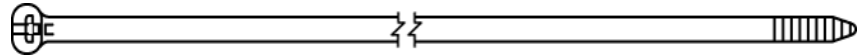


### MINIATURE CROSS SECTION



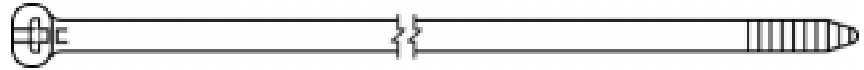
Part Number†	Length A In. (mm)	Width B In. (mm)	Thickness C In. (mm)	Head Height D In. (mm)	Head Width E In. (mm)	Max. Bundle Dia. In. (mm)	Min. Loop Tensile Strength Lbs. (N)	Recommended PANDUIT® Installation Tool Part No.	Packaging*			
									Std. Pkg. Qty.	Std. Ctn. Qty.	Bulk Pkg. Qty.	Bulk Ctn. Qty.
BT1M-C39	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	5000

### INTERMEDIATE CROSS SECTION



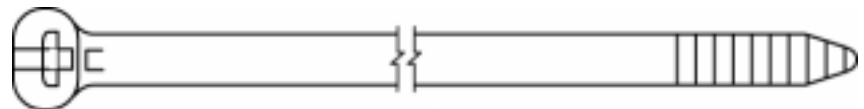
BT1.5I-C39	6.1 (155)	.141 (3.6)	.041 (1.0)	.185 (4.7)	.248 (6.3)	1.50 (38)	40 (178)	GS2B, PPTS or STS2	100	1000	1000	25000
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### STANDARD CROSS SECTION



BT2S-C39	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-C39	12.0 (305)					3.00 (76)			100	1000	1000	10000
BT4S-C39	15.1 (384)					4.00 (102)			100	1000	1000	5000

### LIGHT HEAVY CROSS SECTION (Straight Tip)



BT4LH-L39	14.9 (378)	.275 (7.0)	.065 (1.7)	.320 (8.1)	.520 (13.2)	4.00 (102)	120 (534)	GS4H, GS4EH, PPTEH, STH2, or ST2EH	50	500	250	2500
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\*Order the Number of Pieces Required in Multiples of Packaging Quantities.

†Part Number shown for Standard Package Quantity. For Bulk Pack Part Numbers, [See Page 40 to Page 41.](#)

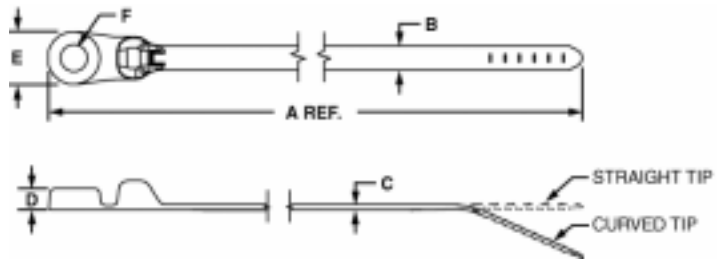
For colors and other materials, [See Page 36 to 39.](#)

# PANDUIT® DOME-TOP® BARB-TY® Clamp Ties

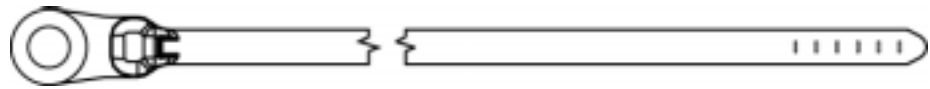
## DOME-TOP® BARB-TY® Nylon 6.6 Clamp Ties



- Used to secure a bundle of wires to another surface such as a control panel, wall or ceiling
- The design allows for bundling before or after screwing clamp in place
- Available in Standard and Light Heavy Cross Section
- Bundle diameters up to 4.00" (102mm)
- Available in natural, weather resistant and heat stabilized black nylon

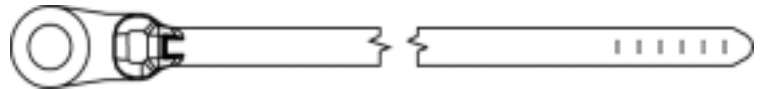


### STANDARD CROSS SECTION



Part Number†	Length A In. (mm)	Width B In. (mm)	Thickness C In. (mm)	Boss Height D In. (mm)	Boss Width E In. (mm)	Hole Dia. F In. (mm)	Screw Size	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.
BC2S-S10-C	8.5 (216)	.185 (4.7)	.052 (1.3)	.160 (4.1)	.400 (10.2)	.206 (5.2)	#10 (M5)	2.00 (51)	50 (222)	GS2B, GS4H, PPTS, STS2 or STH2	100	1000	1000	10000
BC3S-S10-C	12.5 (318)							3.00 (76)			100	1000	1000	10000
BC4S-S10-C	15.6 (396)							4.00 (102)			100	1000	1000	5000

### LIGHT HEAVY CROSS SECTION (Straight Tip)



BC2LH-S25-L	9.3 (236)	.275 (7.0)	.065 (1.7)	.265 (6.7)	.520 (13.2)	.260 (6.6)	1/4 (M8)	2.00 (51)	120 (534)	GS4H, GS4EH, PPTEH, STH2 or ST2EH	50	500	250	2500
BC3LH-S25-L	12.4 (315)							3.00 (76)			50	500	250	2500
BC4LH-S25-L	15.5 (394)							4.00 (102)			50	500	250	2500

## BARB-TY® Weather Resistant

### STANDARD CROSS SECTION



BC2S-S10-C0	8.5 (216)	.185 (4.7)	.052 (1.3)	.160 (4.1)	.400 (10.2)	.206 (5.2)	#10 (M5)	2.00 (51)	50 (222)	GS2B, GS4H, PPTS, STS2 or STH2	100	1000	1000	10000
BC3S-S10-C0	12.5 (318)							3.00 (76)			100	1000	1000	10000
BC4S-S10-C0	15.6 (396)							4.00 (102)			100	1000	1000	5000



### LIGHT HEAVY CROSS SECTION (Straight Tip)

BC2LH-S25-L0	9.3 (236)	.275 (7.0)	.065 (1.7)	.265 (6.7)	.520 (13.2)	.260 (6.6)	1/4 (M8)	2.00 (51)	120 (534)	GS4H, GS4EH, PPTEH, STH2 or ST2EH	50	500	250	2500
BC3LH-S25-L0	12.4 (315)							3.00 (76)			50	500	250	2500
BC4LH-S25-L0	15.5 (394)							4.00 (102)			50	500	250	2500

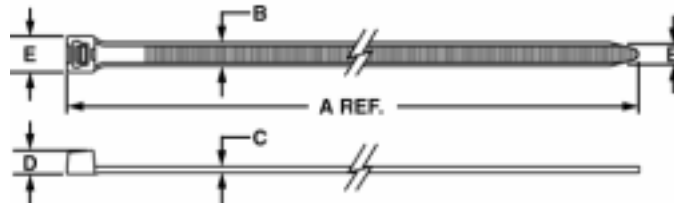


# PANDUIT® SUPERFLEX™ Nylon 6.6 Cable Ties

## SUPERFLEX™ Nylon 6.6 Cable Ties

Featuring the world's  
longest one-piece  
nylon cable tie—58.50"

Lightweight ties are super flexible to conform to bundle. Unique design provides high strength, increased impact resistance and dimensional stability for improved clamping.

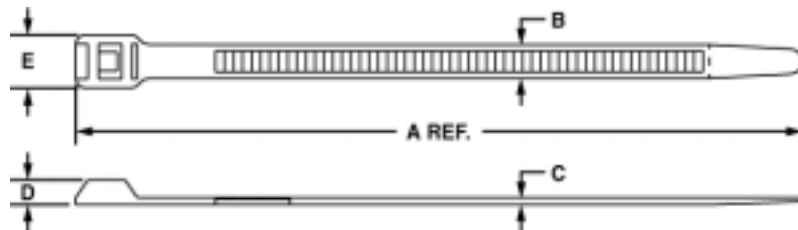


Part Number†	Cross Section	Length A In. (mm)	Width B In. (mm)	Thickness C In. (mm)	Head Height D In. (mm)	Head Width E In. (mm)	Max. Bundle Dia. In. (mm)	Min. Loop Tensile Strength Lbs. (N)	Recommended PANDUIT® Installation Tool Part No.	Packaging*			
										Std. Pkg. Qty.	Std. Ctn. Qty.	Bulk Pkg. Qty.	Bulk Ctn. Qty.
** SLT8LH-L	Lt.	28.00 (711)	.30 (7.6)	.055 (1.4)	.300 (7.6)	.500 (12.7)	8.00 (203)	120 (534)	GS4H or STHV	50	1000	—	—
** SLT10LH-L	Hvy.	34.75 (882)					10.25 (280)			50	1000	—	—
SLT12H-L	Hvy.	40.25 (1022)	.33 (8.3)	.075 (1.9)	.300 (7.6)	.500 (12.7)	12.25 (311)	175 (778)		50	1000	—	—
SLT14H-L		46.00 (1168)					14.25 (362)			50	1000	—	—
SLT16H-L		52.25 (1327)					16.35 (413)			50	1000	—	—
SLT18H-L		58.50 (1486)					18.25 (464)			50	1000	—	—

\*\*Also available in weather resistant 6.6 nylon. Add suffix -0, i.e. SLT8LH-L0 and SLT10LH-L0. Most commonly used parts appear in **BOLD**.

## IN-LINE Nylon 6.6 Cable Ties

**IN-LINE** ties have serrations on the outside which allow the strap body to be inserted parallel to the strap head. Tie conforms to large bundles better than conventional ties. Available in weather resistant 6.6 nylon (-0). May be installed with **PANDUIT** GS4H cable tie installation tools.



Part Number†	Cross Section	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.
IT940-C0	Hvy.	6.8 (172)	.350 (9)	.065 (1.65)	.250 (6.33)	.556 (14.1)	1.57 (40)	124 (550)	GS4H	—	—	100	1000
IT965-C0		10.1 (258)					2.58 (65)			—	—	100	1000
IT9100-C0		14.1 (359)					3.94 (100)			—	—	100	1000
<b>IT9115-C0</b>		15.4 (391)		4.46 (113)			—			—	100	1000	
<b>IT9150-C0</b>		20.4 (518)		5.91 (150)			—			—	100	1000	
IT9250-C0		33.0 (838)		9.84 (250)			—			—	100	1000	

Most commonly used parts appear in **BOLD**.

\*Order the Number of Pieces Required in Multiples of Packaging Quantities.

†Part Number shown for SLT ties is Standard Package Quantity and Part Number shown for In-Line ties is Bulk Package quantity.

# PANDUIT® *IN-LINE* Nylon 6.6 Cable Ties

## *IN-LINE* Nylon 6.6 Cable Ties For Installing Foam Padding On Playground Applications



NOTE: *IN-LINE* Clamp Ties are installed with the teeth on the inside and against the foam.

- Features
  - No protruding head to cause injury since head is inverted
  - No protruding tie tip to cause injury since the tip is trapped between the tie and foam
  - Tie will not slip on the foam since the head will indent the foam to remain captive
  - Wide tie body, .350" (9mm) for improved aesthetics
  - Cannot over-tension tie causing bulges in the foam
  - Easy Installation: No installation tools required
    - Flexible and easy to handle
    - No need to heat weld the ends closed
    - No cutoff scrap pieces to handle or pick up
- Strong: 124 lb. loop tensile strength
- Locking wedge is protected from unlocking and from ultraviolet light exposure
- Available in 13 ultraviolet colors that will last 2 to 3 times longer than normal pigmented colors
- Color coordinated to match foam

Part Number†	Description	Cross Section	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)	Packaging*			
										Std. Pkg. Qty.	Std. Ctn. Qty.	Bulk Pkg. Qty.*	Bulk Ctn. Qty.*
IT9100-CUV2	U.V. Red	Hvy.	14.1 (359)	.350 (9)	.065 (1.65)	.250 (6.33)	.556 (14.1)	3.94 (100)	124 (550)	—	—	100	1000
IT9100-CUV4	U.V. Yellow									—	—	100	1000
IT9100-CUV4A	U.V. Butterscotch									—	—	100	1000
IT9100-CUV5A	U.V. Green									—	—	100	1000
IT9100-CUV5B	U.V. Hunter Green									—	—	100	1000
IT9100-CUV6	U.V. Dark Blue									—	—	100	1000
IT9100-CUV6A	U.V. Light Blue									—	—	100	1000
IT9100-CUV6B	U.V. Cobalt Blue									—	—	100	1000
IT9100-CUV7A	U.V. Purple									—	—	100	1000
IT9100-CUV8	U.V. Silver									—	—	100	1000
IT9100-CUV11	U.V. Teal									—	—	100	1000
IT9100-CUV16B	U.V. Pink									—	—	100	1000
IT9100-C0	U.V. Black									—	—	100	1000

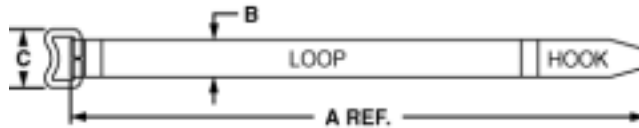
Part Number†	Description	Cross Section	Length A In. (mm)	Width B In. (mm)	Thickness C In. (mm)	Head Height D In. (mm)	Head Width E In. (mm)	Max. Bundle Dia. In. (mm)	Min. Loop Tensile Strength Lbs. (N)	Packaging*			
										Std. Pkg. Qty.	Std. Ctn. Qty.	Bulk Pkg. Qty.*	Bulk Ctn. Qty.*
IT9115-CUV2	U.V. Red	Hvy.	15.4 (391)	.350 (9)	.075 (1.9)	.250 (6.33)	.556 (14.1)	4.46 (113)	124 (550)	—	—	100	1000
IT9115-CUV4	U.V. Yellow									—	—	100	1000
IT9115-CUV4A	U.V. Butterscotch									—	—	100	1000
IT9115-CUV5A	U.V. Green									—	—	100	1000
IT9115-CUV5B	U.V. Hunter Green									—	—	100	1000
IT9115-CUV6	U.V. Dark Blue									—	—	100	1000
IT9115-CUV6A	U.V. Light Blue									—	—	100	1000
IT9115-CUV6B	U.V. Cobalt Blue									—	—	100	1000
IT9115-CUV7A	U.V. Purple									—	—	100	1000
IT9115-CUV8	U.V. Silver									—	—	100	1000
IT9115-CUV11	U.V. Teal									—	—	100	1000
IT9115-CUV16B	U.V. Pink									—	—	100	1000
IT9115-C0	U.V. Black									—	—	100	1000

## TAK-TY™ Cable Ties HLC, HLT, HLM & HLS Series

These handy hook & loop, woven material ties are very easy to release and reuse, making them ideal for applications where changes are anticipated or continuous access is required. These products are also great for applications where over-tightening is a concern and they will not pinch or abrade wires.



### HLC Series



Part Number†	Length A In. (mm)	Width B In. (mm)	Thickness In. (mm)	Head Width C In. (mm)	Min. Bundle Dia. In. (mm)	Max. Bundle Dia. In. (mm)	Min. Loop Tensile Strength** Lbs. (N)	Packaging***			
								Std. Pkg. Qty.	Std. Ctn. Qty.	Bulk Pkg. Qty.	Bulk Ctn. Qty.
<b>Cinching Ties - Cinch ring provides extra strength and bundle tightness</b>											
<b>HLC3S-X0</b>	12.0 (305)	.75 (19)	.10 (2.5)	1.10 (27.9)	2.0 (51)	3.0 (76)	50 (222)	10	100	—	—
<b>HLC5S-X0</b>	18.0 (457)	.75 (19)	.10 (2.5)		3.0 (76)	5.0 (127)		10	100	—	—

Most commonly used parts appear in **BOLD**.

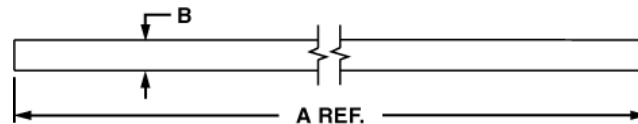
### HLT Series



Part Number†	Length A In. (mm)	Width B In. (mm)	Thickness In. (mm)	Head Width C In. (mm)	Min. Bundle Dia. In. (mm)	Max. Bundle Dia. In. (mm)	Min. Loop Tensile Strength** Lbs. (N)	Packaging***			
								Std. Pkg. Qty.	Std. Ctn. Qty.	Bulk Pkg. Qty.	Bulk Ctn. Qty.
<b>Loop Ties - Slot allows for pre-wrapping of bundles</b>											
<b>HLT2I-X0</b>	8.0 (203)	.50 (12.7)	.10 (2.5)	1.00 (25.4)	.25 (6)	1.9 (48)	40 (178)	10	100	—	—
<b>HLT3I-X0</b>	12.0 (305)	.50 (12.7)	.10 (2.5)		.25 (6)	3.2 (81)		10	100	—	—

Most commonly used parts appear in **BOLD**.

### HLM & HLS Series



<b>Strip Ties - Rolls Perforated in Convenient 6", 12" and 18" strips</b>											
<b>HLS1.5S-X0</b>	6.0 (152)	.75 (19)	.10 (2.5)	—	.25 (6)	1.5 (38)	50 (222)	10	100	—	—
<b>HLS3S-X0</b>	12.0 (305)	.75 (19)	.10 (2.5)	—	.25 (6)	3.2 (81)		10	100	—	—
<b>HLS5S-X0</b>	18.0 (457)	.75 (19)	.10 (2.5)	—	.25 (6)	5.0 (127)		10	100	—	—
<b>15' &amp; 75' Rolls - Can be cut to desired length, eliminating waste</b>											
<b>HLM-15RO</b>	180.0 (4572)	.33 (8.4)	.10 (2.5)	—	.25 (6)	Various	18 (80)	1	10	—	—
<b>HLS-15RO</b>	180.0 (4572)	.75 (19)	.10 (2.5)	—	.25 (6)	Various	50 (222)	1	10	—	—
<b>HLS-75RO</b>	900.0 (22,860)	.75 (19)	.10 (2.5)	—	.25 (6)	Various	50 (222)	1	10	—	—

Most commonly used parts appear in **BOLD**.

### HLM-15RO HLS-15RO HLS-75RO



Color Chart For HLT Ties, HLS Ties, HLM/HLS-15R Rolls & HLS-75R Rolls	
Color	Part No. Suffix
Black	-0
Red	-2
Orange	-3
Yellow	-4
Green	-5
Blue	-6
Violet	-7
Gray	-8
White	-10
Tan	-18

\*\* Minimum 2" overlap required to achieve loop tensile rating.

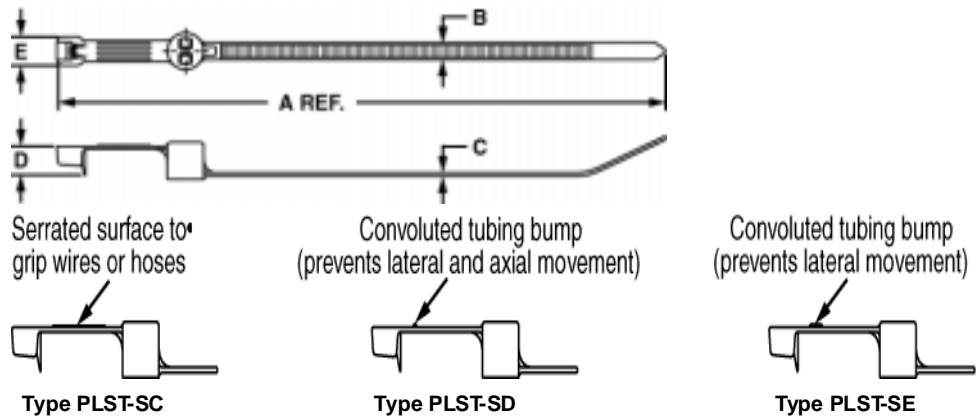
\*\*\*Order the Number of Pieces Required in Multiples of Packaging Quantities.  
†Part Number shown for Standard Package Quantity.

# PANDUIT® Specialty Ties

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

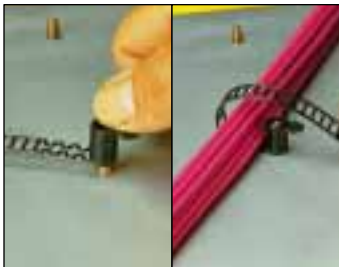


Base portion pushes onto a threaded stud and the tie portion wraps around the bundle. The wire bundle is centered over the stud. Releasable and convoluted tubing styles ([See Page 11](#)) are also available. Contact factory.

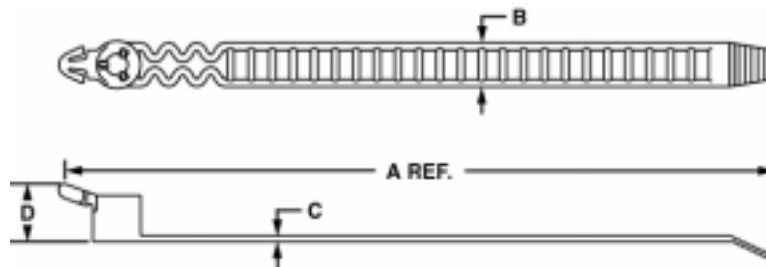


Part Number†	Cross Section	Length A In. (mm)	Width B In. (mm)	Thickness C In. (mm)	Base Height D In. (mm)	Recommended Stud Size In. (mm)	Max. Bundle Dia. In. (mm)	Min. Loop Tensile Strength Lbs. (N)	Recommended PANDUIT® Installation Tool Part No.	Packaging*	
										Bulk Pkg. Qty.	Bulk Ctn. Qty.
<b>Locking Style</b>											
PLST30SC-D30	Std.	5.74 (146)	.19 (4.8)	.050 (1.3)	.41 (10.5)	10-24 (5)	1.18 (30)	50 (222)	GS2B, GS4H, PPTS, STS2 or STH2	500	5000
PLST40SC-D30		6.94 (176)					1.57 (40)			500	5000
PLST50SC-D30		8.14 (207)					1.97 (50)			500	5000

## Ladder Style Stud Mounted Cable Tie Heat Stabilized Nylon 6.6



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



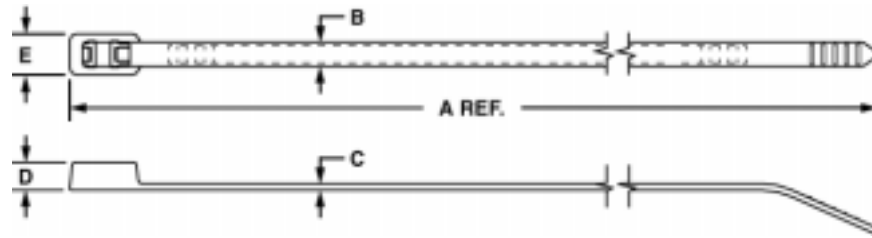
PRST30S-S9-M30	Std.	5.2 (132)	.38 (9.7)	.050 (1.3)	.59 (15)	10-24 x .375 (5 x 9)	1.18 (30)	35 (156)	Hand Installed Only	1000	10000
PRST50S-S9-M30		7.5 (191)					1.97 (50)			1000	5000
PRST30S-S14-M30		5.2 (132)					1.18 (30)			1000	10000
PRST50S-S14-M30		7.5 (191)					1.97 (50)			1000	5000

# PANDUIT® Specialty Ties

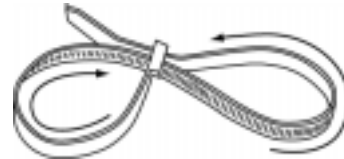
## PANDUIT® Specialty Ties Double Loop Nylon 6.6 Cable Ties



Secure any two bundles up to total diameter of 3.8" (97mm); a fast and economical method for securing a harness and mounting it to another harness, cabinet or other convenient mounting point.



- **PAN-TY**®, one-piece design
- Second loop can be installed with **PANDUIT** cable tie installation tools
- Bent tip provides faster orientation

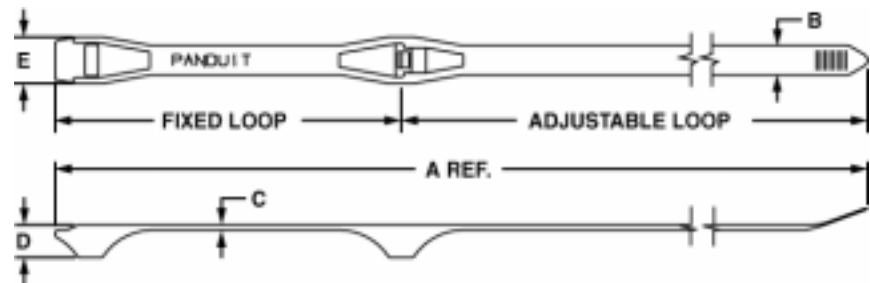


Part Number†	Cross Section	Length A In. (mm)	Width B In. (mm)	Thickness C In. (mm)	Head Height D In. (mm)	Max. Combined Bundle Dia. In. (mm)	Min. Loop Tensile Strength Lbs. (N)	Recommended <b>PANDUIT</b> ® Installation Tool Part No.	Packaging*			
									Std. Pkg. Qty.	Std. Ctn. Qty.	Bulk Pkg. Qty.	Bulk Ctn. Qty.
<b>PLB2S-C</b>	Std.	7.6 (193)	.19 (4.8)	.052 (1.3)	.200 (5.1)	1.8 (46)	50 (222)	GS2B, GS4H, PPTS, STS2 or STH2	100	1000	1000	10000
<b>PLB3S-C</b>		11.8 (300)				100			1000	1000	10000	
<b>PLB4S-C</b>		14.8 (376)				100			1000	1000	5000	

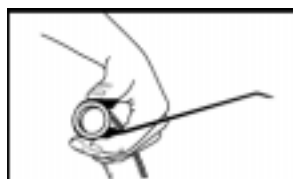
Most commonly used parts appear in **BOLD**.

## 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 A In. (mm)	Width B In. (mm)	Thickness C In. (mm)	Head Height D In. (mm)	Head Width E In. (mm)	Loop Diameters		Min. Loop Tensile Strength Lbs. (N)	Recommended <b>PANDUIT</b> ® Installation Tool Part No.	Packaging*			
						Fixed Loop In. (mm)	Adjustable Loop In. (mm)			Std. Pkg. Qty.	Std. Ctn. Qty.	Bulk Pkg. Qty.	Bulk Ctn. Qty.
<b>DHC1.12x1.75-L0</b>	11.0 (279)	.28 (7.1)	.050 (1.3)	.31 (7.9)	.44 (11.2)	1.12 (28)	1.0 to 1.75 (25 to 44)	100 (445)	GS4H, STH2 or ST2EH	50	500	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 tool.

\*Order the Number of Pieces Required in Multiples of Packaging Quantities.  
 †Part Number shown for PLB and SSB ties is Natural Nylon in Standard Package Quantity.  
 Part Number for DHC is weather resistant black nylon in Standard Package Quantity.

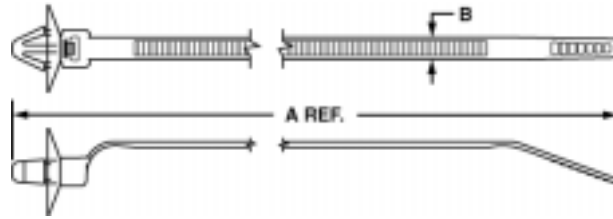
For colors and other materials,  
[See Page 36 to 39.](#)

# PANDUIT® Specialty Ties

## PANDUIT® Specialty Ties Umbrella Winged Push Mount Cable Ties



The tie's anchor barb clicks into a clearance hole in a light gauge metal or plastic panel, no screws or other fasteners required. The umbrella shaped disc stabilizes the anchor barb 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 resin.

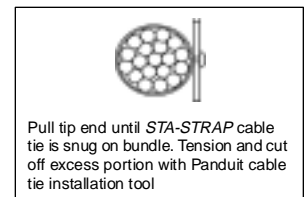
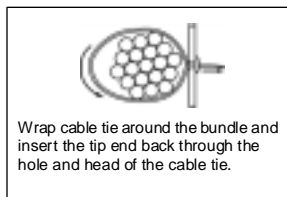
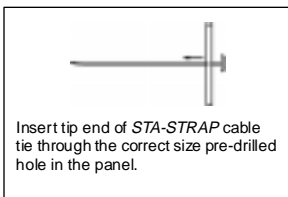
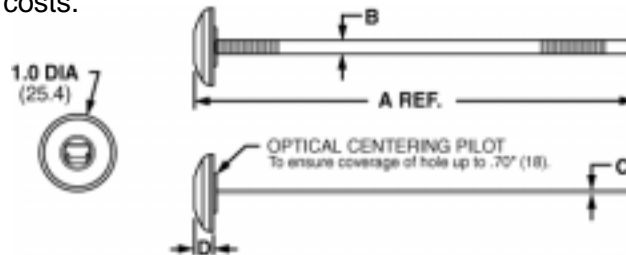


Part Number†	Cross Section	A Length In. (mm)	B Width In. (mm)	Mounting Hole Diameter		Panel Thickness Range		Maximum Bundle Diameter In. (mm)	Min. Loop Tensile Strength Lbs. (N)	Recommended PANDUIT® Installation Tool Part No.	Packaging*	
				Min. In. (mm)	Max. In. (mm)	Min. In. (mm)	Max. In. (mm)				Bulk Pkg. Qty.	Bulk Ctn. Qty.
PLUP30S-D30	Std.	5.79 (147)	0.19 (4.83)	0.24 (6.2)	0.28 (7.2)	0.03 (0.7)	0.05 (1.2)	1.18 (30)	50 (222)	PPTS, GS2B, GS2BL, STS2, GS4H	500	5000
PLUP40S-D30		6.97 (177)						1.57 (40)			500	5000
PLUP50S-D30		8.15 (207)						1.97 (50)			500	5000

## STA-STRAP® Chassis/Panel Mount Tie

Weather resistant heat stabilized nylon 6.6

Unique design of tie allows it to secure a bundle directly to a chassis or panel without the need for separate fasteners or mounting devices, thus reducing costs.



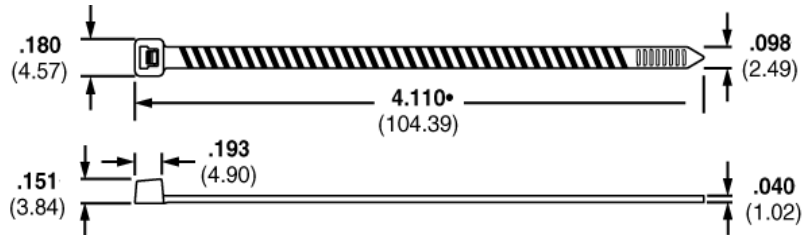
Part Number†	A Length In. (mm)	B Width In. (mm)	C Thickness In. (mm)	D Head Height In. (mm)	Recommended Panel Hole Dia. In. (mm)	Maximum Bundle Diameter In. (mm)	Min. Loop Tensile Strength Lbs. (N)	Recommended PANDUIT® Installation Tool Part No.	Packaging*			
									Std. Pkg. Qty.	Std. Ctn. Qty.	Bulk Pkg. Qty.	Bulk Ctn. Qty.
<b>Without Pilot — Heavy Cross Section</b>												
<b>SSPM2.5H-L300</b>	10.19 (259)	.30 (7.6)	.062 (1.6)	.248 (6.3)	.316 to .820 (8.0 to 21)	2.76 (70)	120 (534)	GS4H, GS4EH, PPTEH, STH2, or ST2EH	50	2500	250	2500
<b>SSPM4H-L300</b>	14.8 (376)								50	2500	250	2500
<b>With Pilot — Heavy Cross Section</b>												
<b>SSPM2.5HP-L300</b>	10.19 (259)	.30 (7.6)	.062 (1.6)	.248 (6.3)	.440 to .820 (11.2 to 21)	2.76 (70)	120 (534)	GS4H, GS4EH, PPTEH, STH2, or ST2EH	50	2500	250	2500
<b>SSPM4HP-L300</b>	14.8 (376)								50	2500	250	2500
<b>With Long Centering Pilot — Heavy Cross Section</b>												
<b>SSPM25HLP-TL300</b>	10.1 (257)	.30 (7.6)	.062 (1.6)	.248 (6.3)	.316 to .820 (8.0 to 21)	2.76 (70)	120 (534)	GS4H, GS4EH, PPTEH, STH2, or ST2EH	—	—	250	2500
<b>SSPM4HLP-TL300</b>	14.8 (376)	.30 (7.6)	.062 (1.6)	.248 (6.3)	.440 to .820 (11.2 to 21)	4.00 (102)			—	—	250	2500



# PANDUIT® Specialty Ties

## PANDUIT® Specialty Ties PAN-POUCH™ Telephone Cable Identification Kit

The **PAN-POUCH** system provides a fast, convenient method of identifying binder groups on both sides of a splice in PIC cable. It consists of striped **PAN-TY**® 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" (20.8mm). Each 50 pc. package fits into **PAN-POUCH** or Pocket Pouch.



### Nylon 6.6 Cable Ties

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

Part Number	Cable Tie Color	Color Stripe	Packaging*	
			Std. Pkg. Qty.	Std. Ctn. Qty.
PLT1M-L6-4	Blue	Yellow	50	1000
PLT1M-L3-4	Orange		50	1000
PLT1M-L5-4	Green		50	1000
PLT1M-L1-4	Brown		50	1000
PLT1M-L8-4	Slate		50	1000
PLT1M-L6-7	Blue	Violet	50	1000
PLT1M-L3-7	Orange		50	1000
PLT1M-L5-7	Green		50	1000
PLT1M-L1-7	Brown		50	1000
PLT1M-L8-7	Slate*		50	1000
PLT1M-L2	Red		50	1000
PLT1M-L0	Black*		50	1000
PLT1M-L4	Yellow*		50	1000
PLT1M-L6	Blue*		50	1000
PLT1M-L3	Orange*		50	1000
PLT1M-L5	Green*		50	1000
PLT1M-L1	Brown*		50	1000
PLT1M-L8	Slate*		50	1000

Cable ties in other solid colors (sold in 100 pc. packages) [See Page 36.](#)

\*Not included in filled **PAN-POUCH**.

### Pouches



**PAN-POUCH** is 10 1/2" x 36" (266mm x 914mm) made of canvas and folds to 10 1/2" x 6" (266mm x 152mm) for easy storage. The pouch can be easily hung from cable by using snap fasteners.



Pocket Pouch holds five (50 pc.) packages.

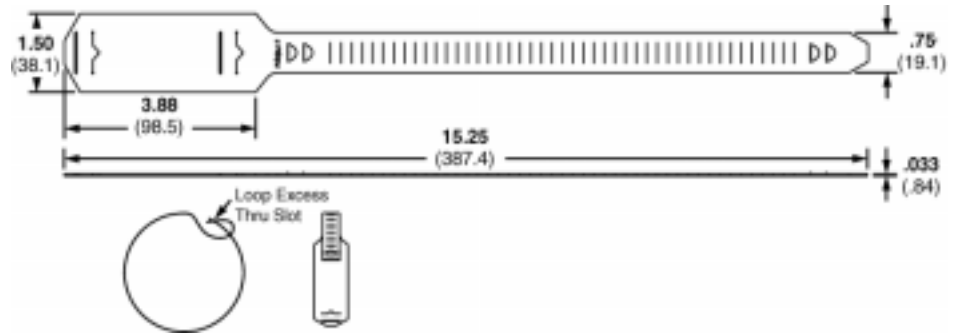
Part Number	Description	Pouch Material	Packaging* Std. Pkg. Qty.
PPC25x50F	<b>PAN-POUCH</b> filled with 1250 cable ties. 50 each of all 24 striped ties plus solid red	Canvas	1
PPC25x50	Empty <b>PAN-POUCH</b>	Canvas	1
PP5x50F	Pocket Pouch filled with 250 cable ties (50 each: Blue, orange, green, brown and slate all with white stripe).	Vinyl	1
PP5x50-X	Empty Pocket Pouch	Vinyl	10

# PANDUIT® Specialty Ties

## PANDUIT® Specialty Ties Polyethylene Cable Marker Strap



For identifying and coding 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 35.](#)



Part Number†	Color	Cross Section	Marking Area In. (mm.)	Max. Bundle Dia. In. (mm)	Recommended PANDUIT® Installation Tool Part No.	Packaging*	
						Std. Pkg. Qty.	Std. Ctn. Qty.
CM4S-L2	Red	Std.	1.50 x 2.62 (38.1 x 66.5)	4.38 (111)	Hand Installed Only	50	500
CM4S-L8	Gray					50	500

Unique design allows strap to be used as:



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



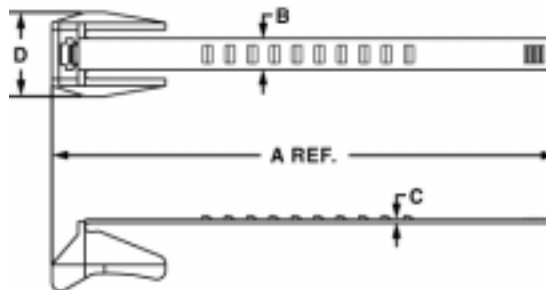
"FLAG" MARKER (Min. Dia.: .25")

## Weather Resistant Polypropylene Aerial Support Tie

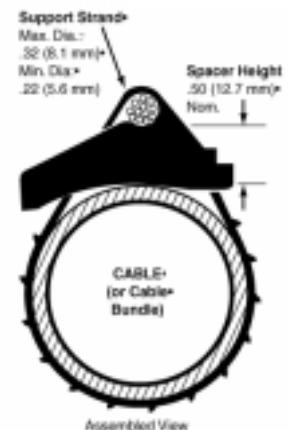
With integral 1/2" spacer



Designed to attach coax or telephone cable to the support strand (1/4" or 5/16") 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.

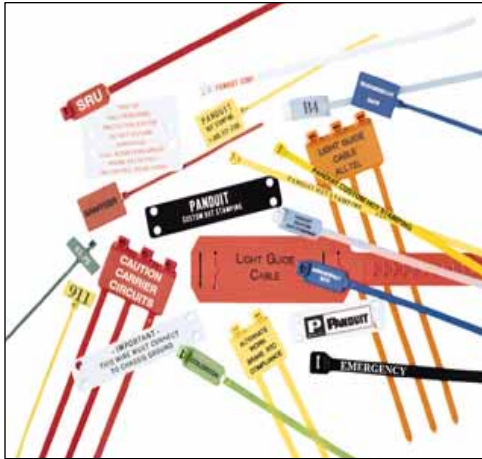


Part Number†	Length A In. (mm)	Width B In. (mm)	Thickness C In. (mm)	Head Width D In. (mm)	Max. Bundle Dia. In. (mm)	Min. Loop Tensile Strength Lbs. (N)	Recommended PANDUIT® Installation Tool Part No.	Packaging*	
								Std. Pkg. Qty.	Std. Ctn. Qty.
AST10-5-C100	5.6 (142)	.448 (11.4)	.055 (1.4)	1.59 (40.4)	1.0 (25)	100 (445)	Hand Installed Only	100	—
AST15-5-C100	6.9 (175)				1.5 (38)			100	—
AST20-5-C100	8.4 (214)				2.0 (51)			100	—
AST25-5-C100	10.0 (254)				2.5 (64)			100	—



# PANDUIT® Custom Hot Stamping

## PANDUIT® Custom Hot Stamping Program



- Economical
- Convenient
- 1/8" (3mm), 3/16" (4.8mm), 5/64" (2mm) & 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
- Six digit sequential numbering is available in 3/32" (2.4mm) or 9/64" (3.6mm) characters
- Seven digit sequential numbering is available in 1/8" (3mm) 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: 1,000 pieces per part number and message

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

### CABLE TIE CROSS SECTIONS

MINIATURE  
(Locking)

INTERMEDIATE  
(Locking)

STANDARD  
(Locking and Releasable)

HEAVY AND LIGHT HEAVY  
(Locking and Releasable)

EXTRA-HEAVY  
(Locking and Releasable)



### MARKER TIE CROSS SECTIONS

MINIATURE  
(Locking)

STANDARD  
(Locking)



**NOTE:**  
Most cable ties and marker ties are also available in colors.

**Contact Your Local Panduit Distributor for Details**

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

## Part Number System

PLT	2	S		C	
<b>Part Description</b> <b>PANDUIT</b> Locking Tie (etc.)	<b>Size</b> (Approximate Bundle Diameter)	<b>Cross-Section</b> SM = Subminiature M = Miniature I = Intermediate S = Standard H = Heavy LH = Light-Heavy EH = Extra-Heavy	<b>Screw Hole Size</b> (Clamp Ties Only) -S4 = #4 (M2.5) -S6 = #6 (M3) -S8 = #8 (M4) -S10 = #10 (M5) -S25 = 1/4" (M6)	<b>Package Size</b> X = 10 Q = 25 L = 50 C = 100 TL = 250 D = 500 M = 1000 MP = 1000 pc. ctn. XMR = 2 reels/5000 ea. DTP = 2 ctns./500 ea. VMR = 2 reels/2500 ea. 4KR = 2 reels/2000 ea. 5K = strips/5000/pkg. 6K = strips/6000/pkg.	<b>Color</b> (See Below) 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*
<b>CABLE TIES</b>	MS3367-1-* MS3367-2-* MS3367-3-* MS3367-4* MS3367-4-* MS3367-5-* MS3367-6-* MS3367-7-*	PLT2S PLT4S PLT4H PLT.7M PLT1M PLT1.5I PLT8LH PLT3S	BT2S BT4S BT4LH — BT1M BT1.5I BT8LH BT3S

\*Color Code

	Current Mil. Std. Part No.*	PAN-TY® Part Number*
<b>MARKER TIES</b>	MS3368-1-*B MS3368-2-*B MS3368-1-*A MS3368-2-*A MS3368-3-*C MS3368-4-*C MS3368-5-*C	— — PLM2S PLM4S PL2M2S PL3M2S PLM1M
<b>TOOLS</b>	MS90387-1 MS90387-1 MS90387-2	GS2B GS2BL 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	POLYPROPYLENE	TEFZEL <sup>®</sup>	HALAR <sup>▲</sup>					
	Color	† Nat.	Black ††	Black ††	† Brown	† Red	† Orange	† Yellow	† Green	† Blue	† Purple	† Gray	White	Telephone 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

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

Shown is availability of cable tie colors & materials by package size. For custom color requirements, contact factory.

S/B = available in Standard and/or Bulk packaging

S = available in Standard packaging

/B = available in Bulk packaging

\* = Contact factory for availability of colors. ([See Page 36](#) for description and suffix)

Part Number	Natural 6.6 Nylon	Colors*	Telephone Gray	Weather Resistant 6.6 Nylon	Weather Resistant 6.6 Nylon Meets MIL Spec.	Heat Stab Black Nat. 6.6 Nylon	Heat Stab Natural 6.6 Nylon	Heat Stab. Weather Resistant 6.6 Nylon	Flame Retard. Black 6.6 Nylon	Flame Retard. 6.6 Nylon	Weather Resistant Nylon 12	Nat. Polyprop	Weather Resistant Polyprop	TEFZEL ■	HALAR ▲
Part Number Suffix Material Designation	—	See Page 36	-14	-0	-00	-30	-39	-300	-60	-69	-120	-109	-100	-76	-702
BC2S-S10	S/B	/B		S/B		/B									
BC3S-S10	S/B	/B		S/B		S/B									
BC4S-S10	S/B	/B		S/B		S/B									
BC2LH-S25	S/B	/B		S/B		S/B									
BC3LH-S25	S/B	/B		S/B		S/B									
BC4LH-S25	S/B	/B		S/B		/B									
BT2S	S/B			S/B		S/B									
BT3S	S/B	S/B	S/B	S/B	S/B	S/B	S/B								
BT4S	S/B	S/B	S/B	S/B	S/B	S/B	S/B								
BT2L.H	S/B	S/B	S/B	S/B	S/B	/B	S/B								
BT3L.H	S/B			S/B		/B									
BT4L.H	S/B			S/B		S/B									
BT5L.H	S/B			S/B	S/B	/B									
BT6L.H	S/B			S/B	S/B	/B	S/B								
BT7L.H	S/B			S/B		/B									
BT8L.H	S/B			S/B	S/B	/B									
BT9L.H	S/B			S/B	S/B	/B									
BT1M	S/B	S/B	S/B	S/B	S/B	S/B									
BT1.5M	S/B	S/B	S/B	S/B	S/B	S/B									
BT2M	S/B	S/B	S/B	S/B	S/B	S/B	S/B								
BT3M	S/B			S/B		S/B									
BT4M	S/B			S/B		S/B									
BT1.5I	S/B		/B	S/B		S/B									
BT2I	S/B	S/B	/B	S/B		/B									
BT3I	S/B	S/B	S/B	S/B	S/B	S/B	S/B								
BT4I	S/B		S/B	S/B		/B									
DHC				S/B											
IT940				/B											
IT965				/B											
IT9100				/B											
IT9115		/B		/B											
IT9150		/B		/B											
IT9250		/B		/B											
PLB2S/PLB3S/PLB4S	S/B			S/B		/B									
PLC1M-S4	S/B			S/B		/B									
PLC1.5I-S8	S/B			S/B		/B									
PLC2H-S25	S/B	/B		S/B		S/B									
PLC2S-S6	S/B	/B		S/B		/B									
PLC2S-S10	S/B			S/B		/B									
PLC3H-S25	S/B			S/B		S/B									
PLC3H-S25	S/B	M6,M20	S	S/B		S/B			/B						
PLC4H-S25	S/B			S/B		/B									
PLCR4H-S25	S/B			S/B		/B									
PLC4S-S10	S/B			S/B		S/B									
PLF1M	S/B	S/B		S/B		/B									
PLF1M-MP	/B	MP3,10		S/B		/B									
PLF1MA	S/B	S/B		S/B		/B			/B						
PLF1MB	S/B	S/B		S/B		/B			/B						
PLM1M	S/B	S/B	/B	S/B	S/B	/B									
PLM1M-MP	/B	MP3,5,10		S/B		/B									
PLM2M	S/B	S/B		S/B		/B			/B						
PLM2S	S/B	S/B		S/B	/B	/B			/B						
PLM4S	S/B	/B		S/B	S/B	/B			/B						
PLP1S	S/B			S/B		/B									
PLP1.5S															
PLP1.5I	S/B			S/B		/B									
PLP2S	S/B			S/B		/B									
PLST30SC/40SC/50SC						/B									
PLST30SD/40SD/50SD						/B									
PLST30SE,40SE,50SE						/B									

# PANDUIT® Cable Tie Color and Material Availability (Continued)

Shown is availability of cable tie colors & materials by package size.  
For custom color requirements, contact factory.

- S/B = available in Standard and/or Bulk packaging
- S = available in Standard packaging
- /B = available in Bulk packaging
- \* = Contact factory for availability of colors. ([See Page 36](#) for description and suffix)

Part Number	Natural 6.6 Nylon	Colors*	Telephone Gray	Weather Resistant 6.6 Nylon	Weather Resistant 6.6 Nylon Meets MIL Spec.	Heat Stab Black Nat. 6.6 Nylon	Heat Stab Natural 6.6 Nylon	Heat Stab. Weather Resistant 6.6 Nylon	Flame Retard. Black 6.6 Nylon	Flame Retard. 6.6 Nylon	Weather Resistant Nylon 12	Nat. Polyprop	Weather Resistant Polyprop	TEFZEL ■	HALAR ▲
<b>Part Number Suffix Material Designation</b>	—	See Page 36	-14	-0	-00	-30	-39	-300	-60	-69	-120	-109	-100	-76	-702
PLT.6SM PLT.7M PLT1M PLT1M-MP PLT1S PLT1.5I PLT1.5I-MP PLT1.5M PLT1.5S	S/B S/B S/B /B S/B S/B /B S/B S/B	/B S/B	S/B	S/B /B S/B S/B	/B S/B S/B	S/B /B S/B		/B /B /B	/B /B	/B	/B	/B	/B	S/B	S/B
PLT2EH PLT2H PLT2I PLT2M PLT2S PLT2S-MP PLT2.5H PLT2.5I PLT2.5S	/B S/B S/B S/B S/B /B S/B S/B S/B	/B *S/B /B S/B	/B S/B	S/B S/B S/B S/B	S/B	/B S/B S/B		/B /B /B	/B /B	/B /B	/B	/B	/B	S/B S/B	S/B
PLT3H PLT3I PLT3S PLT3.5S PLT4H PLT4I PLT4S PLT4.5S	S/B S/B S/B S/B S/B S/B S/B S/B	/B *S/B /B /B /B S/B	S/B /B S/B	S/B S/B S/B S/B	S/B	/B /B S/B S/B		/B /B /B	/B	/B /B	/B	/B	/B	S/B S/B S/B	S/B
PLT5EH PLT5H PLT5S PLT6EH PLT6LH PLT6H PLT7LH PLT8EH PLT8H PLT8LH	S/B S/B S/B S/B S/B S/B /B S/B S/B S/B	/B (-TL4) (-C20) /B (-C20)	/B	S/B S/B S/B S/B S/B S/B	/B S/B	/B /B /B		/B	/B	/B	/B				
PLT9LH PLT10EH PLT10LH PLT12EH PLT13H	S/B /B S/B /B S/B			S/B S/B S/B		/B									
PLWP1M PLWP1S PLWP1SA PLWP1SB PLWP1.5I PLWP1.5S PLWP1.5SA PLWP1.5SB	S/B S/B S/B /B S/B S/B S/B S/B			S/B S/B		/B /B									
PLWP2H PLWP2S PLWP2SA PLWP2SB PLWP3H PL2M2S PL3M2S	/B S/B S/B /B /B S/B S/B	/B /B	/B /B	/B S/B S/B	/B /B	/B /B /B									
PLRWP30S/50S PLWP30SC/40SC/50SC PLWP30SD/40SD/50SD PLWP30SE/40SE/50SE						S/B /B /B /B									



# PANDUIT® Cable Tie Color and Material Availability (Continued)

Shown is availability of cable tie colors & materials by package size.

For custom color requirements, contact factory.

S/B = available in Standard and/or Bulk packaging

S = available in Standard packaging

/B = available in Bulk packaging

\* = Contact factory for availability of colors. ([See Page 36](#) for description and suffix)

Part Number	Natural 6.6 Nylon	Colors*	Telephone Gray	Weather Resistant 6.6 Nylon	Weather Resistant 6.6 Nylon Meets MIL Spec.	Heat Stab Black Nat. 6.6 Nylon	Heat Stab Natural 6.6 Nylon	Heat Stab. Weather Resistant 6.6 Nylon	Flame Retard. Black 6.6 Nylon	Flame Retard. 6.6 Nylon	Weather Resistant Nylon 12	Nat. Polyprop	Weather Resistant Polyprop	TEFZEL ■	HALAR▲
Part Number Suffix Material Designation	—	See Page 36	-14	-0	-00	-30	-39	-300	-60	-69	-120	-109	-100	-76	-702
PRST30SC/30SD/30SE PRST30S-S9/-S14 PRST40SC/40SD/40SE PRST50SC/50SD/50SE PRST50S-S9/-S14						/B /B /B /B /B									
PRT1S PRT1.5S PRT2EH PRT2H PRT2S PRT3H PRT3S PRT4H PRT4S	S/B S/B /B S/B S/B S/B S/B S/B S/B	M2,3,6   /B  (-M20)  /B	     /B	S/B S/B S/B S/B S/B S/B S/B S/B S/B		/B /B  /B /B /B /B						/B        	/B        		
PRT5EH PRT6EH PRT8EH PRT10EH PRT12EH	S/B S/B /B /B /B			S/B S/B S/B S/B S/B								/B /B /B /B	/B /B /B /B		
PRWP1S PRWP1SA PRWP1SB PRWP1.5I PRWP1.5S PRWP1.5SA PRWP1.5SB PRWP2S PRWP2SA PRWP2SB PRWP3H PRWP30SC/40SC/50SC PRWP40SC/40SE/40SD PRWP50SC/50SE/50SD	S/B S/B /B S/B S/B S/B /B /B S/B /B /B /B /B	   (-D20)     (-D20)		/B   S/B /B   /B  /B  /B		/B  S/B /B  /B  /B /B /B /B									
SLT8LH SLT10LH SLT12H SLT14H SLT16H SLT18H	S/ S/ S/ S/ S/ S/			S/ S/											

# PANDUIT® Cable Tie Bulk Packaging

## Bulk Package Part Numbers

The following is an alpha-numeric cross reference of Standard Package Cable Tie parts with the corresponding Bulk Package part numbers. Contact distributor for pricing of bulk package parts.

Standard Part No.	Bulk Part No.
<b>B</b>	
BC2S-S10-C	BC2S-S10-D
BC2S-S10-C0	BC2S-S10-D0
BC3S-S10-C	BC3S-S10-D
BC3S-S10-C0	BC3S-S10-D0
BC4S-S10-C	BC4S-S10-D
BC4S-S10-C0	BC4S-S10-D0
BC2LH-S25-L	BC2LH-S25-TL
BC2LH-S25-L0	BC2LH-S25-TL0
BC3LH-S25-L	BC3LH-S25-TL
BC3LH-S25-L0	BC3LH-S25-TL0
BC4LH-S25-L	BC4LH-S25-TL
BC4LH-S25-L0	BC4LH-S25-TL0
BT1M-C	BT1M-M
BT1M-C0	BT1M-M0
BT1.5M-C	BT1.5M-M
BT1.5M-C0	BT1.5M-M0
BT2M-C	BT2M-M
BT2M-C0	BT2M-M0
BT3M-C	BT3M-M
BT3M-C0	BT3M-M0
BT4M-C	BT4M-M
BT4M-C0	BT4M-M0
BT1.5I-C	BT1.5I-M
BT1.5I-C0	BT1.5I-M0
BT2I-C	BT2I-M
BT2I-C0	BT2I-M0
BT3I-C	BT3I-M
BT3I-C0	BT3I-M0
BT4I-C	BT4I-M
BT4I-C0	BT4I-M0
BT2S-C	BT2S-M
BT2S-C0	BT2S-M0
BT3S-C	BT3S-M
BT3S-C0	BT3S-M0
BT4S-C	BT4S-M
BT4S-C0	BT4S-M0
BT2LH-L	BT2LH-TI
BT2LH-L0	BT2LH-TL0
BT3LH-L	BT3LH-TL
BT3LH-L0	BT3LH-TL0
BT4LH-L	BT4LH-TL
BT4LH-L0	BT4LH-TL0
BT5LH-L	BT5LH-C
BT5LH-L0	BT5LH-C0
BT6LH-L	BT6LH-C
BT6LH-L0	BT6LH-C0
BT7LH-L	BT7LH-C
BT7LH-L0	BT7LH-C0
BT8LH-L	BT8LH-C
BT8LH-L0	BT8LH-C0
BT9LH-L	BT9LH-C
BT9LH-L0	BT9LH-C0
<b>D</b>	
DHC1.12X1.75-L0	DHC1.12X1.75-D0

Standard Part No.	Bulk Part No.
<b>K</b>	
K-200	STD. ONLY
K-205	STD. ONLY
K-501	STD. ONLY
K-503	STD. ONLY
K-504	STD. ONLY
KB-550	STD. ONLY
KP-505	STD. ONLY
KP-506A	STD. ONLY
KP-506A-0	STD. ONLY
KP-509	STD. ONLY
KP-510	STD. ONLY
KP-515	STD. ONLY
<b>P</b>	
PLB2S-C	PLB2S-M
PLB3S-C	PLB3S-M
PLB4S-C	PLB4S-M
PLC1M-S4-C	PLC1M-S4-M
PLC1M-S4-C0	PLC1M-S4-M0
PLC1.5I-S8-C	PLC1.5I-S8-M
PLC1.5I-S8-C0	PLC1.5I-S8-M0
PLC2S-S6-C	PLC2S-S6-M
PLC2S-S6-C0	PLC2S-S6-M0
PLC2S-S10-C	PLC2S-S10-M
PLC2S-S10-C0	PLC2S-S10-M0
PLC2H-S25-L	PLC2H-S25-TL
PLC2H-S25-L0	PLC2H-S25-TL0
PLC3S-S10-C	PLC3S-S10-M
PLC3S-S10-C0	PLC3S-S10-M0
PLC3H-S25-L	PLC3H-S25-TL
PLC3H-S25-L0	PLC3H-S25-TL0
PLC4S-S10-C	PLC4S-S10-M
PLC4S-S10-C0	PLC4S-S10-M0
PLC4H-S25-L	PLC4H-S25-TL
PLC4H-S25-L0	PLC4H-S25-TL0
PLCR4H-S25-L	PLCR4H-S25-TL
PLCR4H-S25-L0	PLCR4H-S25-TL0
PLF1M-C	PLF1M-M, -MP
PLF1MA-C	PLF1MA-M
PLF1MB-C	PLF1MB-M, -4KR
PLM1M-C	PLM1M-M, -MP, -4KR
PLM2M-C	PLM2M-M
PLM2S-C	PLM2S-M
PLM4S-C	PLM4S-M
PLP1S-C	PLP1S-M
PLP1.5I-C	PLP1.5I-M
PLP1.5S-C	PLP1.5S-M
PLP2S-C	PLP2S-M
PLT.6SM-C	PLT.6SM-M
PLT.7M-C	PLT.7M-M
PLT1M-C	PLT1M-M
PLT1M-C0	PLT1M-M0
PLT1M-C53	PLT1M-M53
PLT1M-C54	PLT1M-M54
PLT1M-C55	PLT1M-M55

Standard Part No.	Bulk Part No.
PLT1M-C59	PLT1M-M59
PLT1M-C76	PLT1M-M76
PLT1M-C702	PLT1M-M702
PLT1S-C	PLT1S-M
PLT1S-C0	PLT1S-M0
PLT1.5I-C	PLT1.5I-M
PLT1.5I-C0	PLT1.5I-M0
PLT1.5M-C	PLT1.5M-M
PLT1.5M-C0	PLT1.5M-M0
PLT1.5S-C	PLT1.5S-M
PLT1.5S-C0	PLT1.5S-M0
PLT2EH-Q	PLT2EH-C
PLT2EH-Q0	PLT2EH-C0
PLT2H-L	PLT2H-TL
PLT2H-L0	PLT2H-TL0
PLT2I-C	PLT2I-M
PLT2I-C0	PLT2I-M0
PLT2I-C53	PLT2I-M53
PLT2I-C54	PLT2I-M54
PLT2I-C55	PLT2I-M55
PLT2I-C59	PLT2I-M59
PLT2I-C76	PLT2I-M76
PLT2M-C	PLT2M-M
PLT2M-C0	PLT2M-M0
PLT2S-C	PLT2S-M
PLT2S-C0	PLT2S-M0
PLT2S-C53	PLT2S-M53
PLT2S-C54	PLT2S-M54
PLT2S-C55	PLT2S-M55
PLT2S-C59	PLT2S-M59
PLT2S-C76	PLT2S-M76
PLT2S-C702	PLT2S-M702
PLT2.5I-C	PLT2.5I-M
PLT2.5I-C0	PLT2.5I-M0
PLT2.5S-C	PLT2.5S-M
PLT2.5S-C0	PLT2.5S-M0
PLT2.5H-L	PLT2.5H-TL
PLT2.5H-L0	PLT2.5H-TL0
PLT3H-L	PLT3H-TL
PLT3H-L0	PLT3H-TL0
PLT3H-L76	PLT3H-TL76
PLT3I-C	PLT3I-M
PLT3I-C0	PLT3I-M0
PLT3S-C	PLT3S-M
PLT3S-C0	PLT3S-M0
PLT3S-C53	PLT3S-M53
PLT3S-C54	PLT3S-M54
PLT3S-C55	PLT3S-M55
PLT3S-C59	PLT3S-M59
PLT3S-C76	PLT3S-M76
PLT3S-C702	PLT3S-M702
PLT4H-L	PLT4H-TL
PLT4H-L0	PLT4H-TL0
PLT4H-L76	PLT4H-TL76
PLT4I-C	PLT4I-M

# PANDUIT® Cable Tie Bulk Packaging

## Bulk Package Part Numbers (continued)

The following is an alpha-numeric cross reference of Standard Package Cable Tie parts with the corresponding Bulk Package part numbers. Contact distributor for pricing of bulk package parts.

Standard Part No.	Bulk Part No.
PLT4I-C0	PLT4I-M0
PLT4S-C	PLT4S-M
PLT4S-C0	PLT4S-M0
PLT4S-C76	PLT4S-M76
PLT5EH-Q	PLT5EH-C
PLT5EH-Q0	PLT5EH-C0
PLT5H-L	PLT5H-TL
PLT5H-L0	PLT5H-TL0
PLT5S-C	PLT5S-M
PLT5S-C0	PLT5S-M0
PLT6EH-Q	PLT6EH-C
PLT6EH-Q0	PLT6EH-C0
PLT6H-L	PLT6H-TL
PLT6H-L0	PLT6H-TL0
PLT6LH-L	PLT6LH-TL
PLT6LH-L0	PLT6LH-TL0
PLT7LH-L	PLT7LH-C
PLT7LH-L0	PLT7LH-C0
PLT8EH-Q0	PLT8EH-C0
PLT8H-L	PLT8H-C
PLT8H-L0	PLT8H-C0
PLT8LH-L	PLT8LH-C
PLT8LH-L0	PLT8LH-C0
PLT9LH-L	PLT9LH-C
PLT9LH-L0	PLT9LH-C0
PLT10LH-L	PLT10LH-C
PLT10EH-Q	PLT10EH-C
PLT10EH-Q0	PLT10EH-C0
PLT12EH-Q	PLT12EH-C
PLT13EH-Q	PLT13EH-C
PLT13EH-Q0	PLT13EH-C0
PLWP1M-C	PLWP1M-D
PLWP1S-C	PLWP1S-D
PLWP1SA-C	PLWP1SA-D
PLWP1.5I-C	PLWP1.5I-D
PLWP1.5S-C	PLWP1.5S-D
PLWP1.5SA-C	PLWP1.5SA-D
PLWP1.5SB-C	PLWP1.5SB-D

Standard Part No.	Bulk Part No.
PLWP2S-C	PLWP2S-D
PLWP2SA-C	PLWP2SA-D
PL2M2S-L	PL2M2S-D
PL3M2S-L	PL3M2S-D
PRLWP30S-C30	PRLWP30S-D30
PRLWP50S-C30	PRLWP50S-D30
PRT4S-C	PRT4S-M
PRT1S-C	PRT1S-M
PRT1S-C0	PRT1S-M0
PRT1.5S-C	PRT1.5S-M
PRT1.5S-C0	PRT1.5S-M0
PRT2EH-Q	PRT2EH-C
PRT2EH-Q0	PRT2EH-C0
PRT2H-L	PRT2H-TL
PRT2H-L0	PRT2H-TL0
PRT2S-C	PRT2S-M
PRT2S-C0	PRT2S-M0
PRT3H-L	PRT3H-TL
PRT3H-L0	PRT3H-TL0
PRT3S-C	PRT3S-M
PRT3S-C0	PRT3S-M0
PRT4H-L	PRT4H-TL
PRT4H-L0	PRT4H-TL0
PRT4S-C	PRT4S-M
PRT4S-C0	PRT4S-M0
PRT5EH-Q	PRT5EH-C
PRT5EH-Q0	PRT5EH-C0
PRT6EH-Q	PRT6EH-C
PRT6EH-Q0	PRT6EH-C0
PRT8EH-Q	PRT8EH-C
PRT8EH-Q0	PRT8EH-C0
PRT10EH-Q0	PRT10EH-C0
PRT12EH-Q0	PRT12EH-C0
PRWP1S-C	PRWP1S-D
PRWP1SA-C	PRWP1SA-D
PRWP1.5I-C	PRWP1.5I-D
PRWP1.5S-C	PRWP1.5S-D
PRWP2S-C	PRWP2S-D

# PANDUIT® Cable Tie Kits

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



## KP-509 Designer's Kit



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



## K-205 Cable Ties and Terminal Kit



Part Number	Description	Std. Pkg. Qty.
KP-506A	Contains natural nylon ties for indoor use: (100) PLT1M-C Cable Ties (100) PLT1.5I-C Cable Ties (100) PLT2S-C Cable Ties (50) ABM2S-A Mounts (1) KP-505 Plastic Kit Box	1
KP-506A-0	Contains weather resistant cable ties and mounts for outdoor use: (100) PLT1M-C0 Black Weather Resistant Cable Ties (100) PLT1.5I-C0 Black Weather Resistant Cable Ties (100) PLT2S-C0 Black Weather Resistant Cable Ties (50) ABM2S-AT-0 Black Weather Resistant Mounts (1) KP-505 Plastic Kit Box	1
KP-509	A special collection of cable ties and wiring accessories for prototyping and new product development Contains (over 600 pieces): Including <b>PAN-TY</b> ® Cable Ties (in different styles, sizes, colors and materials); 25 different cable tie mounts; 30 different wiring accessories; (1) KP-510 plastic kit box	1
KB-550	Assortment Pack contains natural and weather resistant <b>PAN-TY</b> nylon cable ties: (15) PLT1M-C Cable Ties (10) PLT1M-C0 Black Weather Resistant Cable Ties (15) PLT1.5I-C Cable Ties (10) PLT1.5I-C0 Black Weather Resistant Cable Ties (15) PLT2S-C Cable Ties (10) PLT2S-C0 Black Weather Resistant Cable Ties (15) PLT3S-C Cable Ties (10) PLT3S-C0 Black Weather Resistant Cable Ties	1
KB-551	Assortment Pack contains natural and weather resistant <b>DOME-TOP</b> ® <b>BARB-TY</b> ® nylon cable ties: (15) BT1M-C Cable Ties (10) BT1M-C0 Black Weather Resistant Cable Ties (15) BT1.5I-C Cable Ties (10) BT1.5I-C0 Black Weather Resistant Cable Ties (15) BT2S-C Cable Ties (10) BT2S-C0 Black Weather Resistant Cable Ties (15) BT3S-C Cable Ties (10) BT3S-C0 Black Weather Resistant Cable Ties	1
K-504	Contains cable ties, adhesive backed mounts and cable tie installation tool: (100) PLT1M-C Cable Ties (100) PLT1.5I-C Cable Ties (100) PLT2S-C Cable Ties (100) PLC2S-S10-C Clamp Ties (100) TM2S8-C Mounts (100) ABM2S-A-C Mounts (1) STS2 Tool (1) K-503 Steel Kit Box	1
SR2	2-Drawer Slide Rack to hold K-504 Kit or K-1100 Series Terminal Kits See Panduit Terminal Catalog, SA101N21A.	1
SR4	4-Drawer Slide Rack to hold K-504 Kit or K-1100 Series Terminal Kits See Panduit Terminal Catalog, SA101N21A.	1
SR6	6-Drawer Slide Rack to hold K-504 Kit or K-1100 Series Terminal Kits See Panduit Terminal Catalog, SA101N21A.	1
SRB	Base accommodates SR2, SR4 and SR6 Slide Racks	1
K-205	Contains 300 cable ties, 600 terminals and 2 installation tools: (100) PLT1M-C Cable Ties (100) PLT1.5I-C Cable Ties (100) PLT2S-C Cable Ties (1) GS2B Cable Tie Installation Tool (100) PV18-6LF-C Terminals (100) PV14-8LF-C Terminals (100) PV14-10LF-C Terminals (50) PV10-10LF-C Terminals (100) BSV18X-C Splices (100) BSV14X-C Splices (50) BSV10X-C Splices (1) CT-100 Crimping Tool (1) K-200 Steel Kit Box	1



# PANDUIT® Cable Tie Installation Tools

## Cable Tie Installation Tools

The PANDUIT Selection. . .

Panduit offers the greatest selection of job-matched tools.



PAT1M/PAT1.5M Automatic Cable Tie Installation Systems



PAT2S Automatic Cable Tie Installation System



PET1M/PET1.5M Portable Automatic Cable Tie Installation Systems



Pneumatic Tool Controlled Tension and Cutoff Tools



Tool Controlled Tension and Cutoff Tools



Operator Controlled Tension and Cutoff Tools

### Choosing the right tool increases productivity. . .

Whatever the need; Original Equipment Manufacturer (high, medium, low volume), maintenance/repair or construction; Panduit 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		
<b>PAT1M/PAT1.5M Systems (Automatic)</b>	Min.	30-40	200,000-1,000,000	Pneumatic/ Electric	High Volume OEM tie usage
<b>PAT2S System (Automatic)</b>	Std.	28-33	200,000-1,000,000		
<b>PET1M/PET1.5M Systems (Automatic)</b>	Min.	25-35	100,000-500,000	Electric	Medium to High Volume OEM tie usage
<b>PPTS</b>	Min., Int. or Std.	5-8	25,000-150,000	Pneumatic	Medium to High Volume OEM tie usage where a variety of tie sizes are needed.
<b>PPTEH</b>	Lt. Hvy., Hvy. or Ex. Hvy.				
<b>GS2B/GS2BL</b>	Min., Int. or Std.	4-6	Under 50,000	Hand	Low to Medium Volume OEM tie usage, maintenance/repair or construction
<b>GS4H</b>	Std. Lt. Hvy. or Hvy.				
<b>GS4H/B</b>	Lt. Hvy. or Hvy.				
<b>GS4H121W</b>	Lt. Hvy. or Hvy.				
<b>GS4EH</b>	Lt. Hvy., Hvy. or Ex. Hvy.				
<b>STS2</b>	Min., Int. or Std.	1-4	Under 10,000	Hand	Maintenance/repair or construction
<b>STH2</b>	Std., Lt. Hvy. or Hvy.				
<b>ST2EH</b>	Lt. Hvy., Hvy. or Ex. Hvy.				
<b>STHV</b>	Lt. Hvy. or Hvy.				



# **PANDUIT® Fully Automatic Cable Tie Installation Systems**

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## **Automatic Cable Tie Installation Systems**

*PANDUIT* automatic tooling makes everything else obsolete. With the squeeze of a trigger, it applies, tensions, and cuts off the excess cable tie—*all in less than 1 second*. Automatic tooling will reduce your labor costs, minimize your total installed cost.

There are three tool systems to meet your needs:

---

### **1. PAT1M/PAT1.5M — Automatic Cable Tie Installation Systems (*Pages 46 & 48*) (Stationary Dispenser)**

Installs Miniature Cross Section Cable Ties (18 lb. (80N) minimum loop tensile)

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### **2. PAT2S — Automatic Cable Tie Installation System (*Pages 47 & 48*) (Stationary Dispenser)**

Installs Standard Cross Section Cable Ties (50 lb. (222N) minimum loop tensile)

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### **3. PET1M/PET1.5M — Automatic Electric Cable Tie Installation Systems (*Pages 50 & 51*) (Portable Hand Held Tool)**

Installs Miniature Cross Section Cable Ties (18 lb. (80N) minimum loop tensile)

# PANDUIT® Fully Automatic Cable Tie Installation Systems

## 1. PAT1M/PAT1.5M Reel-Fed Systems for Miniature Cross Section Cable Ties (18 lb. (80N) minimum loop tensile)



- The system consists of the tool, dispenser, feeder hose and reel-fed continuously molded 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" (21mm) 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. non-lubricated, filtered air and 100 VAC, 120 VAC and 230 VAC.
- Optional bench mount shown on [Page 48](#).

### Tool Heads



Part Number	Description	Pkg. Qty.
PAT1M	Tool head for cable ties up to .82" (21mm) bundle diameter (PLT1M-XMR)	1
PAT1.5M	Tool head for cable ties up to 1.3" (33mm) bundle diameter (PLT1.5M-XMR)	1
	<ul style="list-style-type: none"> <li>• Lightweight, no counter-balance required</li> <li>• Slim, ergonomically designed handle for operator comfort and greater productivity. Reduces potential for repetitive motion injuries</li> <li>• Right or left hand operation</li> <li>• Durable, one-piece cable tie tip collector (for cut-off tips)</li> <li>• Includes tension adjustment</li> </ul>	

### Dispenser



PDM	Stationary dispenser for 100 VAC, 120 VAC and 230 VAC	1												
	<ul style="list-style-type: none"> <li>• The dispenser monitors performance. If an error occurs an alarm is sounded</li> <li>• On-line HELP menu</li> <li>• Multi-language capability via LCD display (English, Spanish, German, Italian or French)</li> <li>• Cable tie reels are easily loaded into the dispenser, reducing downtime</li> <li>• Audible reload signal when reel is empty</li> <li>• Minimum maintenance required</li> <li>• Power cord included</li> </ul>													
	<table border="1"> <thead> <tr> <th colspan="2">Specifications</th> </tr> <tr> <th>Pneumatic</th> <th>Electrical</th> </tr> </thead> <tbody> <tr> <td>• Operates at 65 psig minimum</td> <td>• 100, 120, or 230 VAC</td> </tr> <tr> <td>• 7 scfm flow minimum</td> <td>• 50/60 Hz.</td> </tr> <tr> <td>• Operates on non-lubricated air.</td> <td>• Less than 1 amp</td> </tr> <tr> <td></td> <td>• Approx. 20 watts (AVG)</td> </tr> </tbody> </table>	Specifications		Pneumatic	Electrical	• Operates at 65 psig minimum	• 100, 120, or 230 VAC	• 7 scfm flow minimum	• 50/60 Hz.	• Operates on non-lubricated air.	• Less than 1 amp		• Approx. 20 watts (AVG)	
Specifications														
Pneumatic	Electrical													
• Operates at 65 psig minimum	• 100, 120, or 230 VAC													
• 7 scfm flow minimum	• 50/60 Hz.													
• Operates on non-lubricated air.	• Less than 1 amp													
	• Approx. 20 watts (AVG)													

### Feeder Hose



(choose one)

PHM1	3.2 ft. (1 meter) Feeder hose	1
PHM2	6.5 ft. (2 meter) Feeder hose	1
PHM3	9.8 ft. (3 meter) Feeder hose	1
	<ul style="list-style-type: none"> <li>• Transfers cable ties and signal from dispenser to tool</li> <li>• Available in three lengths for either tool head</li> <li>• Reversible</li> <li>• Large electrical connectors, quick &amp; easy connections</li> </ul>	

### Other Components



PDH10-37	Main air supply hose (regulator to dispenser). 9.8 ft. (3m). Includes a 3/8" NPT male thread (to regulator) and 3/8" female quick-disconnect (to dispenser)	1
PL283N1	Filter/regulator 25 micron (max.) element, 5 psi (max.) pressure drop @ 85 psig inlet pressure and 16 cfm flow @ 85 psig; 3/8" ports	1

# PANDUIT® Automatic Cable Tie Installation Systems

## 2. PAT2S Reel-Fed System for Standard Cross Section Cable Ties (50 lb. (222N) minimum loop tensile)



**Automatically installs cable ties on bundles of up to 2" (51mm) in diameter.**

- The system consists of the tool, dispenser, dispenser frame, feeder hose and reel-fed continuously molded cable ties (2500 ties per reel).
- The PAT2S System installs PLT2S-VMR continuously molded cable ties in approximately 1 second. Reload time is minimized by large reels of 2500 ties per reel.
- Ability to increase the tension of the cable ties provides greater resistance to lateral movement.
- High cable tie loop tensile strength of 50 lbs. (222N) minimum.

### Tool Head



Part Number	Description	Pkg. Qty.
PAT2S	Tool head for cable ties up to 2" (51mm) bundle diameter (PLT2S-VMR) <ul style="list-style-type: none"> <li>• Open jaw design</li> <li>• 1 trigger operation</li> <li>• Right or left hand operation</li> <li>• Tension adjustments are made without special tools</li> <li>• Minimum maintenance required</li> <li>• Operates in any orientation</li> <li>• Tip collector included</li> <li>• Lightweight counter balance optional</li> </ul>	1

### Dispenser



PDS	Dispenser with Electronic Display <ul style="list-style-type: none"> <li>• Cable tie reels are easily loaded into the dispenser, reducing downtime</li> <li>• Audible reload signal when reel is empty</li> <li>• LCD messages in 5 languages (English, French, German, Italian, Spanish)</li> <li>• Power cord included</li> <li>• Auto adjust for various domestic and international voltages</li> </ul> <div style="border: 1px solid black; padding: 5px; margin-top: 10px;"> <p style="text-align: center;"><b>Specifications</b></p> <table style="width: 100%; border-collapse: collapse;"> <tr> <td style="width: 50%; vertical-align: top;"> <b>Pneumatic</b> <ul style="list-style-type: none"> <li>• Operates at 65 psig.</li> <li>• 7 scfm flow</li> <li>• Operates on non-lubricated air.</li> </ul> </td> <td style="width: 50%; vertical-align: top;"> <b>Electrical</b> <ul style="list-style-type: none"> <li>• 100, 115, 220, or 240 VAC</li> <li>• 50/60 Hz.</li> <li>• Approx. 100 watts (AVG)</li> </ul> </td> </tr> </table> </div>	<b>Pneumatic</b> <ul style="list-style-type: none"> <li>• Operates at 65 psig.</li> <li>• 7 scfm flow</li> <li>• Operates on non-lubricated air.</li> </ul>	<b>Electrical</b> <ul style="list-style-type: none"> <li>• 100, 115, 220, or 240 VAC</li> <li>• 50/60 Hz.</li> <li>• Approx. 100 watts (AVG)</li> </ul>	1
<b>Pneumatic</b> <ul style="list-style-type: none"> <li>• Operates at 65 psig.</li> <li>• 7 scfm flow</li> <li>• Operates on non-lubricated air.</li> </ul>	<b>Electrical</b> <ul style="list-style-type: none"> <li>• 100, 115, 220, or 240 VAC</li> <li>• 50/60 Hz.</li> <li>• Approx. 100 watts (AVG)</li> </ul>			
PDSF	Dispenser Frame/Reel Holder	1		

### Other Components



PHS3	9.8 ft. (3m) feeder hose. Transfers cable ties and signal from dispenser to tool	1
PDH10-37	Main air supply hose (regulator to dispenser). 9.8 ft. (3m). Includes a 3/8" NPT male thread (to regulator) and 3/8" female quick-disconnect (to dispenser)	1
PL283N1	Filter/regulator 25 micron (max.) element, 5 psi (max.) pressure drop @ 85 psig inlet pressure and 16 cfm flow @ 85 psig; 3/8" ports	1
PAT2SBM	Bench mount and foot pedal for PAT2S System (shown on <a href="#">Page 48</a> )	1

## PATMBM Bench Mount used with PAT1M PAT1.5M Automatic Systems for Miniature Cross Section Cable Ties (18 lb. (80N) minimum loop tensile)



### 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. Qty.
PATMBM	Bench mount and foot pedal for PAT1M/PAT1.5M system, four-hole base plate.	1

## PAT2SBM Reel-Fed Bench Mount Application used with PAT2S Automatic System for Standard Cross Section Cable Ties (50 lb. minimum loop tensile)



### For Operations Where the Application is Brought to the Tool

- Used with PAT2S 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, dispenser frame, feeder hose and cable ties on reels; order the following:

Part Number	Description	Pkg. Qty.
PAT2SBM	Bench mount and foot pedal for PAT2S system, four-hole base plate.	1

# PANDUIT® Cable Ties for Automatic Installation Systems

## Cable Ties for PAT1M/PAT1.5M Systems (Pages 46 & 48)

### Cable Ties on



- Miniature cross section cable ties
- Self-locking
- U.L. Recognized
- 5000 ties/reel

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® Part No.
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#### Cable Ties for PAT1M/PAT1.5M Systems

6/6 Nylon (for indoor use) up to 185° F (85° C)							
Reels of 5,000 — 2 Reels/carton	PLT1M-XMR	Natural	.06-.82 (1.5-20.8)	4.0 (102)	.10 (2.5)	18 (80)	PAT1M
	PLT1M-XMR1	Brown					
	PLT1M-XMR2	Red					
	PLT1M-XMR3	Orange					
	PLT1M-XMR4	Yellow					
	PLT1M-XMR5	Green					
	PLT1M-XMR6	Blue					
	PLT1M-XMR7	Purple					
	PLT1M-XMR8	Gray					
	PLT1M-XMR10	White					
Weather-Resistant Nylon (for outdoor use) up to 185° F (85° C)							
PLT1M-XMR00	Black	.06-.82 (1.5-20.8)	4.0 (102)	.10 (2.5)	18 (80)	PAT1M	
PLT1.5M-XMR00	Black	.06-1.30 (1.5-33)	5.6 (142)	.10 (2.5)	18 (80)	PAT1.5M	
Heat Stabilized Nylon (for indoor use) up to 221° F (105° C)							
PLT1M-XMR30	Black	.06-.82 (1.5-20.8)	4.0 (102)	.10 (2.5)	18 (80)	PAT1M	
PLT1.5M-XMR30	Black	.06-1.30 (1.5-33)	5.6 (142)	.10 (2.5)	18 (80)	PAT1.5M	

Flammability Rating: U.L. 94V-2, ATB < sec. per ASTM-D635

## Cable Ties for PAT2S System (Pages 47 & 48)

### Cable Ties on Reels



- Standard cross section cable ties
- Self-locking
- U.L. Recognized
- 2500 ties/reel

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

The PAT2S system installs **PANDUIT** PLT2S-VMR locking cable ties. Cable ties are easily loaded or unloaded from the dispenser for quick reel changes, reducing downtime. Carrier strip connects 2500 ties in one continuous reel for long periods between reloads.

Part Number	Color	Max. Bundle Diameter In. (mm)	Length In. (mm)	Width In. (mm)	Min. Loop Tensile Strength Lbs. (N)	Use with PANDUIT® Part No.
-------------	-------	-------------------------------	-----------------	----------------	-------------------------------------	----------------------------

#### Cable Ties for PAT2S System

6/6 Nylon (for indoor use) up to 185° F (85° C)							
Reels of 2,500 — 2 Reels/carton	PLT2S-VMR	Natural	2.0 (50)	8.1 (206)	.190 (4.8)	50 (222)	PAT2S
	Heat-Stabilized Nylon (for indoor use) up to 221° F (105° C)						
PLT2S-VMR30	Black	2.0 (50)	8.1 (206)	.190 (4.8)	50 (222)	PAT2S	

Consult factory for color and weather resistant cable tie options.

Flammability Rating: U.L. 94V-2, ATB:5 sec., per ASTM-D635



### 3. PET1M/PET .5M Systems for Miniature Cross Section Cable Ties (18 lb. (80N) minimum loop tensile)



Completely portable, electric and automatic cable tie installation systems which install cable ties in less than one second, minimizing your total installed cost.

- Built for portability, the PET battery-operated tools are lightweight and have excellent balance and ergonomics. They can install cable ties in those areas that have been inaccessible by stationary tool systems.
- With the squeeze of the trigger, the PET tools install Panduit's continuously molded miniature cross section cable ties. The ties are available in strips of 50 or by the reel which allows the user to cut strips of custom lengths.

#### PET1M Tool Head



Part Number	Description	Pkg. Qty.
PET1M	Tool head for cable ties up to .82" (21mm) bundle diameter (PLT1M-5K) or (PLT1M-XMR) <ul style="list-style-type: none"> <li>• Open jaw design</li> <li>• 1 trigger operation</li> <li>• Ergonomic and lightweight</li> <li>• 3 electric power options: rechargeable battery cartridge, rechargeable batterybelt and AC adapter</li> <li>• Adjustable tension</li> <li>• Anti-pinch jaws</li> <li>• On/Off switch with tool status</li> <li>• Auto shutoff</li> <li>• Tip collector included</li> </ul>	1

#### PET1.5M Tool Head



PET1.5M	Tool head for cable ties up to 1.3" (33mm) bundle diameter (PLT1.5M-5K) or (PLT1.5M-XMR) <ul style="list-style-type: none"> <li>• Open jaw design</li> <li>• 1 trigger operation</li> <li>• Ergonomic and lightweight</li> <li>• 3 electric power options: rechargeable battery cartridge, rechargeable batterybelt and AC adapter</li> <li>• Adjustable tension</li> <li>• Anti-pinch jaws</li> <li>• On/Off switch with tool status</li> <li>• Auto shutoff</li> <li>• Tip collector included</li> </ul>	1
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#### Battery Cartridge (Ni-Cad)



PET-BS (front and back view shown)

PET-BS	Removable, rechargeable battery cartridge <ul style="list-style-type: none"> <li>• Charging time is 45-60 minutes</li> <li>• One charge will install approximately 200 cable ties</li> <li>• One battery weighs 0.5 lbs.</li> </ul>	1
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#### Battery Belt



PET-BB	Removable, rechargeable battery belt <ul style="list-style-type: none"> <li>• Charging time is 4-6 hours</li> <li>• One charge will install approximately 2000 cable ties</li> <li>• Battery belt weighs 2 lbs.</li> <li>• Includes a utility hook for hanging the tool and a pouch for carrying miscellaneous items</li> </ul>	1
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# PANDUIT® Cable Ties/Accessories for PET Installation Tools

## Battery Charger



Part Number	Description	Pkg. Qty.
PET-CHR	Battery charger 120 VAC	1
PET-CHR100	Battery charger 100 VAC	1
PET-CHR230	Battery charger 230 VAC	1

•Charges one or two batteries or battery belts at a time

## AC Adaptor



PET-AC	AC adaptor 120 VAC	1
PET-AC100	AC adaptor 100 VAC	1
PET-AC230	AC adaptor 230 VAC	1
PET-ACC3	AC adaptor cord 9.8 ft. (3 meters)	1
PET-ACC6	AC adaptor cord 19.7 ft. (6 meters)	1

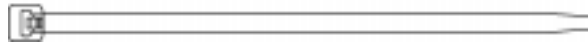
•Provides unlimited power to the tool

## Cable Ties for PET1M/PET1.5M Systems

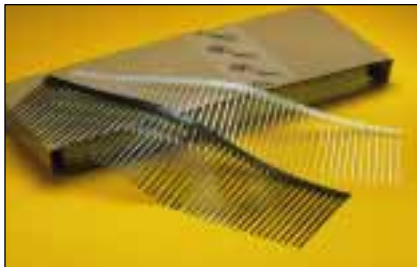
(See Page 50)

Part Number	Color	Max. Bundle Diameter In. (mm)	Length In. (mm)	Width In. (mm)	Min. Loop Tensile Strength Lbs. (N)	Use with PANDUIT® Part No.
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### Cable Ties for PET1M/PET1.5M System



## Cable Ties on Strips



100 strips of 50 ties/ctn.

		6.6 Nylon (for indoor use) -40° F to 185° F					
100 Strips of 50	PLT1M-5K	Natural	.82 (21)	4.0 (102)	.10 (2.5)	18 (80)	PET1M
	PLT1.5M-5K		1.3 (33)	5.6 (142)			PET1.5M
		Heat Stabilized Nylon (for outdoor use) up to 221° F					
100 Strips of 50	PLT1M-5K30	Black	.82 (21)	4.0 (102)	.10 (2.5)	18 (80)	PET1M
	PLT1.5M-5K30		1.3 (33)	5.6 (142)			PET1.5M
		6.6 Nylon (for indoor use) up to 185° F (85° C)*					
100 Strips of 50	PLT1M-XMR	Natural	.06-.82 (1.5-20.8)	4.0 (102)	.10 (2.5)	18 (80)	PET1M
	PLT1.5M-XMR	Natural	.06-1.30 (1.5-33)	5.6 (142)	.10 (2.5)	18 (80)	PET1.5M
		Weather-Resistant Nylon (for outdoor use) up to 185° F (85° C)					
100 Strips of 50	PLT1M-XMR00	Black	.06-.82 (1.5-20.8)	4.0 (102)	.10 (2.5)	18 (80)	PET1M
	PLT1.5M-XMR00	Black	.06-1.30 (1.5-33)	5.6 (142)	.10 (2.5)	18 (80)	PET1.5M
		Heat Stabilized Nylon (for indoor use) up to 221° F (105° C)					
100 Strips of 50	PLT1M-XMR30	Black	.06-.82 (1.5-20.8)	4.0 (102)	.10 (2.5)	18 (80)	PET1M
	PLT1.5M-XMR30	Black	.06-1.30 (1.5-33)	5.6 (142)	.10 (2.5)	18 (80)	PET1.5M

Flammability Rating: U.L. 94V-2, ATB < sec. per ASTM-D635  
Refer to page 49 for colors.

## Cable Ties on Reels



2 reels of 5,000 ties/ctn.

# PANDUIT® Pneumatic Hand Tools

## Pneumatic Hand Tools

### Tool-Controlled Tension and Cut-Off



Two tools cover the full line of **PANDUIT** Cable Ties for production applications. The tools pneumatically tension and cut off excess tie after it is hand-installed around the bundle, minimizing operator fatigue. Both tools are rugged, yet lightweight.

### For PANDUIT Cable Ties up to 1/2" (12.7mm) wide.

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



### PPTS and PPTEH Other Components



Part Number	Description	Pkg. Qty.
PPTS	Installs Miniature, Intermediate or Standard cross section cable ties Color identification: (knob) Black Weight: 18 oz. (510g) Replacement part kits can be part of a scheduled maintenance program	1
PPTEH	Installs Light Heavy, Heavy and Extra Heavy cross section cable ties. Color Identification: (knob) Blue Weight: 52 oz. (147g) Replacement part kits can be part of a scheduled maintenance program	1
PPH10	10 ft. (3m) Hose Assembly (regulator to tool). Includes a 1/8" NPT male connector (to regulator) and 1/8" female quick disconnect fitting (to tool).	1
PL289N1	Filter/Regulator .5 micron (max.) element, regulated range 3-100 PSIG, 1/8" ports	1

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

# PANDUIT® Hand-Operated Tools

## Hand-Operated Tools 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 to the head by squeezing trigger handle.

### For PANDUIT Cable Ties up to 1/2" (12.7mm) 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
- Durable powder coat finish
- Replacement blades available

	Part Number	Description	Pkg. Qty.
	GS2B	Installs Miniature, Intermediate or Standard cross section cable ties. Qualified product listed per Mil. Std. MS90387-1 and Mil. Spec. MIL-T-81306A.  Color Identification: Trigger Handle: Black      Selector Knob: Black Weight: 10 oz. (284g)	1
	GS2BL	Same as GS2B except handle span is reduced 25% - for workers with smaller hands. Qualified product listed per Mil. Std. MS90387-1 and Mil. Spec. MIL-T-81306A.  Color Identification: Housing is distinctive maroon color. Trigger Handle: Black      Selector Knob: Black Weight: 10 oz. (284g)	1
	GS4H	Installs Standard, Light Heavy and Heavy cross section cable ties. Also installs <b>SUPERFLEX™</b> (SLT) cable ties. Qualified product listed per Mil. Std. MS90387-2 and Mil. Spec. MIL-T-81306A.  Color Identification: Trigger Handle: Red      Selector Knob: Red Weight: 16 oz. (454g)	1
	GS4H/B	Installs Standard, Light Heavy and Heavy cross section cable ties. Also installs <b>SUPERFLEX</b> (SLT) cable ties. High tension, factory set, non-adjustable  Color Identification:      Trigger Handle: Blue Weight: 16 oz. (454g)	1
	GS4H121W	Installs Light Heavy and Heavy cross section cable ties. This tool provides greater tension, especially on 175 lb. strength ties, which results in tighter bundles.  Color Identification: Trigger Handle: Green      Selector Knob: Green Weight: 16 oz. (454g)	1
	GS4EH	Installs Light Heavy, Heavy and Extra Heavy cross section cable ties.  Color Identification: Trigger Handle: Blue      Selector Knob: Blue Weight: 16 oz. (454g)	1

# PANDUIT® Hand-Operated Tools

## PPTS, PPTEH, GS2B, GS2BL, GS4H, GS4H121W, GS4EH Tools Adjustment Features



### Tension Indicator

Each cross section of cable ties can be installed with a variety of tensions to meet the application. The proper tensions (listed on **PANDUIT** cable tie packages) are clearly marked with this indicator.

### Fast and Easy Selection





To change cross section, simply flip the knob to desired setting.



To change tension within the range of the cross-section, turn knob clockwise (shown) to increase, counterclockwise to decrease.

### Tool Tension Lock Kit

Certain applications require a locking device on either the selector knob (one cross-section size and tension only) or tension level adjustment (but allowing cross-section size changes). This kit is available for that purpose.

Part Number	Description	Pkg. Qty.
TTLK3-X	<b>Tool Tension Lock Kit</b> Each kit contains (1) #--40 selection locking screw (with head), (1) selection locking clip, and (1) #4-40 tension locking screw (headless). <div style="display: flex; justify-content: space-around; margin-top: 10px;"> <div style="text-align: center;">  <p>To lock selector knob and tension level</p> </div> <div style="text-align: center;">  <p>To lock fine adjustment</p> </div> </div>	10
K2-BLD2	Blade Replacement Kit for GS2B (all versions) and PPTS	1
K4H-BLD	Blade Replacement Kit for GS4H (3-screw blade guard only)	1
KPPTEHB KPPTEHG	Blade Replacement Kit for PPTEH Gripper Replacement Kit for PPTEH	1 1
KPTSG	Gripper Replacement Kit for PPTS	1
GHH	Specifically designed to hold GS2B, GS4H (series) or PPTS tools. Used wherever the hand tools are used—construction sites to assembly lines for a convenient and handy place for the tool.	1

### Repair Parts

#### Blade Replacement Kits and Gripper Replacement Kit

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

### Hand Tool Accessory



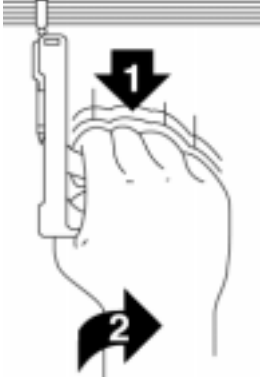




#### Holster



# PANDUIT® Hand-Operated Tools

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

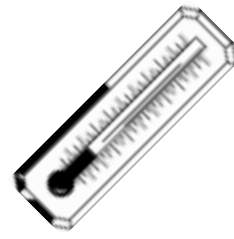
Panduit offers an economical series of tools for maintenance or construction applications—the user determines the required cable tie tension and the tools provide a cut-off. Used with the full line of **PANDUIT** Cable Ties.

Part Number	Description	Pkg. Qty.
	<p>Installs <b>PANDUIT</b> Miniature, Intermediate or Standard cross section cable ties. See STH2 operation below.</p> <p>Color Identification: Black Weight: 2 1/2 oz. (71g)</p>	1
 <ul style="list-style-type: none"> <li>• Inexpensive, maintenance-free, all purpose tools</li> <li>• Ergonomic handle design and short handle span</li> <li>• Top loading feature for right or left-handed users</li> </ul>	<p>Installs <b>PANDUIT</b> Standard, Light Heavy or Heavy cross section cable ties.</p> <p>Color Identification: Red Weight: 2 1/2 oz. (71g)</p> <p>INSTALLATION PROCEDURE FOR STS2 AND STH2 TOOLS</p> <ol style="list-style-type: none"> <li>1. Install cable tie around bundle. Tension tie by squeezing tool handle.</li> <li>2. Reduce tension slightly and twist tool 1/4 turn either direction for cut-off of cable tie.</li> </ol> 	1
 <ul style="list-style-type: none"> <li>• Durable all steel construction</li> <li>• Comfortable rubber handles</li> </ul>	<p>Installs <b>PANDUIT</b> Light Heavy, Heavy or Extra Heavy cross section cable ties.</p> <p>Color Identification: Black Handles Weight: 16 oz. (454g)</p>  <p>After installing tie around bundle and tensioning, tool is twisted a 1/4 turn "in either direction" to cut off excess tie.</p>	1
<p><b>KST2EHG</b></p>	<p>Gripper Replacement Kit for ST2EH.</p>	1
 <ul style="list-style-type: none"> <li>• Durable all steel construction</li> <li>• "Travel stop" helps prevent pinched fingers</li> </ul>	<p>Installs <b>PANDUIT</b> Light Heavy and Heavy cross section cable ties. Also installs <b>SUPERFLEX™</b> (SLT) cable ties.</p> <p>Color Identification: All Yellow Weight: 12 oz. (340g)</p>  <p>After installing tie around bundle, the handles are squeezed to provide tension. A separate lever cuts excess tie.</p>	1



# 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 to provide data on all the various combinations of conditions which may arise, it is suggested that this data be used as a guideline and that sample cable ties 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	Natural 6.6 Nylon	Weather Resistant 6.6 Nylon	Heat Stabilized Black 6.6 Nylon	Heat Stabilized Natural 6.6 Nylon	Heat Stabilized Weather Resistant 6.6 Nylon	Flame Retardant Black 6.6 Nylon	Flame Retardant 6.6 Nylon	Weather Resistant Nylon 12	Natural Polypropylene	Weather Resistant Polypropylene	TEFZEL*	HALAR†	Stainless Steel
Part Number Suffix Material Designation		-0	-30	-39	-300	-60	-69	-120	-109	-100	-76	-702	
Loop Tensile Strength	7	7	7	7	7	7	7	6	5	5	7	5	10
Low Temperature Service	6	6	6	6	6	5	5	6	6	6	7	7	10
High Temperature Service	5	5	6	6	6	5	5	5	5	5	8	7	10
Flammability	6	6	6	6	6	8	8	3	2	2	9	9	10
Ultraviolet Resistance	1	6	4	1	6	1	1	7	1	6	9	9	10
Radiation Resistance	3	3	3	3	3	3	3	4	5	5	9	9	10
Overall Chemical Resistance	6	6	6	6	6	6	6	8	8	8	10	10	9
-Hydrocarbons	9	9	9	9	9	9	9	9	6	6	10	10	10
-Chlorinated Hydrocarbons	7	7	7	7	7	7	7	8	5	5	10	10	10
-Acids	2	2	2	2	2	2	2	6	9	9	10	10	10
-Bases	7	7	7	7	7	7	7	7	9	9	10	10	8
-Salts	3	3	3	3	3	3	3	8	10	10	10	10	9
Relative Price	Low	Low	Low	Low	Med.	Med.	Med.	Med.	Low	Low	High	High	High

### Example No. 1:

Application	Selection
If your application requires high radiation ( $2 \times 10^5$ rads) resistance, excellent resistance to hydrocarbons and the price is not critical.	Your best choice is TEFZEL or stainless steel. The price is higher than other materials, but both have high ratings in resistance to radiation and hydrocarbons.

### Example No. 2:

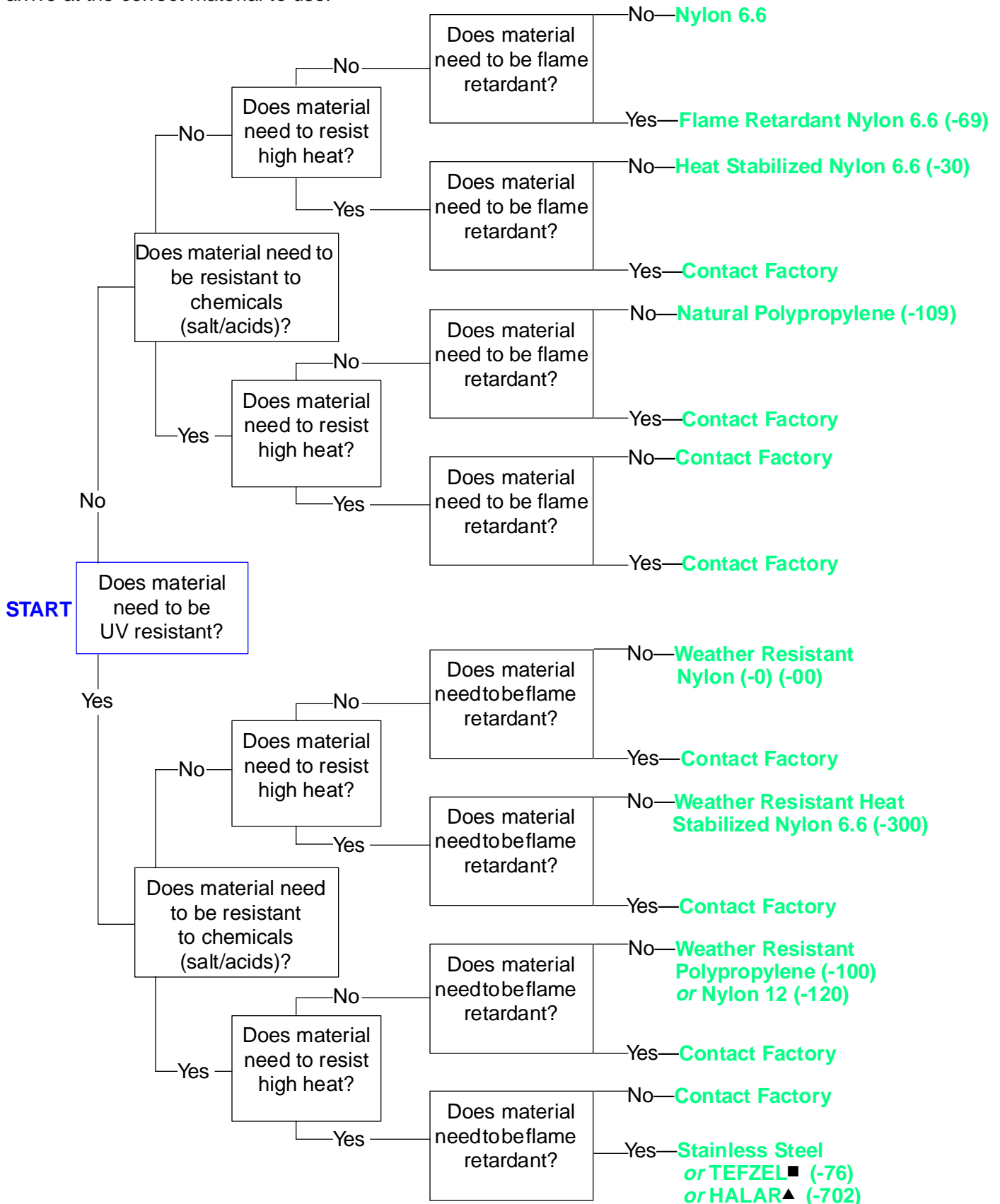
Application	Selection
If your application requires a low cost material, good ultraviolet resistance and good resistance to acid rains.	Your best choice is weather-resistant polypropylene which is less expensive, 6 rating in ultraviolet resistance and 9 rating on resistance to acids.



# PANDUIT® Material Selection Guide

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.

## Suggested Material to use



# Weathering

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## 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**® 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<sup>■</sup> or HALAR<sup>▲</sup>, 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, 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 D1435-85 Recommended 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 have been used in order to increase 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 D1499-84, Operating Light and Water Exposure Apparatus (Carbon-Arc type) for exposure to plastics
- ASTM G53-84, Operating Light and Water Exposure (Fluorescent U.V. Condensation type) for exposure of non-metallic materials

The condition specified in ASTM D1499-84 utilizes a carbon arc to simulate natural sunshine and a water spray. The test chamber is operated 20 hrs/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°C (145°F) during the "Sunshine Only" portion of the cycle. Humidity is not controlled inside the chamber.

The test chamber per ASTM D53-84 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°C (122°F) and 40°C (104°F) during the condensation cycle.

Panduit 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.

# Weathering

## 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 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.

Three cable tie materials (TEFZEL<sup>■</sup>, HALAR<sup>▲</sup> and stainless steel) have superior ultraviolet light resistance. In tests conducted to date, both 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. <b>This is the most detrimental factor to the life of a tie.</b>
Bundle Diameter	As the bundle diameter is reduced, the tie has more bending stress. A thick strap on small diameter has more stress.
Loading	If the tie is under high loading, this will add additional stress on the tie body.
Thickness	A thinner tie will have a decreased life since surface cracks will penetrate the thickness of the tie faster.
Vibration	Applications with high vibrations will cause impact which will propagate any surface cracks.
Degree of Exposure	No shield or shade, southern exposure, higher altitudes and high temperatures decrease the life of the cable tie.
Moisture	Dry environments cause nylon 6.6 ties to become more brittle. High humidity plus high temperatures can result in degradation due to hydrolysis in nylon.
Galvanized Metals	Acid rain and acid moisture acting on galvanized metals release chemicals known to attack nylon 6.6.

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

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

# Flammability

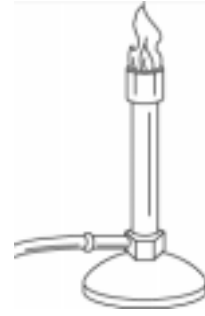
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## Flammability

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 127mm by 12.7mm 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 °F, 70°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" (305mm) 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 94V-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" (305mm) 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" (305mm) 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.

# Flammability

## ASTM D 635

Samples of a material, with dimensions 125mm by 12.5mm 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 100mm from the free end. Ten specimens are tested.

- Burning Rate
- If two or more specimens have burned to the 100mm mark then Average Burning Rate (cm/min) shall be reported as the average of the burning rates of all specimens which have burned to the 100mm 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 100mm mark.
- Average Time of Burning (ATB):
  - Average Extent of Burning (AEB):

$$ATB, s = \frac{\sum_0^{10} (t - 30s)}{\text{Number of Specimens}}$$

Rounded to the nearest 5 sec.

$$AEB, mm = \frac{\sum_0^{10} (100 - \text{unburned length})}{\text{Number of Specimens}}$$

Rounded to the nearest 5mm

## Flammability Ratings

Materials	UL94	ASTM D635
Natural 6.6 Nylon	94V-2 (1/16")	AEB = 20mm ATB = 5 seconds
Weather Resistant 6.6 Nylon (-00)	94V-2 (1/16")	AEB = 20mm ATB = 5 seconds
Weather Resistant 6.6 Nylon (-0)**	94V-2 (1/16")	AEB = 20mm** ATB = 5 seconds**
Heat Stabilized 6.6 Nylon (-30)	94V-2 (1/16")	AEB = 20mm ATB = 5 seconds
Heat Stabilized Natural 6.6 Nylon (-39)	94V-2 (1/16")	AEB = 20mm ATB = 5 seconds
Heat Stabilized Weather Resistant 6.6 Nylon (-300)	94V-2 (1/16")	AEB = 20mm ATB = 5 seconds
Flame Retardant Black 6.6 Nylon (-60)	94V-0 (1/64")	AEB = 15mm ATB < 5 seconds
Flame Retardant 6.6 Nylon (-69)	94V-0 (1/64")	AEB = 15mm ATB < 5 seconds
Weather Resistant Nylon 12 (-120)	Not Recognized	Ave. Burning Rate 1.6cm/min.
Natural Polypropylene (-109)	Not Recognized	Ave. Burning Rate 2 cm/min.
Weather Resistant Polypropylene (-100)	Not Recognized	Ave. Burning Rate 2 cm/min.
TEFZEL ■ (-76)	94V-0(1/16")	AEB < 15mm ATB < 5 seconds
HALAR▲ (-702)	94V-0(1/16")	AEB = 15 min. ATB < 5 seconds*
Stainless (MLT prefix)	Not Applicable	Not Applicable

\*Rating based on 1/8" thick test samples.

\*\*Consult factory for specific tie sizes.

# Radiation/Moisture/Temperature/Tensile Strength

## 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 mainly to determine the acceptability for use in various areas of nuclear power plants (accumulated over 40 year life). See Table B for radiation resistance rating.



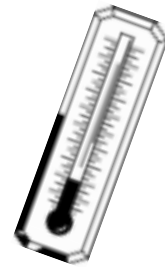
## Moisture

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, and TEFZEL■ are low water absorbing materials and, as such, the effect of water is minimal. See Table B for moisture absorption.



## Temperature

Plastic materials normally undergo property loss during exposure to high temperature due to oxidation. The maximum temperature for successful service depends upon the material used as well as 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. Low temperature exposure will also make most plastics more brittle during this exposure, but little property loss occurs when the material is returned to room temperatures. The minimum continuous use temperature after installation is stated in Table B.



## Tensile Strength

Most cable ties are selected based on material, length and minimum loop tensile strength. Minimum loop tensile strength was established under Military Specification MIL-S-23190. Each cross section cable tie (Miniature-M, Intermediate-I, Standard-S, Heavy-H and Extra Heavy-EH) has a different loop tensile strength when testing per MIL-S-23190.

The cable tie is first conditioned at 49°C (120°F), 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" (25.4mm) 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.

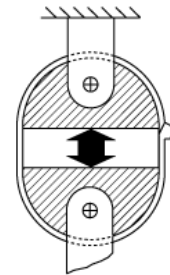


Fig. 1



# Physical Characteristics of Cable Tie Materials

Table B — Physical Characteristics of Various Cable Tie Materials

Design Criteria	Natural 6.6 Nylon	Weather Resistant 6.6 Nylon	Heat Stabilized Black 6.6 Nylon	Heat Stabilized Natural 6.6 Nylon	Heat Stabilized Weather Resistant 6.6 Nylon	Flame Retardant Black 6.6 Nylon	Flame Retardant 6.6 Nylon	Weather Resistant Nylon 12	Natural Polypropylene	Weather Resistant Polypropylene	TEFZEL ■	HALAR®	Stainless Steel
Tensile Strength 73°F (psi)	12,000 <sup>1</sup>	12,000 <sup>1</sup>	12,000 <sup>1</sup>	12,000 <sup>1</sup>	12,000 <sup>1</sup>	12,000 <sup>1</sup>	12,000 <sup>1</sup>	8,100 <sup>1</sup>	4,100 <sup>1</sup>	4,100 <sup>1</sup>	7,500 <sup>1</sup>	7,000 <sup>1</sup>	90,000 <sup>2</sup>
Color	Natural	Black	Black	Natural	Black	Black	Ivory	Black	Green	Black	Aqua	Maroon	Stainless
UL Flammability	See Page 62												
Oxygen Index	28	28	26	26	26	34	34	NA	NA	NA	30	60	NA
Radiation Resistance	1 x 10 <sup>5</sup> Rads	1 x 10 <sup>5</sup> Rads	1 x 10 <sup>5</sup> Rads	1 x 10 <sup>5</sup> Rads	1 x 10 <sup>5</sup> Rads	1 x 10 <sup>5</sup> Rads	1 x 10 <sup>5</sup> Rads	3.5 x 10 <sup>6</sup> Rads	1 x 10 <sup>5</sup> Rads	1 x 10 <sup>5</sup> Rads	2 x 10 <sup>8</sup> Rads	2 x 10 <sup>8</sup> Rads	2 x 10 <sup>8</sup> Rads
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%	None
Ultraviolet Light Resistance	Poor	Good	Fair	Poor	Good	Poor	Poor	Good	Poor	Good	Excellent	Excellent	Excellent
Max. Continuous Use Temperature	185°F 85°C	185°F 85°C	221°F 105°C	221°F 105°C	205°F <sup>3</sup> 96°C	221°F 105°C	221°F 105°C	176°F 80°C	185°F 85°C	185°F 85°C	302°F <sup>6</sup> 150°C	284°F <sup>7</sup> 140°C	1000°F <sup>5</sup> 537°C
Min. Continuous Use Temperature <sup>4</sup>	-40°F -40°C	-40°F -40°C	-40°F -40°C	-40°F -40°C	-40°F -40°C	-40°F -40°C	-40°F -40°C	-40°F -40°C	-40°F -40°C	-40°F -40°C	-50°F -46°C	-50°F -46°C	-112°F -80°C
Minimum Loop Tensile Strength @ 120°F; 20% RH	Submin.> Min.>	12 lb. 18 lb.	N/A 18 lb.	N/A 18 lb.	N/A 18 lb.	N/A 18 lb.	N/A 18 lb.	N/A 18 lb.	N/A 12 lb.	N/A 12 lb.	N/A 12 lb.	N/A 18 lb.	N/A 18 lb.
	Int.>	30/40 lb.	30/40 lb.	30/40 lb.	30/40 lb.	30 lb.	30 lb.	40 lb.	25 lb.	N/A	N/A	25 lb.	N/A
	Std.>	50 lb.	50 lb.	50 lb.	50 lb.	50 lb.	50 lb.	50 lb.	40 lb.	30 lb.	30 lb.	50 lb.	65 lb.
	Hvy.>	120/175 lb.	120/175 lb.	120/175 lb.	120/175 lb.	120 lb.	120 lb.	120 lb.	90 lb.	50 lb.	50 lb.	120 lb.	N/A
EH> DH	250 lb.	250 lb.	250 lb.	250 lb.	N/A	N/A	N/A	N/A	90 lb.	90 lb.	N/A	N/A	N/A 600 lb.
Tool Installed	GS2B GS2BL GS4H GS4EH GS4EH STS2 STH2 ST2EH STHV PPTS PPTEH	GS2B GS2BL GS4H GS4EH GS4EH STS2 STH2 ST2EH STHV PPTS PPTEH	GS2B GS2BL GS4H GS4EH STS2 STH2 ST2EH STHV PPTS	GS2B GS2BL GS4H GS4EH STS2 STH2 ST2EH STHV PPTS	GS2B GS2BL GS4H GS4EH STS2 STH2 ST2EH STHV PPTS	GS2B GS2BL GS4H GS4EH STS2 STH2 ST2EH STHV PPTS	GS2B GS2BL GS4H GS4EH STS2 STH2 ST2EH STHV PPTS	GS2B GS2BL GS4H GS4EH STS2 STH2 ST2EH STHV PPTS	GS2B GS2BL GS4H GS4EH GS4EH STS2 STH2 ST2EH STHV PPTEH PPTS	GS2B GS2BL GS4H GS4EH GS4EH STS2 STH2 ST2EH STHV PPTEH PPTS	GS2B GS2BL GS4H GS4EH STS2 STH2 ST2EH STHV PPTS	GS2B GS2BL GS4H GS4EH STS2 STH2 ST2EH STHV PPTS	GS4MT ST2MT PPTMT HTMT
Part Number Suffix/ Material Designation	None	-0 and -00	-30	-39	-300	-60	-69	-120	-109	-100	-76	-702	

1. ASTM D638-878

2. ASTM E8

3. Estimated

4. After installation

5. (-321) goes to 1700° (923°C)

6. U.L. component recognized at 170°C

7. U.L. component recognized at 125°C

Based on assumption of minimum loading, chemical attack, and impact-free conditions.

# Chemical Resistance

## 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° F.



**Table C — Resistance of PANDUIT® Cable Tie Materials to Chemical Attack at 70°F**

— = Not Tested  
 E = Excellent  
 S = Satisfactory  
 B = Slight Attack  
 U = Attacked

<sup>1</sup> = Pitting occurs under some conditions  
<sup>2</sup> = Attack may occur if sulfuric acid present  
 Aq. = Aqueous  
 C.S. = Cold Saturated

Agent	Percent Concentration	* Nylon 6.6	Nylon 12	Polypropylene	TEFZEL ■	HALAR ▲	304 Stainless Steel	316 Stainless Steel
Acetaldehyde	90	S	—	B	E	E	—	—
Acetic Acid	97	U	U	E	E	E	E	E
Acetic Acid	10	B	S	E	E	E	E	E
Acetic Anhydride	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 <sup>1</sup>	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	E <sup>1</sup>	E
Ammonium Hydroxide	10	E	—	—	E	E	—	—
Ammonium Nitrate	100	—	E	E	E	E	E	E
Ammonium Sulfate	10	—	E	E	E	E	E <sup>1</sup>	E <sup>1</sup>
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 <sup>1</sup>	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	E <sup>1</sup>	E <sup>1</sup>

# Chemical Resistance

**Table C — Resistance of PANDUIT® Cable Tie Materials to Chemical Attack at 70°F (Continued)**

Agent	Percent Concentration	* Nylon 6.6	Nylon 12	Polypropylene	TEFZEL ■	HALAR ▲	304 Stainless Steel	316 Stainless Steel
Calcium Hydroxide	50	—	—	E	E	E	E	E
Calcium Hypochlorite	2	U	—	E	E	E	E <sup>1</sup>	E <sup>1</sup>
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 <sup>1</sup>	E <sup>1</sup>
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	E <sup>1</sup> to U	E <sup>1</sup> to B <sup>1</sup>
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	—	—
Diocetyl 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 Chloride	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	E <sup>1</sup>	E
Fluorine (Dry)	100	—	—	U	E	—	U	U
Formaldehyde	40	E	S	E	E	E	E <sup>1</sup>	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

\*INCLUDES ALL 6.6 NYLONS (SUCH AS WEATHER RESISTANT, HEAT STABILIZED AND FLAME RETARDANT)

▲HALAR is the Registered Trademark for Ausimont Inc. fluoropolymer

■TEFZEL is the Registered Trademark of E. I. DuPont Co., fluoropolymer

# Chemical Resistance

Table C — Resistance of PANDUIT® Cable Tie Materials to Chemical Attack at 70°F (Continued)

Agent	Percent Concentration	* Nylon 6.6	Nylon 12	Polypropylene	TEFZEL ■	HALAR ▲	304 Stainless Steel	316 Stainless Steel
Glycolic Acid	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
Hydrofluorosilicic 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 <sup>2</sup>	E <sup>2</sup>
Hydroquinone	100	—	—	E	E	E	—	—
Iodine	100	—	—	E	E	E	U	U
Iodoform	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 <sup>1</sup>	E <sup>1</sup>
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 <sup>1</sup>	E <sup>1</sup>
Nickel Sulfate	Aq. C.S.	—	E	E	E	E	E <sup>1</sup>	E <sup>1</sup>
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

# Chemical Resistance

**Table C — Resistance of PANDUIT® Cable Tie Materials to Chemical Attack at 70°F (Continued)**

Agent	Percent Concentration	* Nylon 6.6	Nylon 12	Polypropylene	TEFZEL <sup>■</sup>	HALAR <sup>▲</sup>	304 Stainless Steel	316 Stainless Steel
Potassium Borate	1	—	—	E	E	E	—	—
Potassium Bromide	Aq. C.S.	—	—	E	E	E	E <sup>1</sup>	E <sup>1</sup>
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	E <sup>1</sup>	E <sup>1</sup>
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 Iodide	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	E <sup>1</sup>	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	E <sup>1</sup>	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	E <sup>1</sup>	E <sup>1</sup>
Sodium Chromate	Aq. C.S.	U	—	E	E	E	E	E
Sodium Fluoride	5	—	—	E	E	E	E <sup>1</sup>	E <sup>1</sup>
Sodium Hydroxide	10	E	E	E	E	E	E	E
Sodium Hypochlorite	5	S	B	E	E	E	B <sup>1</sup>	E <sup>1</sup>
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 <sup>1</sup>	E
Sodium Thiosulfate	25	—	E	E	E	E	E <sup>2</sup>	E <sup>2</sup>
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
Sulfur 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

\*INCLUDES ALL 6.6 NYLONS (SUCH AS WEATHER RESISTANT, HEAT STABILIZED AND FLAME RETARDANT)

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■TEFZEL is the Registered Trademark of E. I. DuPont Co., fluoropolymer

# Chemical Resistance

Table C — Resistance of PANDUIT® Cable Tie Materials to Chemical Attack at 70°F (Continued)

Agent	Percent Concentration	* Nylon 6.6	Nylon 12	Polypropylene	TEFZEL ■	HALAR ▲	304 Stainless Steel	316 Stainless Steel
Sulfurous Acid	10	E	—	E	E	E	B'	E'
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	E'	E'
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



# Quality

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## Quality . . . “First Among Equals” at *PANDUIT*



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



Operator inspection is an important Panduit TQA procedure.



Members of Excellence Thru Quality Teams search for ways to improve product quality.

### **TQA is a Top Level Concern**

Total Quality Assurance (TQA) has the highest priority at Panduit. Division managers are members of the Panduit Quality Council, which implements our “Excellence Through Quality” (ETQ) program. Under this program, all employees receive training in quality and are empowered to continually improve products and services in their work area. There is no mistaking that quality is a state of mind at Panduit.

In addition, Panduit engineering and manufacturing work closely together from the beginning to design quality into both the product and the manufacturing process.

### **People — the Key to Excellence**

Although Panduit continues to invest heavily in testing and other equipment to support TQA activities, people remain the key to achieving excellence.

For example, under the “owner-operator” concept, individual employees, using continuous process testing, are responsible for the quality produced in their area of manufacturing or service.

### **ISO 9001**

Virtually all Panduit worldwide manufacturing facilities have received ISO registration. This recognition indicates that we meet the most comprehensive international standards

in design, purchasing, manufacturing, testing, documentation, shipping and service. As a result, Panduit's high-quality products and services are helping customers meet ISO 9000 quality requirements while reducing their transaction and inspection costs.



In addition to ISO certification, Panduit provides additional quality requirements to meet the needs of specific industries.

# Packaging

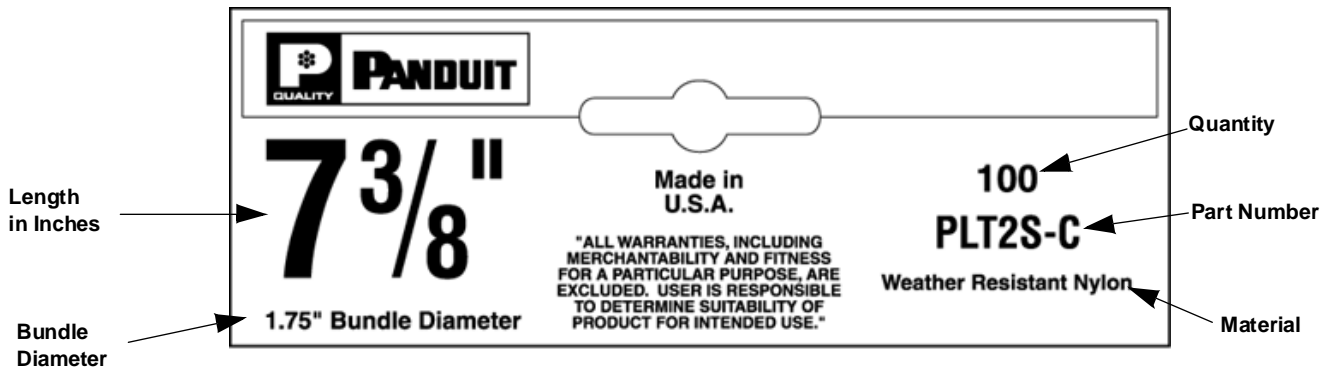
## Panduit Packaging

All Panduit packaging is designed to provide complete and fast identification of contents, durable product protection, easy handling, informative graphics, and bar coding for more accurate inventory control. On our more popular parts, you can choose from our convenience pack, standard pack or bulk pack quantities.

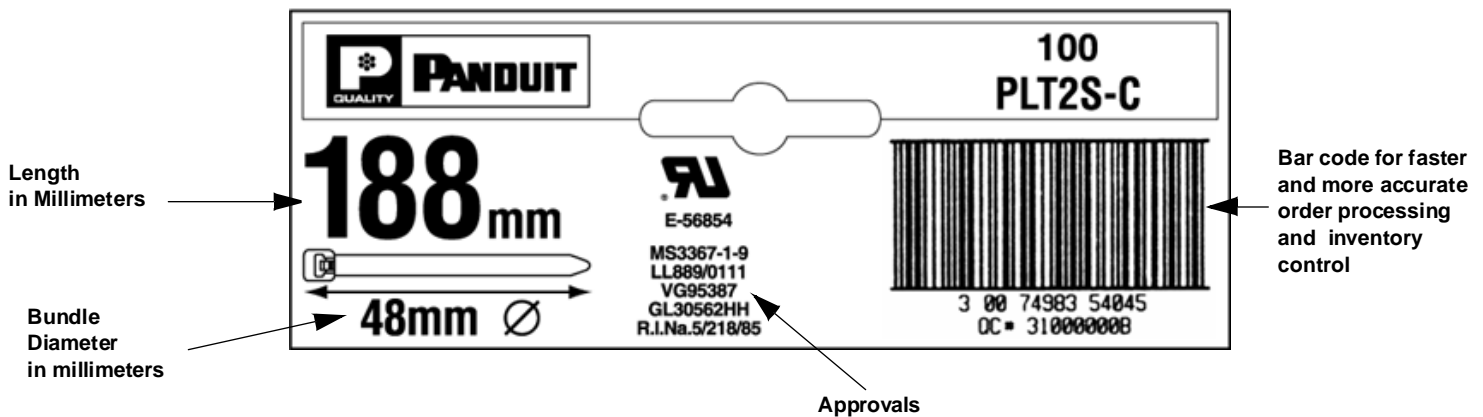


## Informative and Easy to Read Labels

### Front Side of Label



### Back Side of Label



# Packaging

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## PANDUIT® Products are on Display at Your Local Panduit Distributor

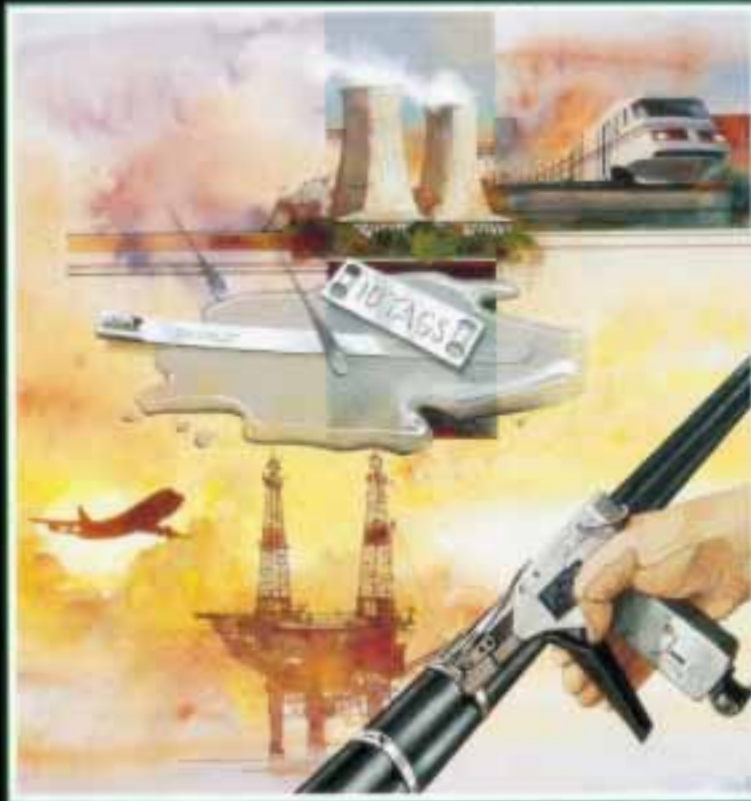


**Your local Panduit Distributor carries top quality PANDUIT® products and offers many advantages and services to help lower your transaction costs:**

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



## **PAN-STEEL™ System**



For All Harsh Environments

- High Strength
- Long Life
- Weather Resistance
- Chemical Resistance
- Temperature Extremes
- Radiation Resistance
- Permanent Identification

Sold exclusively through your local Panduit Distributor

# PANDUIT® Stainless Steel Cable Ties and Accessories

## PAN-STEEL™ Stainless Steel Tie System



### RELIABLE PERFORMANCE IN SEVERE ENVIRONMENTAL CONDITIONS

- Perfect for indoor, outdoor and underground applications—excellent resistance to abrasion, radiation, weathering, corrosion and temperature extremes
- Ties are self-locking for fast cabling and can be installed by hand or with unique **PANDUIT** tools
- Safe to handle, safe for wires—no sharp edges (fully rounded sides)

### TIES Standard Sizes



- Fully radiused sides
- Fast and easy to install (self-locking)
- 304 Stainless Steel
- Standard cross-section ties are MIL-S-23190 approved
- For more corrosive applications 316 stainless is available
- Det Norske Veritas approved on 316 material
- For extreme high temperature applications, 321 material is available

PANDUIT Part No.	Max. Bundle Dia. Inches (mm)	Length Inches (mm)	Width Inches (mm)	Min. Loop Tensile Strength Lbs. (N)	Pkg. Qty.	Ctn. Qty.
<b>MLT1S-CP</b>	1.00 (25)	5.0 (127)	.18 (5)	100 (445)	100	500
<b>MLT2S-CP</b>	2.00 (50)	7.9 (201)			100	500
<b>MLT2.7S-CP</b>	2.70 (69)	10.2 (259)			100	500
<b>MLT4S-CP</b>	4.00 (102)	14.2 (360)			100	500
<b>MLT6S-CP</b>	6.00 (152)	20.4 (520)			100	500
<b>MLT8S-CP</b>	8.00 (203)	26.8 (679)			100	500
<b>MLT10S-CP</b>	10.00 (254)	33.0 (838)			100	500
<b>MLT12S-Q</b>	12.00 (305)	42.0 (1067)			25	125
<b>MLT14S-Q</b>	14.00 (356)	47.0 (1194)			25	125
<b>MLT2H-LP</b>	2.00 (50)	7.9 (201)			.31 (8)	250 (1112)
<b>MLT2.7H-LP</b>	2.70 (69)	10.2 (259)	50	250		
<b>MLT4H-LP</b>	4.00 (102)	14.2 (360)	50	250		
<b>MLT6H-LP</b>	6.00 (152)	20.4 (520)	50	250		
<b>MLT8H-LP</b>	8.00 (203)	26.8 (679)	50	250		
<b>MLT10H-LP</b>	10.00 (254)	33.0 (838)	50	250		
<b>MLT12H-Q</b>	12.00 (305)	42.0 (1067)	25	125		
<b>MLT14H-Q</b>	14.00 (356)	47.0 (1194)	25	125		

### Custom Length 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). Contact factory

### CUSTOM LENGTH BANDING SYSTEM

Part No.	Max. Bundle Dia. Inches (mm)	Length Inches (mm)	Width Inches (mm)	Min. Loop Tensile Strength Lbs. (N)	Pkg. Qty.	Ctn. Qty.
<b>MBS-TLR</b>	Any	n/a	5	n/a	1*	n/a
<b>MBS-MR</b>					1*	n/a
<b>MBH-TLR</b>	Any	n/a	8	n/a	1*	n/a
<b>MBH-MR</b>					1*	n/a

### BANDING HEADS

Part No.	Max. Bundle Dia. Inches (mm)	Length Inches (mm)	Width Inches (mm)	Min. Loop Tensile Strength Lbs. (N)	Pkg. Qty.	Ctn. Qty.
<b>MTHS-C</b>	n/a	n/a	n/a	n/a	100	1000
<b>MTHH-C</b>	n/a	n/a	n/a	n/a	100	1000

\*Order number of reels required. Std. Pkg. -TLR = 76M reel and Bulk Pkg. - MR = 305M reel.

Premier products are shown in **BOLD** print.

### Double Wrap Metal Locking Ties



- Double wrapped stainless steel ties in 304 material for extra high strength in critical applications
- Double wrapped stainless steel ties allow for tighter tensioning on non-resilient bundles
- Available in .31" (7.9mm) width for bundle diameters ranging from 1.00"-10.00" (25mm-250mm)
- Loop tensile strength of 600 lbs. (2669N)
- Self-locking ties, no tools required
- Optional tooling is available to speed installation and lower installed costs (see page 74)

Cable ties body wraps around two times entering the locking head twice.

Part No.	Max. Bundle Dia. Inches (mm)	Length Inches (mm)	Width Inches (mm)	Min. Loop Tensile Strength Lbs. (N)	Pkg. Qty.	Ctn. Qty.
<b>MLT2DH-L</b>	2.00 (50)	18.5 (470)	.31 (8)	600 (2669)	50	250
<b>MLT3DH-L</b>	3.00 (75)	22.0 (559)			50	250
<b>MLT4DH-L</b>	4.00 (102)	28.0 (711)			50	250
<b>MLT5DH-L</b>	5.00 (125)	34.0 (863)			50	250
<b>MLT6DH-Q</b>	6.00 (152)	40.0 (1016)			25	250
<b>MLT7DH-Q</b>	7.00 (175)	46.5 (1181)			25	250
<b>MLT8DH-Q</b>	8.00 (203)	53.0 (1345)			25	250
<b>MLT9DH-Q</b>	9.00 (225)	59.0 (1500)			25	250
<b>MLT10DH-Q</b>	10.00 (254)	65.0 (1652)			25	250

Order number of ties required in multiples of Pkg. Qty.

### Nylon 11 Coated Ties



- 316 base material provides added corrosion protection
- Coating provides additional protection to the bundle
- Provides improved isolation between dissimilar metals

### COATED 316 STAINLESS STEEL

Part No.	Max. Bundle Dia. Inches (mm)	Length Inches (mm)	Width Inches (mm)	Min. Loop Tensile Strength Lbs. (N)	Pkg. Qty.	Ctn. Qty.
<b>MLTC2H-LP316</b>	2.00 (50)	7.9 (201)	.31 (8)	120 (534)	50	250
<b>MLTC4H-LP316</b>	4.00 (102)	14.3 (362)			50	250
<b>MLTC6H-LP316</b>	6.00 (152)	20.5 (521)			50	250
<b>MLTC8H-LP316</b>	8.00 (203)	26.8 (679)			50	250
<b>MLTC10H-LP316</b>	10.00 (254)	33.0 (838)			50	250

\*Order number of reels required. Std. Pkg. -TLR = 76M reel and Bulk Pkg. - MR = 305M reel. Premier products are shown in **BOLD** print.



# PANDUIT® Stainless Steel Mounts and Marking Products

## Installation Tools



ST2MT



GS4MT



PPTMT



HTMT

PANDUIT Part No.	Description	Pkg. Qty.
PPTMT	Pneumatic-operated, tool controlled tension and cut-off for production applications	1
GS4MT	MIL approved. Hand-operated, tool controlled tension 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

## PAN-STEEL™ Accessories



### Cushion Sleeve

- Makes rigid bundles resilient, provides tighter tensioning
  - Non-conductive insulator between clamp and bundle
- Material: Black, Neoprene Rubber

PANDUIT Part No.	For Clamp Width mm	Sleeve Width mm	Pkg. Qty.	Ctn. Qty.
PCSS-B-QR	.18 (4.6)	.33 (8)	1	10
PCSS-B-CR			1	—
PCSH-B-QR	.31 (7.9)	.47 (12)	1	10
PCSH-B-CR			1	—

Std. Pkg. -QR = 25 ft. reel  
Bulk Pkg. -CR = 100 ft. reel  
Order the number of reels required.

## Stainless Steel Mounts



### Mount

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

PANDUIT Part No.	For MLT Tie Width in (mm)	Mounting Method	Hole Diameter	Pkg. Qty.	Ctn. Qty.
MTM1H-C	.18 (4.6) or .31 (7.9)	#8 (4mm) Screw	.176" (4.47mm)	100	1000
MTM1H10-C		#10 (5mm) Screw	.214" (5.43mm)	100	1000
MTM1H25-C		1/4" (6mm) Screw	.281" (7.14mm)	100	1000



Push-Wing Mount  
MPWM-H56-Q



Push-Button Mount  
MBM-H25-Q

PANDUIT® Part No.	For MLT Tie Width In. (mm)	Mounting Method	Panel Thickness	Std. Pkg. Qty.	Std. Ctn. Qty.
MPWM-H56-Q	.18 (4.6) or .31 (7.9)	Inserted into pre-drilled hole 5/16" (8mm)	.031" (.8mm) - .094" (2.38mm)	25	250
MBM-H25-Q	.18 (4.6)	Inserted into pre-drilled hole .250" (6.4mm)	.031" (.8mm) - .125" (3.18mm)	25	250
MTM2H-Q	.18 (4.6) or .31 (7.9)	#8 (4mm) Screw	—	25	250
MTMBH-Q	.18 (4.6) or .31 (7.9)	Pre-drill hole size Max. size .625" (15.9mm)	Up to .500" max. (12.7mm)	25	250

Material: 304 Stainless Steel



Two-Way Mount  
MTM2H-Q



Bulkhead Mount  
MTMBH-Q

## Stainless Steel Marking Products

Use **PAN-STEEL** Ties or stainless steel strapping to provide identification in harsh environments. The ties and strapping can be stamped with available tooling or custom stamped at the factory. Marker plates and metal embossed tape are also available.

### MARKER PLATES AND TAGS



- Attached with **PAN-STEEL** ties
- 304, 316 stainless steel, brass, aluminum and anodized aluminum available
- Can be used as a flag or wrap
- Various sizes and shapes available; round, square, rectangular, octagonal, etc. Contact factory for part numbers etc.
- All can be custom marked by Panduit. See page 75 for details

PANDUIT® Part No.	Used with Clamp/Tie Width	Size - In. (mm)		Std. Pkg. Qty.	Std. Ctn. 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	.18"(4.6) or .31" (7.9)	.75 (19)	3.50 (89)	100	1000



# PANDUIT® Stainless Steel Marking Products

## Stainless Steel Marking Products (continued)

### 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™** 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	.	/	-		

3/8" height (approx. 6 characters per inch)

PANDUIT® Part No.	Description	Pkg. Qty.	Ctn. Qty.
MEHT	Embosser, carrying case, (1) roll each of META and METS4 tape	1	—
<b>TAPE</b>			
META-X	1/2" x 16 ft. roll Aluminum tape	10	50
METS3-X	1/2" x 21 ft. roll Stainless Steel (316 Grade)	10	50
METS4-X	1/2" x 21 ft. roll Stainless Steel (304 Grade)	10	50



### 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	.	/	-

PANDUIT® Part No.	Description	Pkg. 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	Interchangeable Character Wheel Kits 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. MT series and the aluminum marker plates.	1

### CUSTOM MARKING SERVICE ON STAINLESS STEEL TIES, MARKER PLATES AND TAGS AND ANODIZED ALUMINUM LOCKS\*



- High quality, sharp, crisp legends
- Bar coding capability on selected color tags
- Two (2) computer controlled systems available: Laser and Embosser
- Alphanumeric and sequential numbering for serialization
- Contact factory for information

\*Anodized aluminum locks can only be marked by the Laser System.

### COMPUTER CONTROLLED MARKING SYSTEMS



#### LASER MARKING SYSTEM

#### LASER MARKING SYSTEM:

Graphics capabilities along with block letters (bold) are available for high quality identification

along with bar coding on selected colored stainless steel marker tags. Also, alphanumeric and sequential numbering with multiple character sizes to choose from. The laser system provides both upper and lower case characters. Character sizes available: 1/8" (3.18mm) (shown), 3/16" (4.77mm), 1/4" (6.35mm), 5/16" (7.94mm) and 1/2" (12.7mm).\* The laser is the ultimate in marking.



#### EMBOSSING SYSTEM

#### EMBOSSING

**SYSTEM:** Excellent for applications that will be exposed to occasional painting and excessive dirt. Can only be used on stainless steel and brass

marker plates and tags that are a maximum of .020" (.508mm) thick. Alphanumeric and sequential numbering capability. The embossing system provides upper case characters only. Character sizes available: 1/8" (3.18mm) and 3/16" (4.77mm) (shown).



\*Other character sizes available. Contact factory.

# PANDUIT® Stainless Steel Strapping

## Stainless Steel Strapping



### REPLACES TRADITIONAL WING SEAL STRAPS

- Suited to applications requiring higher loop tensile strength and/or wider bearing surfaces than **PAN-STEEL™** ties
- Fast and easy to install using **PANDUIT** installation tool
- Safe to handle—no sharp edges

## STRAPPING Standard Sizes



- Suited to applications requiring higher loop tensile strength and/or wider bearing surfaces than **PAN-STEEL** ties
- Fast and easy to install using **PANDUIT** installation tool.
- Safe to handle—no sharp edges
- Buckle design provides low finished profile—after tensioning, cut end is locked inside buckle
- Standard material is 304 stainless, non-magnetic

\*Nylon coated straps available. Contact factory.

<b>PANDUIT®</b> Part No.	Max. Bundle Dia. In. (mm)	Approx. Length In. (mm)	Approx. Width In. (mm)	Min. Loop Tensile Strength lbs. (n)	Std. Pkg. Qty.	Std. Ctn. Qty.
<b>304 STAINLESS STEEL - .015" THICK</b>						
MS2X375X15-LS	2.00 (50)	10.5 (266)	.375 (10)	300 (1335)	50	250
MS4X375X15-LS	4.00 (102)	16.2 (412)			50	250
MS6X375X15-LS	6.00 (152)	22.5 (572)			50	250
MS8X375X15-LS	8.00 (203)	28.7 (729)			50	250
MS10X375X15-LS	10.00 (254)	35.0 (889)			50	250
MS4X500X15-LS	4.00 (102)	16.2 (412)	.500 (12)	500 (2224)	50	250
MS6X500X15-LS	6.00 (152)	22.5 (572)			50	250
MS8X500X15-LS	8.00 (203)	28.7 (729)			50	250
MS10X500X15-LS	10.00 (254)	35.0 (889)			50	250
MS4X625X15-LS	4.00 (102)	16.2 (412)	.625 (16)	600 (2670)	50	250
MS6X625X15-LS	6.00 (152)	22.5 (572)			50	250
MS8X625X15-LS	8.00 (203)	28.7 (729)			50	250
MS10X625X15-LS	10.00 (254)	35.0 (889)			50	250
<b>304 STAINLESS STEEL - .020" THICK</b>						
MS4X500X20-LS	4.00 (102)	16.2 (412)	.500 (12)	500 (2224)	50	250
MS6X500X20-LS	6.00 (152)	22.5 (572)			50	250
MS8X500X20-LS	8.00 (203)	28.7 (729)			50	250
MS10X500X20-LS	10.00 (254)	35.0 (889)			50	250

## Custom Length Strapping System



- Provides job-site versatility with minimum inventory
- Gives custom capability on larger diameters
- 304 stainless steel
- Buckle is easy to install—just slip onto strapping and turn strapping back on bundle

<b>PANDUIT®</b> Part No.	Thickness In. (mm)	Approx. Width In. (mm)	Used With Buckle	Std. Pkg. Qty.	Std. Ctn. Qty.
<b>STRAPPING</b>					
MS375X15-TSR	.015 (0.4)	.375 (10)	MSB375	200*	—
MS500X15-TSR	.015 (0.4)	.500 (12)	MSB500	200*	—
MS500X20-TSR	.020 (0.5)	.500 (12)	MSB500	200*	—
MS625X15-TSR	.015 (0.4)	.625 (16)	MSB625	200*	—
<b>BUCKLE</b>					
MSB375-CS	Used with .375" width strapping			100	1000
MSB500-CS	Used with .500" width strapping			100	1000
MSB625-CS	Used with .625" width strapping			100	1000

\*Standard Package - TSR = 200 ft. reel. Order the number of reels required. Order the number of bundles required, in multiples of std. pkg. qty.

## INSTALLATION TOOL



BT2MS75

- Replacement nose and gripper provide an economical means to keep tool operating efficiently in the future

<b>PANDUIT®</b> Part No.	Description	Pkg. Qty.
BT2MS75	Tensions, cuts strapping and secures the buckle tab. Used with all widths and thicknesses of <b>PANDUIT</b> strapping	1
BT2N75	Replacement nose section for BT2MS75 tool	1
KT2MG	Replacement tension gripper for BT2MS75 tool	1



# Wiring Accessories



Adhesive Backed Cable Tie Mounts



Marker Plates and Pens



Tie Mounts and Anchors



Push Mounts



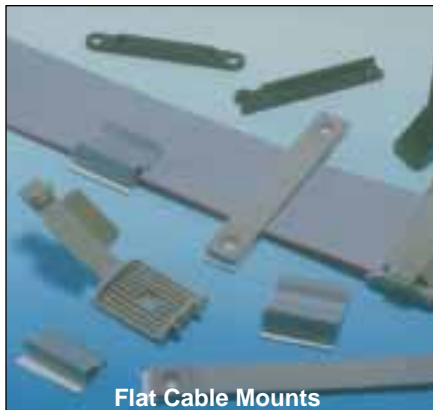
Cord Clips



Abrasion Protection Products



Snap-In Clips



Flat Cable Mounts



Harness Board Accessories

## Smart Ways to Lower Your Installed Cost

**PANDUIT® Wiring Accessories** offer you a complete selection of intelligent answers designed to speed installation and lower your installed costs—whatever your requirements. Plus **PANDUIT** 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 call toll-free:

**888-506-5400, Ext. 7346 or 708-532-1800**

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# PANDUIT® Wiring Accessories

Wiring Accessories are an integral part of Panduit's comprehensive selection of wire management products. These accessories help provide you with the lowest installed solution to controlling, mounting and protecting wire and cable. 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



Contact the factory for registrar and product scope information.

- PANDUIT teams up with a national network of Distributors to provide you with Just In Time shipping to eliminate your need for large inventories
- Fully staffed engineering and tool & 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** Cable Ties to speed and simplify the mounting of wires, cables and tubing. Installation methods include self-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 self-adhesive-backed, user applied adhesive, screws, rivets or through-panel designs.



### Harness Board Accessories

Panduit's 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 **PANDUIT** manual and automatic cable tie tooling.

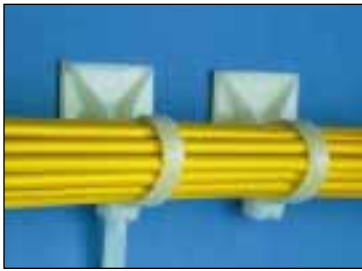


### Abrasion Protection Products

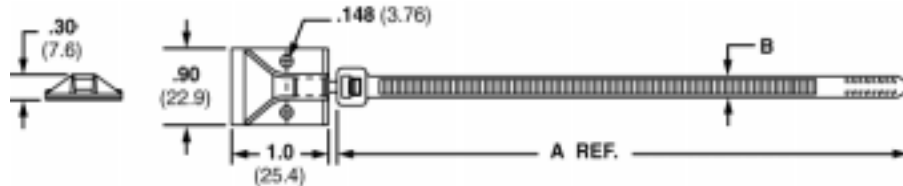
Spiral wrapping, braided expandable sleeving and corrugated tubing enclose wires, hoses and tubing to protect them from abrasion. They are available in a variety of sizes and materials to meet a broad range of indoor and outdoor applications.

Grommet edging provides abrasion protection on outside edges and holes cut through metal or plastic surfaces.

## Combination Adhesive Mount/Cable Tie



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.



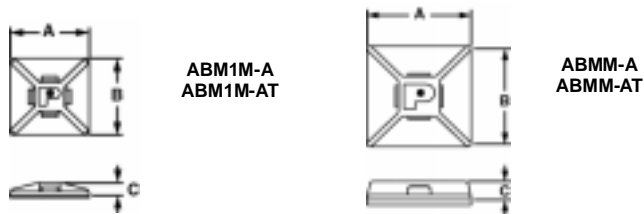
Part Number†	Cable Tie Specifications				Recommended PANDUIT® Installation Tool	Mount Static Load	Packaging*			
	Length A In. (mm)	Width B In. (mm)	Max. Bundle Dia. In. (mm)	Min. Loop Tensile Strength Lbs. (N)			Std. Pkg. Qty.	Std. Ctn. Qty.	Bulk Pkg. Qty.	Bulk Ctn. Qty.
Locking PLA2S-A-Q	7.3 (185)	.19 (4.8)	1.85 (47)	50 lbs. (222N)	GS2B, GS4H, PPTS, STS2 or STH2	.45 lbs. (204g)	25	250	100	1000
Releasable PRA2S-A-Q	7.3 (185)	.19 (4.8)	1.85 (47)	50 lbs. (222N)	Hand Installed Only	.45 lbs. (204g)	25	250	100	1000

## 4-Way Adhesive Backed Mounts



Lower your installed costs with fast, easy-to-install **PANDUIT** adhesive-backed cable tie mounts. Four-way tie entry for easy orientation of wires or cables.

For specific information on adhesive properties and technical data on mount selection, see [Pages 115 to 120](#).



**PANDUIT** mounts are produced either 2-up or 4-up for fast and easy liner removal to speed installation.

ABM1M-A and ABM1M-AT mounts are supplied on a dispenser strip of four mounts. ABMM-A and ABMM-AT mounts are supplied on a dispenser strip of two mounts.

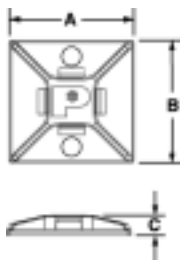
Part Number†	Used With Cable Ties**	Dimensions inches (mm)			Material	Color	Where Used	Adhesive Type/Static Load lbs. (g)	Packaging*			
		A	B	C					Std. Pkg. Qty.	Std. Ctn. Qty.	Bulk Pkg. Qty.	Bulk Ctn. Qty.
<b>ABM1M-A-C</b>	M	.50 (12.7)	.50 (12.7)	.16 (4.0)	Nylon	White	Indoors	Rubber .13 (59)	100	500	1000	5000
<b>ABM1M-AT-C</b>	M	.50 (12.7)	.50 (12.7)	.16 (4.0)	Nylon	White	Indoors/ High Temp.	Acrylic .13 (59)	100	500	1000	5000
<b>ABMM-A-C</b>	M,I	.75 (19.1)	.75 (19.1)	.18 (4.6)	ABS	White	Indoors	Rubber .30 (136)	100	500	500	5000
<b>ABMM-AT-C</b>	M,I	.75 (19.1)	.75 (19.1)	.18 (4.6)	ABS	White	Indoors/ High Temp.	Acrylic .30 (136)	100	500	500	5000
<b>ABMM-AT-CO</b>	M,I	.75 (19.1)	.75 (19.1)	.18 (4.6)	ABS	Black	Outdoors/ High Temp.	Acrylic .30 (136)	100	500	500	5000

Most commonly used parts appear in **BOLD**.



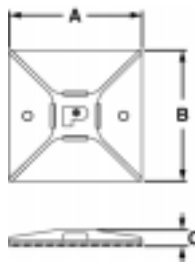
# PANDUIT® Adhesive Backed Cable Tie Mounts

## 4-Way Adhesive Backed Mounts



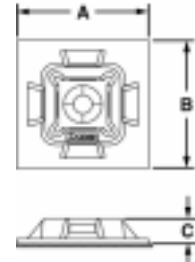
**ABM2S**

For greater support use two (2) #6 (M3) screws in mounting holes. Supplied two mounts on a dispenser strip.



**ABM3H  
ABM4H**

For greater support use two (2) #6 (M3) screws in mounting holes.



**ABM100**

For greater support use one (1) #6 (M3) screw in mounting hole. Supplied two mounts on a dispenser strip.

Part Number†	Used With Cable Ties**	Dimensions inches (mm)			Material	Color	Where Used	Adhesive Type/Static Load lbs. (g)	Packaging*			
		A	B	C					Std. Pkg. Qty.	Std. Ctn. Qty.	Bulk Pkg. Qty.	Bulk Ctn. Qty.
<b>ABM2S-A-C</b>	M, I, S	1.00 (25.4)	1.00 (25.4)	.20 (5.1)	ABS	White	Indoors	Rubber .50 (227)	100	500	500	5000
<b>ABM2S-A-C14</b>	M, I, S	1.00 (25.4)	1.00 (25.4)	.20 (5.1)	ABS	Gray	Indoors	Rubber .50 (227)	100	500	500	5000
<b>ABM2S-A-C15</b>	M, I, S	1.00 (25.4)	1.00 (25.4)	.20 (5.1)	ABS	Ivory	Indoors	Rubber .50 (227)	100	500	500	5000
<b>ABM2S-AT-C</b>	M, I, S	1.00 (25.4)	1.00 (25.4)	.20 (5.1)	ABS	White	Indoors/High Temp.	Acrylic .50 (227)	100	500	500	5000
<b>ABM2S-AT-C0</b>	M, I, S	1.00 (25.4)	1.00 (25.4)	.20 (5.1)	ABS	Black	Outdoors/High Temp.	Acrylic .50 (227)	100	500	500	5000
<b>ABM3H-A-L</b>	M, I, S, LH, H	1.50 (38.1)	1.50 (38.1)	.25 (6.4)	Nylon	White	Indoors	Rubber 1.12 (508)	50	500	200	1000
<b>ABM3H-AT-L</b>	M, I, S, LH, H	1.50 (38.1)	1.50 (38.1)	.25 (6.4)	Nylon	White	Indoors/High Temp.	Acrylic 1.12 (508)	50	500	200	1000
<b>ABM4H-A-L</b>	M, I, S, LH, H	2.00 (50.8)	2.00 (50.8)	.25 (6.4)	Nylon	White	Indoors	Rubber 2.0 (907)	50	500	200	1000
<b>ABM4H-AT-L</b>	M, I, S, LH, H	2.00 (50.8)	2.00 (50.8)	.25 (6.4)	Nylon	White	Indoors/High Temp.	Acrylic 2.0 (907)	50	500	200	1000
<b>ABM100-A-C</b>	M, I, S	1.00 (25.4)	1.00 (25.4)	.24 (6.1)	Nylon	White	Indoors	Rubber .50 (227)	100	500	500	5000
<b>ABM100-A-C14</b>	M, I, S	1.00 (25.4)	1.00 (25.4)	.24 (6.1)	Nylon	Gray	Indoors	Rubber .50 (227)	100	500	500	5000
<b>ABM100-A-C15</b>	M, I, S	1.00 (25.4)	1.00 (25.4)	.24 (6.1)	Nylon	Ivory	Indoors	Rubber .50 (227)	100	500	500	5000
<b>ABM100-AT-C0</b>	M, I, S	1.00 (25.4)	1.00 (25.4)	.24 (6.1)	Nylon	Black	Outdoors/High Temp.	Acrylic .50 (227)	100	500	500	5000

Most commonly used parts appear in **BOLD**.

## 4-Way Mounts Without Adhesive



Except ABM100-S6-C69

Part Number†	Used With Cable Ties**	Dimensions inches (mm)			Material	Color	Where Used	Mounting Method	Packaging*			
		A	B	C					Std. Pkg. Qty.	Std. Ctn. Qty.	Bulk Pkg. Qty.	Bulk Ctn. Qty.
<b>ABMM-D</b>	M, I	.75 (19.1)	.75 (19.1)	.14 (3.6)	ABS	White	Indoors	User supplied adhesive	—	—	500	5000
<b>ABM2S-S6-D</b>	M, I, S	1.00 (25.4)	1.00 (25.4)	.16 (4.0)	ABS	White	Indoors	User supplied adhesive and/or (2) #S6 Screws	—	—	500	5000
<b>ABM3H-S6-T</b>	M, I, S, LH, H	1.50 (38.1)	1.50 (38.1)	.21 (5.3)	Nylon	White	Indoors		—	—	200	1000
<b>ABM4H-S6-T</b>	M, I, S, LH, H	2.00 (50.8)	2.00 (50.8)	.21 (5.3)	Nylon	White	Indoors		—	—	200	1000
<b>ABM100-S6-C</b>	M, I, S	1.00 (25.4)	1.00 (25.4)	.20 (5.1)	Nylon	White	Indoors	User supplied adhesive	100	1000	500	5000
<b>ABM100-S6-C69</b>	M, I, S	1.00 (25.4)	1.00 (25.4)	.20 (5.1)	Flame Retard. Nylon	Cream	Indoors	User supplied adhesive and/or (1) #S6 Screw	100	1000	500	5000

Most commonly used parts appear in **BOLD**.

\*Order the Number of Pieces Required in Multiples of Packaging Quantities.

†Part Numbers listed are for Standard Materials in Standard Package Quantity. For Bulk Package Part Numbers, see [Pages 128 & 129](#).

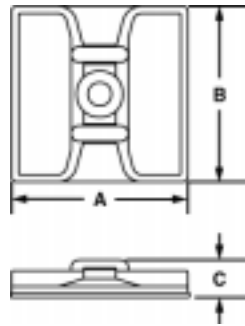
\*\*Cable Tie Cross Section Sizes: M = Miniature, I = Intermediate, S = Standard, LH = Light Heavy and H = Heavy.

# PANDUIT® Adhesive Backed Cable Tie Mounts

## 2-Way Mounts



Cable ties may be inserted from either of two sides. Choose adhesive backed or screw installed mounts.



Use one (1) #6 screw with ABMS-S6.

For added support with adhesive backed mounts, use one (1) #6 (M3) screw or 1/4" flat head rivets.

ABMS-A mounts are supplied two mounts to a dispenser strip.



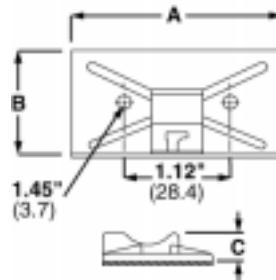
Part Number†	Used With Cable Ties**	Dimensions inches (mm)			Material	Color	Where Used	Mounting Method	Packaging*				
		A	B	C					Std. Pkg. Qty.	Std. Ctn. Qty.	Bulk Pkg. Qty.	Bulk Ctn. Qty.	
<b>Adhesive-Backed</b>													
<b>ABMS-A-C</b>	M, I, S	1.13 (28.7)	1.13 (28.7)	.25 (6.1)	Nylon	Natural	Indoors	Rubber Tape	100	500	500	5000	
<b>ABMS-AT-C</b>	M, I, S	1.13 (28.7)	1.13 (28.7)	.25 (6.1)			Indoors/ high. Temp.	Acrylic Tape	100	500	500	5000	
<b>Screw Mounted</b>													
<b>ABMS-S6-D</b>	M, I, S	1.13 (28.7)	1.13 (28.7)	.21 (5.3)	Nylon	Natural	Indoors	Screw Mount #6 (M3)	—	—	500	5000	

Most commonly used parts appear in **BOLD**.

## Snap-In Cable Tie Mount



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



SMS-A  
Adhesive  
backed

SMS-S  
Screw  
applied



Part Number†	Used With Cable Ties**	Dimensions inches (mm)			Material	Color	Where Used	Mounting Method	Packaging*				
		A	B	C					Std. Pkg. Qty.	Std. Ctn. Qty.	Bulk Pkg. Qty.	Bulk Ctn. Qty.	
<b>Adhesive Backed</b>													
<b>SMS-A-C</b>	S	2.00 (50.8)	1.00 (25.4)	.35 (8.9)	ABS	White	Indoors	Rubber Based Foam Tape	100	500	500	5000	
<b>SMS-A-C14</b>	S	2.00 (50.8)	1.00 (25.4)	.35 (8.9)	ABS	Gray Ivory	Indoors		100	500	500	5000	
<b>SMS-A-C15</b>							Indoors		100	500	500	5000	
<b>Screw Mounted</b>													
<b>SMS-S6-D</b>	S	2.00 (50.8)	1.00 (25.4)	.31 (7.9)	ABS	White	Indoors	(2) S6 (M3)	—	—	500	5000	
<b>SMS-S6-D15</b>	S	2.00 (50.8)	1.00 (25.4)	.31 (7.9)	ABS	Ivory	Indoors		—	—	500	5000	

† Recommended cable ties: PLT1S, PLT1.5S, PLT2S, PPRT1.5S, PRT2S.  
Tie colors available to match SMS mounts.

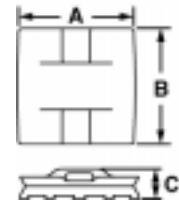
Most commonly used parts appear in **BOLD**.

# PANDUIT® Epoxy Applied Mounts

## Epoxy Applied Mounts



These mounts are designed for application with **PANDUIT** EMA Epoxy. Provides 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 where they eliminate the need to drill into surfaces.



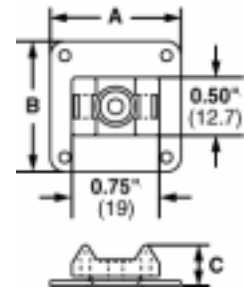
Part Number†	Used With Cable Ties**	Dimensions inches (mm)			Material	Where Used	Mounting Method	Max. Static Load lbs. (g)‡	Packaging*			
		A	B	C					Std. Pkg. Qty.	Std. Ctn. Qty.	Bulk Pkg. Qty.	Bulk Ctn. Qty.
EMS-A-C	M, I, S	1.00 (25.4)	1.00 (25.4)	.26 (6.6)	Natural Nylon	Indoors	EMA Epoxy	10 (4540)	100	500	500	1000
EMS-A-C0	M, I, S	1.00 (25.4)	1.00 (25.4)	.26 (6.6)	Weather Resistant Blk. Nylon	Outdoors		10 (4540)	100	500	500	5000

‡Max. static load rating, following full cure period, when applied with **PANDUIT** EMA Epoxy Adhesive according to installation instructions.

## Epoxy Applied Swivel Mount



Mount swivels 360° to assure proper orientation with harness. Four inspection holes to check adhesive coverage.  
Material — **Base and Rivet:** Aluminum;  
**Mount:** Nylon



ASMS-A-X	M, I, S	1.125 (28.6)	1.125 (28.6)	.35 (8.9)	Aluminum Base	Indoors/ Outdoors	EMA Epoxy	10 (4540)	10	50	200	1000
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## Epoxy Adhesive and Mount Kits



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

EMA Epoxy supplied in convenient two-compartment mixer cup with a mixer stick for each cup. Each cup contains adhesive for three (3) EMA 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.



EMA EPOXY



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

Part Number	Used With Cable Ties**	Where Used	Contents of Each Kit				Std. Pkg. Qty.	Bulk Pkg. Qty.
			Epoxy Cups	Mixer Sticks	EMS Mounts	Cable Ties		
<b>Epoxy Adhesive only</b>								
EMA-X	—	Indoor/ Outdoor	10	10	None	None	10 Kits	—
<b>Epoxy Mounting Kit with EMA Mounts</b>								
EMSK3-1-X0	M, I, S	Indoor/ Outdoor	1	1	3	None	10 Kits	100 Kits
<b>Epoxy Mounting Kit with EMA Mounts and Cable Ties</b>								
EMSK3-1-3-0	M, I, S	Indoor/ Outdoor	1	1	3	3 ea. PLT2S-0	1 Kit	10 Kits
EMSK12-4-12-X0	M, I, S		4	4	12	12 ea. PLT2S-0	10 Kits	100 Kits

\*Order the Number of Pieces Required in Multiples of Packaging Quantities.

†Part Numbers listed are for Standard Materials in Standard Package Quantity. For Bulk Package Part Numbers, see [Pages 128 & 129](#).

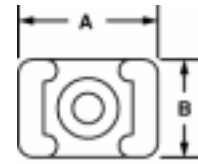
\*\*Cable Tie Cross Section Sizes: M = Miniature, I = Intermediate, S = Standard, LH = Light Heavy and H = Heavy.

# PANDUIT® Cable Tie Mounts

## Tie Mounts — Mechanically Applied



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



Except  
TM1S4-M69  
TM2S8-C100  
TM2S8-M120  
TM3S8-C69  
TM3S8-C100  
TM3S8-C702

Part Number†	Used With Cable Ties**	Dimensions inches (mm)			Material	Color	Where Used	Mounting Method	Packaging*			
		A	B	C					Std. Pkg. Qty.	Std. Ctn. Qty.	Bulk Pkg. Qty.	Bulk Ctn. Qty.
<b>TM1S4-C</b>	M	.513 (13.0)	.316 (8.0)	.230 (5.8)	Nylon	Natural	Indoors	#4 (M2.5) Screw	100	500	1000	5000
<b>TM1S6-C</b>	M	.513 (13.0)	.316 (8.0)	.230 (5.8)			Indoors	#6 (M3) Screw	100	500	1000	5000
<b>TM1S4-M30</b>	M	.513 (13.0)	.316 (8.0)	.230 (5.8)	Heat Stabilized Nylon	Black	Indoors	#4 (M2.5) Screw	—	—	1000	—
<b>TM1S4-M69</b>	M	.513 (13.0)	.316 (8.0)	.230 (5.8)		Ivory	Indoors	#4 (M2.5) Screw	—	—	1000	—
<b>TM2S6-C</b>	M, I, S	.630 (16.0)	.425 (10.8)	.275 (7.0)	Nylon	Natural	Indoors	#6 (M3) Screw	100	500	1000	5000
<b>TM2S8-C</b>	M, I, S	.630 (16.0)	.425 (10.8)	.275 (7.0)			Indoors	#8 (M4) Screw	100	500	1000	5000
<b>TM2R-C</b>	M, I, S	.630 (16.0)	.425 (10.8)	.275 (7.0)			Indoors	#6 (M3) Rivet Countersunk	100	500	1000	5000
<b>TM2R6-M0</b>	M, I, S	.630 (16.0)	.425 (10.8)	.275 (7.0)	Weather-Resistant Nylon	Black	Outdoors	#6 (M3) Rivet Countersunk	—	—	1000	—
<b>TM2S8-C100</b>	M, I, S	.585 (14.9)	.375 (9.5)	.275 (7.0)	Weather Resistant Polypropylene	Black	Outdoors	#8 (M4) Screw	100	500	1000	5000
<b>TM2S8-M120</b>	M, I, S	.630 (16.0)	.425 (10.8)	.275 (7.0)	Nylon 12	Black	Outdoors	#8 (M4) Screw	—	—	1000	—
<b>TM3S8-C</b>	M, I, S, LH	.875 (22.2)	.620 (15.8)	.375 (9.5)	Nylon	Natural	Indoors	#8 (M4) Screw	100	500	1000	5000
<b>TM3S10-C</b>	M, I, S, LH	.875 (22.2)	.620 (15.8)	.375 (9.5)			Indoors	#10 (M5) Screw	100	500	1000	5000
<b>TM3S25-C</b>	M, I, S, LH	.875 (22.2)	.620 (15.8)	.375 (9.5)			Indoors	1/4" (M6) Screw	100	500	1000	5000
<b>TM3R6-C</b>	M, I, S, LH	.875 (2.2)	.620 (15.8)	.375 (9.5)			Indoors	#6 (M3) Rivet Countersunk	100	500	1000	5000
<b>TM3S8-C69</b>	M, I, S, LH	.875 (22.2)	.620 (15.8)	.375 (9.5)	Flame Retardant Nylon	Ivory	Indoors	#8 (M4) Screw	—	—	100	—
<b>TM3S8-C76</b>	M, I, S, LH	.875 (22.2)	.620 (15.8)	.375 (9.5)	TEFZEL■	Aqua	Indoors	#8 (M4) Screw	—	—	100	—
<b>TM3S10-C76</b>	M, I, S, LH	.875 (22.2)	.620 (15.8)	.375 (9.5)	TEFZEL	Aqua	Indoors	#10 (M5) Screw	—	—	100	—
<b>TM3S8-C100</b>	M, I, S, LH	.875 (22.2)	.620 (15.8)	.375 (9.5)	Weather Resistant Polypropylene	Black	Outdoors	#8 (M4) Screw	100	500	1000	5000
<b>TM3S8-C702</b>	M, I, S, LH	.875 (22.2)	.620 (15.8)	.375 (9.5)	HALAR▲	Maroon	Indoors/Outdoors	#8 (M4) Screw	—	—	100	—

Most commonly used parts appear in **BOLD**.

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

Additional Tie Mount Part Numbers Available in specified materials. All are available as standard <b>PANDUIT®</b> parts					
Heat Stabilized Nylon	Flame Retardant Nylon	Weather-Resistant Nylon	Weather-Resistant Polypropylene	TEFZEL	Nylon 12
<b>TM1S6-M30</b> <b>TMSR6-M30</b> <b>TM2S6-M30</b> <b>TM2S8-M30</b> <b>TM3R6-M30</b> <b>TM3S8-M30</b> <b>TM3S10-M30</b> <b>TM3S25-M30</b>	<b>TM1S6-M69</b> <b>TM2S6-M69</b> <b>TM2S8-M69</b> <b>TM3S8-C69</b> <b>TM3S8-M69</b>	<b>TM1S6-M0</b> <b>TM2R6-M0</b> <b>TM2S6-M0</b> <b>TM2S8-M0</b> <b>TM3R6-M0</b> <b>TM3S10-Q0</b> <b>TM3S10-M0</b> <b>TM3S25-M0</b>	<b>TM2S8-M100</b> <b>TM3S8-C100</b> <b>TM3S8-M100</b>	<b>TM3S10-C76</b>	<b>TM3S8-M120</b>

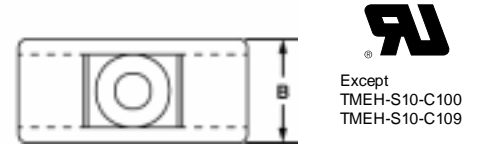
# PANDUIT® Cable Tie Mounts

## Extra Heavy Tie Mounts

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



Part Number	Hole Diameter	Counterbore Diameter
<b>TMEHS8</b>	.18" (4.3 mm)	.51" (13.0)
<b>TMEHS10</b>	.20" (5.1 mm)	.51" (13.0)
<b>TMEH25</b>	.26" (6.6 mm)	.51" (13.0)



Except  
TMEH-S10-C100  
TMEH-S10-C109

Part Number†	Used With Cable Ties**	Dimensions inches (mm)			Material	Color	Where Used	Mounting Method	Packaging*			
		A	B	C					Std. Pkg. Qty.	Std. Ctn. Qty.	Bulk Pkg. Qty.	Bulk Ctn. Qty.
<b>TMEH-S8-Q0</b>	EH	1.65 (42)	.74 (19)	.61 (15)	Weather-Resistant Nylon	Black	Outdoors	#8 (M4) Screw	25	250	100	500
<b>TMEH-S10-Q0</b>	EH	1.65 (42)	.74 (19)	.61 (15)			Outdoors	#10 (M5) Screw	25	250	100	500
<b>TMEH-S25-Q0</b>	EH	1.65 (42)	.74 (19)	.61 (15)			Outdoors	1/4" (M6) Screw	25	250	100	500
<b>TMEH-S10-C100</b>	EH	1.65 (42)	.74 (19)	.61 (15)	Weather-Resistant Polypropylene	Black	Outdoors	#10 (M5) Screw	—	—	100	500
<b>TMEH-S10-C109</b>	EH	1.65 (42)	.74 (19)	.61 (15)	Polypropylene	Green	Indoors	#10 (M5) Screw	—	—	100	500

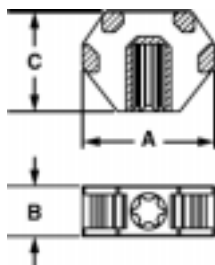
Most commonly used parts appear in **BOLD**.

## Stud Tie Mounts

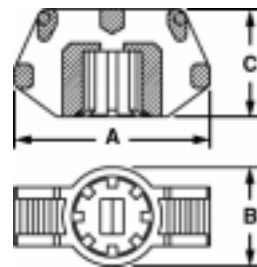
Easily applied to bolts or studs with a light hammer blow or turning of the mount. The mounts are designed for use with cable ties to mount wire bundles, air, water and hydraulic lines.



TMSTLHS Type



TMSTHS Type



Part Number†	Used With Cable Ties**	Dimensions inches (mm)			Material	Color	Where Used	Mounting Method	Packaging*			
		A	B	C					Std. Pkg. Qty.	Std. Ctn. Qty.	Bulk Pkg. Qty.	Bulk Ctn. Qty.
<b>TMSTLHS6-C0</b>	M, I, S, LH	1.25 (31.8)	0.48 (12.2)	0.95 (24.1)	Weather Resistant Nylon	Black	Outdoors	1/4" Stud Dia. (6M)	100	1000	1000	5000
<b>TMSTLHS8-C0</b>	M, I, S, LH	1.25 (31.8)	0.48 (12.2)	0.95 (24.1)				5/16" Stud Dia. (8M)	100	1000	1000	5000
<b>TMSTHS13-C0</b>	M, I, S, LH, H	1.99 (50.6)	1.01 (25.6)	1.10 (27.9)				1/2" Stud Dia. (13M)	100	1000	500	500
<b>TMSTHS16-C0</b>	M, I, S, LH, H	1.99 (50.6)	1.01 (25.6)	1.10 (27.9)				5/8" Stud Dia. (16M)	100	1000	500	500
<b>TMSTHS19-C0</b>	M, I, S, LH, H	1.99 (50.6)	1.01 (25.6)	1.10 (27.9)				3/4" Stud Dia. (19M)	100	1000	500	500

\*Order the Number of Pieces Required in Multiples of Packaging Quantities.

†Part Numbers listed are for Standard Materials in Standard Package Quantity. For Bulk Package Part Numbers, see [Pages 128 & 129](#).

\*\*Cable Tie Cross Section Sizes: M = Miniature, I = Intermediate, S = Standard, LH = Light Heavy, H = Heavy and EH = Extra Heavy.



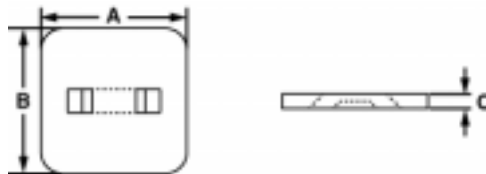
# PANDUIT® Cable Tie Mounts

## 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 Mount - AM2

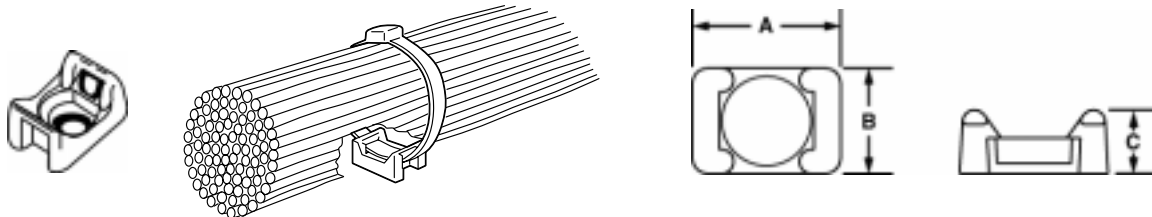
Low profile design keeps bundle close to mounting surface where overhead space is limited.



Part Number†	Used With Cable Ties**	Dimensions Inches (mm)			Material	Color	Where Used	Mounting Method	Packaging*			
		A	B	C					Std. Pkg. Qty.	Std. Ctn. Qty.	Bulk Pkg. Qty.	Bulk Ctn. Qty.
AM2-C	M, I, S	1.24 (31.5)	1.24 (31.5)	.125 (3.2)	Nylon	Natural	Indoors	Cyanoacrylic Adhesive	100	500	1000	—

### TM1A, TM2A, TM3A

Solid flat bottom surface provides maximum holding area.



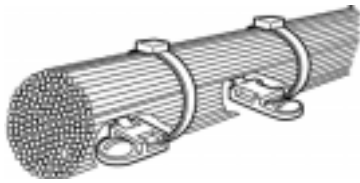
TM1A-C	M	.512 (13.0)	.325 (8.0)	.230 (5.8)	Nylon	Natural	Indoors	Cyanoacrylic Adhesive	100	500	1000	—
TM2A-C	M, I, S	.830 (16.0)	.425 (10.8)	.270 (6.9)			Indoors		100	500	1000	—
TM3A-C	M, I, S, H	.875 (22.2)	.625 (15.9)	.380 (9.7)			Indoors		100	500	1000	—



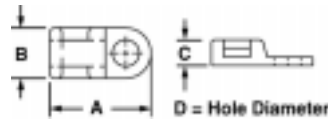
# PANDUIT® Cable Tie Mounts

## Tie Anchor Mounts

### TA1 Anchor



**RU**  
Except  
TA1S8-M69

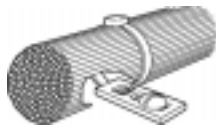


TA1S8 is also available in:  
Heat-stabilized Nylon: TA18-M30  
Flame-resistant Nylon: TA1S8-M69  
Weather-resistant Nylon: TA1S8-M0  
TA1S10 is also available in:  
Weather-resistant Nylon: TA1S10-M0

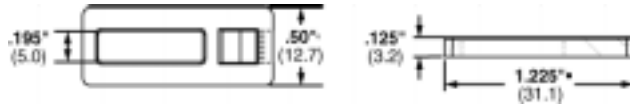
Part Number†	Used With Cable Ties**	Dimensions inches (mm)				Material	Color	Where Used	Mounting Method	Packaging*			
		A	B	C	D					Std. Pkg. Qty.	Std. Ctn. Qty.	Bulk Pkg. Qty.	Bulk Ctn. Qty.
<b>TA1S8-C</b>	M, I, S	.75 (19.1)	.375 (9.5)	.195 (5.0)	.170 (4.3)	Nylon	Natural	Indoors	#8 (M4) Screw	100	500	1000	5000
<b>TA1S10-C</b>	M, I, S	.75 (19.1)	.375 (9.5)	.195 (5.0)	.200 (5.1)			Indoors	#10 (M5) Screw	100	500	1000	5000
<b>TA1S8-M30</b>	M, I, S	.75 (19.1)	.375 (9.5)	.195 (5.0)	.170 (4.3)	Heat Sta. Nylon	Black	Indoors	#8 (M4) Screw	—	—	1000	5000
<b>TA1S8-M69</b>	M, I, S	.75 (19.1)	.375 (9.5)	.195 (5.0)	.170 (4.3)	Flame Ret. Nylon	Ivory	Indoors	#8 (M4) Screw	—	—	1000	5000

Most commonly used parts appear in **BOLD**.

### TA2 Anchor



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



<b>TA2-C</b>	M, I, S	See Drawing	Nylon	Natural	Indoors	#10 (M5) Screw	100	500	1000	—
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## Low Profile Mounts

### Screw Applied Low Profile Mounts

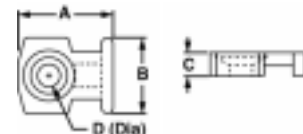
Designed to secure wire bundles where space is limited.



LPMM



LPMS



<b>LPMM-S2-C</b>	M	.40 (10.2)	.32 (8.1)	.10 (2.5)	.096 <sup>1</sup> (2.4)	Nylon	Natural	Indoors	#2 (M2) Flat-head Screw	100	1000	1000	—
<b>LPMM-S5-C</b>	M	.40 (10.2)	.32 (8.1)	.10 (2.5)	.137 <sup>2</sup> (3.5)			Indoors	#5 (M3) Flat-head Screw	100	1000	1000	—
<b>LPMS-S8-C</b>	M, I, S	.75 (19.1)	.50 (12.7)	.12 (3.0)	.180 <sup>2</sup> (4.6)			Indoors	#8 (M4) Flat-head Screw	100	1000	1000	5000

<sup>1</sup>Combination Counter Bore & Counter Sunk Hole (.088" (2.2) Dia. Rivet can also be used) <sup>2</sup>Counter Sunk  
Most commonly used parts appear in **BOLD**.

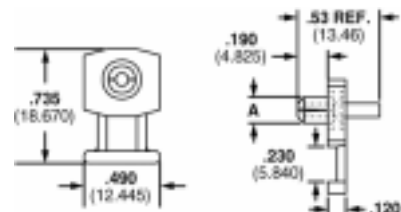
### Knock-In Low Profile Mounts

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** 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.



<b>KIMS-H366-C2</b>	M, I, S	.155 (3.9)	See Drawing	.144 (3.7)	Nylon	Red	Indoors	Integral Push Rivet	100	500	1000	—
<b>KIMS-H430-C6</b>	M, I, S	.180 (4.6)	See Drawing	.169 (4.3)	Nylon	Blue	Indoors	Integral Push Rivet	100	1000	1000	—
<b>KIMS-H500-C4</b>	M, I, S	.202 (5.1)	See Drawing	.196 (5.0)	Nylon	Yellow	Indoors	Integral Push Rivet	100	500	1000	—

\*Order the Number of Pieces Required in Multiples of Packaging Quantities.

†Part Numbers listed are for Standard Materials in Standard Package Quantity. For Bulk Package Part Numbers, see [Pages 128 & 129](#).

\*\*Cable Tie Cross Section Sizes: M = Miniature, I = Intermediate, S = Standard, LH = Light Heavy and H = Heavy.

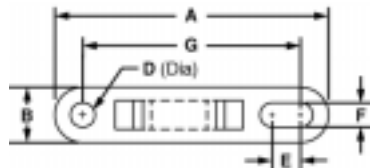
Most commonly used parts appear in **BOLD**.

# PANDUIT® Cable Tie Plates

## Tie Plates



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

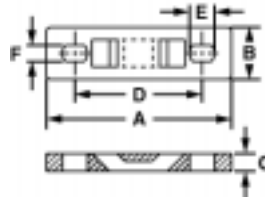
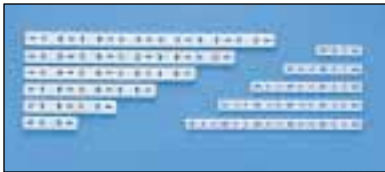
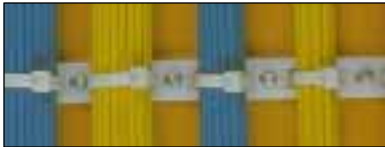


Part Number†	Used With Cable Ties**	Dimensions inches (mm)							Material & Color	Where Used	Mounting Method ‡ Screw Size	Packaging*			
		A	B	C	D	E	F	G				Std. Pkg. Qty.	Std. Ctn. Qty.	Bulk Pkg. Qty.	Bulk Ctn. Qty.
<b>TP2-C</b>	M, I, S	1.98 (50.3)	.50 (12.7)	.125 (3.2)	.200 (5.1)	.40 (10.2)	.200 (5.1)	1.60 (40.6)	Natural Nylon	Indoors	#10 (M5)	100	1000	1000	—
<b>TP4H-C</b>	M, I, S, H	3.08 (78.2)	.62 (15.7)	.203 (5.2)	.270 (6.9)	.31 (7.9)	.270 (6.9)	2.50 (63.5)		Indoors	1/4" (M6)	100	1000	500	—

Most commonly used parts appear in **BOLD**.

## Multiple Tie Plates

Screw applied. Used to secure closely spaced wire bundles.



Part Number†	No. of Blds.	Used With Cable Ties**	Dimensions inches (mm)						Material & Where Used	Mil. Std. Part No.	Mounting Method ‡ Screw Size	Packaging*			
			A	B	C	D	E	F				Std. Pkg. Qty.	Std. Ctn. Qty.	Bulk Pkg. Qty.	Bulk Ctn. Qty.
<b>MTP1S-E6-C</b>	1	M, I, S	1.75 (44.5)	.50 (12.7)	.125 (3.2)	1.25 (31.8)	.25 (6.4)	.145 (3.7)	Natural Nylon Used Indoors	MS3339-1	#6 (M3) #10 (M5)	—	—	100	1000
<b>MTP1S-E10-C</b>	1	M, I, S, H	2.09 (53.1)	.62 (15.7)	.203 (5.2)	1.50 (38.1)	.25 (6.4)	.145 (3.7)		MS3339-6	#6 (M3) #10 (M5)	—	—	100	—
<b>MTP2S-E6-C</b>	2	M, I, S	3.00 (76.2)	.50 (12.7)	.125 (3.2)	1.25 (31.8)	.25 (6.4)	.145 (3.7)		MS3339-2	#6 (M3) #10 (M5)	—	—	100	1000
<b>MTP2S-E10-C</b>	2	M, I, S, H	3.59 (91.2)	.62 (15.7)	.203 (5.2)	1.50 (38.1)	.25 (6.4)	.145 (3.7)		MS3339-7	#6 (M3) #10 (M5)	—	—	100	—
<b>MTP3S-E6-C</b>	3	M, I, S	4.25 (108.0)	.50 (12.7)	.125 (3.2)	1.25 (31.8)	.25 (6.4)	.145 (3.7)		MS3339-3	#6 (M3) #10 (M5)	—	—	100	—
<b>MTP3S-E10-C</b>	3	M, I, S, H	5.09 (129.3)	.62 (15.7)	.203 (5.2)	1.50 (38.1)	.25 (6.4)	.145 (3.7)		MS3339-8	#6 (M3) #10 (M5)	—	—	100	—
<b>MTP4S-E6-C</b>	4	M, I, S	5.50 (139.7)	.50 (12.7)	.125 (3.2)	1.25 (31.8)	.25 (6.4)	.145 (3.7)		MS3339-4	#6 (M3) #10 (M5)	—	—	100	—
<b>MTP4S-E10-C</b>	4	M, I, S, H	6.59 (167.4)	.62 (15.7)	.203 (5.2)	1.50 (38.1)	.25 (6.4)	.145 (3.7)		MS3339-9	#6 (M3) #10 (M5)	—	—	100	—
<b>MTP5S-E6-C</b>	5	M, I, S	6.75 (171.5)	.50 (12.7)	.125 (3.2)	1.25 (31.8)	.25 (6.4)	.145 (3.7)		MS3339-5	#6 (M3) #10 (M5)	—	—	100	—
<b>MTP5S-E10-C</b>	5	M, I, S, H	8.09 (205.5)	.62 (15.7)	.203 (5.2)	1.50 (38.1)	.25 (6.4)	.145 (3.7)		MS3339-10	#6 (M3) #10 (M5)	—	—	100	—
<b>MTP6H-E6-C</b>	6	M, I, S, H	9.59 (243.6)	.62 (15.7)	.203 (5.2)	1.50 (38.1)	.25 (6.4)	.145 (3.7)		MS3339-11	#6 (M3) #10 (M5)	—	—	100	—
<b>MTP6H-E10-C</b>	6	M, I, S, H	9.59 (243.6)	.62 (15.7)	.203 (5.2)	1.50 (38.1)	.25 (6.4)	.145 (3.7)	MS3339-11	#6 (M3) #10 (M5)	—	—	100	—	

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

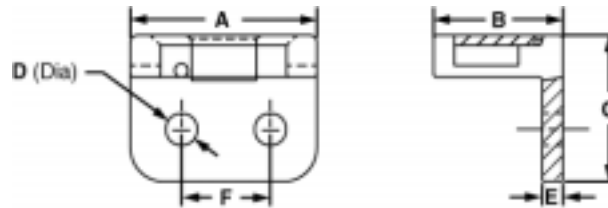
Most commonly used parts appear in **BOLD**.

# PANDUIT® Cable Tie Mounts

## Right Angle Mounts



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



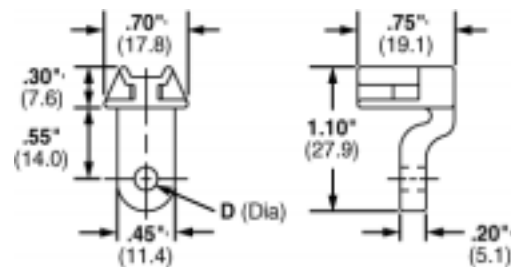
Part Number†	Used With Cable Ties**	Dimensions inches (mm)						Material & Where Used	Mil. Std. Part No.	Mounting Method Screw Size	Packaging*			
		A	B	C	D	E	F				Std. Pkg. Qty.	Std. Ctn. Qty.	Bulk Pkg. Qty.	Bulk Ctn. Qty.
<b>RAMS-S3-M</b>	M, I, S	.56 (14.2)	.39 (9.9)	.44 (11.2)	.095 (2.4)	.06 (1.5)	.281 (7.1)	Natural Nylon Used Indoors	MS3341-2	#3 Screw (M2.5) or 3/32" (2.4) Round Head Rivet	—	—	1000	—
<b>RAMH-S6-D</b>	M, I, S, H	1.00 (25.4)	.75 (19.1)	1.00 (25.4)	.125 (3.2)	.18 (4.6)	.500 (12.7)		MS3341-1	#6 Screw (M3) or 1/8" (3.2) Round Head Rivet	—	—	500	—
<b>RAMH-S10-D</b>	M, I, S, H	1.00 (25.4)	.75 (19.1)	1.00 (25.4)	.200 (5.1)	.18 (4.6)	.500 (12.7)		—	#10 Screw (M5) or 3/16" (4.7) Round Head Rivet	—	—	500	—

Most commonly used parts appear in **BOLD**.

## Lightening Hole Mounts



Used to secure wire bundles which run through bulkhead lightening holes (.87" [22.1mm] dia. or larger) and keeps the bundles away from sharp edges. Only one screw, rivet, or self-tapping screw needed.



Part Number†	Used With Cable Ties**	Dimensions inches (mm)		Material & Where Used	Mil. Std. Part No.	Mounting Method Screw Size	Packaging*				
			D				Std. Pkg. Qty.	Std. Ctn. Qty.	Bulk Pkg. Qty.	Bulk Ctn. Qty.	
<b>LHMS-S5-D</b>	M, I, S		.127 (3.2)	Natural Nylon Used Indoors	—	#5 Screw (M3) or 1/8" (3.2) or #6 (M3) Self-Tapping Screw	—	—	500	—	
<b>LHMS-S6-D</b>	M, I, S	See Drawing	.145 (3.7)		See Drawing	MS3340-1	#6 Screw (M3) or 9/64" (3.5) Rivet or #8 (M4) Self-Tapping Screw	—	—	500	—
<b>LHMS-S10-D</b>	M, I, S		.192 (4.9)			—	#10 Screw (M5) or 3/16" (4.7) Rivet	—	—	500	—

Most commonly used parts appear in **BOLD**.

\*Order the Number of Pieces Required in Multiples of Packaging Quantities.

†Part Numbers listed are for Standard Materials in Standard Package Quantity. For Bulk Package Part Numbers, see [Pages 128 & 129](#).

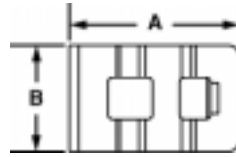
\*\*Cable Tie Cross Section Sizes: M = Miniature, I = Intermediate, S = Standard, LH = Light Heavy and H = Heavy.

# PANDUIT® Cable Tie Mounts

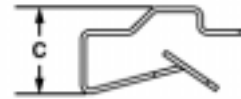
## Metal Clip-On Mount



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.



**MCMS12-P-C**  
Panel Thickness  
inches (mm) .030  
-.125 (.7 - 3.2)



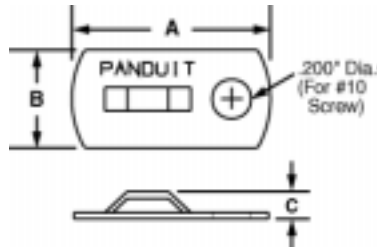
**MCMS25-P-C**  
Panel Thickness  
inches (mm) .125 -  
.270 (3.18 - 6.86)

Part Number†	Used With Cable Ties**	Dimensions inches (mm)			Material	Color	Where Used	Mounting Method	Packaging*			
		A	B	C					Std. Pkg. Qty.	Std. Ctn. Qty.	Bulk Pkg. Qty.	Bulk Ctn. Qty.
<b>MCMS12-P-C</b>	M, I, S	.88 (22)	.56 (14)	.31 (8)	Zinc Plated Steel	—	Indoors or Outdoors	Clip-On	—	—	100	500
<b>MCMS25-P-C</b>	M, I, S	.88 (22)	.56 (14)	.46 (11.5)		—		Clip-On	—	—	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†	Used With Cable Ties**	Dimensions inches (mm)			Material	Where Used	Mounting Method	Max. Static Load lbs. (g)	Packaging*			
		A	B	C					Std. Pkg. Qty.	Std. Ctn. Qty.	Bulk Pkg. Qty.	Bulk Ctn. Qty.
<b>MBMS-S10-C</b>	M, I, S	1.00 (25.4)	.50 (12.7)	.130 (3.3)	Aluminum (Chromate Coated)	Indoors or Outdoors	#10 (M5) Screw	10 (4540)	100	1000	1000	1000

MIL C. 5541 D Class 3 Coating

†Part Numbers listed for MCMS12-P are Bulk Package Quantity.

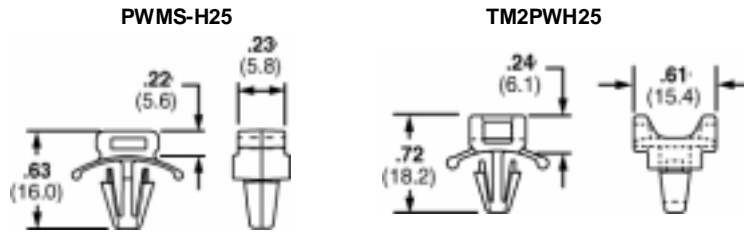
Most commonly used parts appear in **BOLD**.

# PANDUIT® Cable Tie Mounts

## Push Mounts Winged Push Mounts

Push mounts require no adhesive backing or additional mounting hardware. They are inserted into pre-drilled holes.

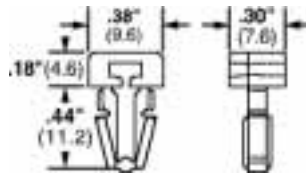
The winged base applies pressure on the panel wall to provide a more secure mount in high vibration applications. Can be used where only one side of the panel is accessible.



Part Number†	Used With Cable Ties**	Dimensions inches (mm)	Panel Dimensions		Material	Color	Where Used	Mounting Method	Packaging*			
			Thickness Max.	Hole Diameter					Std. Pkg. Qty.	Std. Ctn. Qty.	Bulk Pkg. Qty.	Bulk Ctn. Qty.
<b>PWMS-H25-C</b>	M, I, S	See Drawing	.105 (2.7)	.250 (6.4)	Nylon	Natural	Indoors	Inserted into pre-drilled hole	100	1000	1000	5000
<b>PWMS-H25-M0</b>	M, I, S				Weather-Resistant Nylon	Black	Outdoors		—	—	1000	—
<b>TM2PWH25-C</b>	M, I, S		.094 (2.3)	.250 (6.4)	Nylon	Natural	Indoors		100	500	1000	—

## Push Mount

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

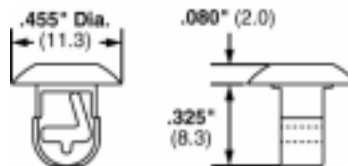


Part Number†	Used With Cable Ties**	Dimensions inches (mm)	Panel Dimensions		Material	Color	Where Used	Mounting Method	Packaging*			
			Thickness Max.	Hole Diameter					Std. Pkg. Qty.	Std. Ctn. Qty.	Bulk Pkg. Qty.	Bulk Ctn. Qty.
<b>PM2H25-C</b>	M, I, S	See Drawing	.125 (3.2)	.250 (6.4)	Nylon	Natural	Indoors	Inserted into pre-drilled hole	100	500	1000	5000
<b>PM2H25-M0</b>	M, I, S				Weather-Resistant Nylon	Black	Outdoors		—	—	1000	5000
<b>PM2H25-M30</b>	M, I, S		.125 (3.2)	.250 (6.4)	Heat Stabilized Nylon	Black	Indoors		—	—	1000	5000

Most commonly used parts appear in **BOLD**.

## Push Button Mount

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



Part Number†	Used With Cable Ties**	Dimensions inches (mm)	Panel Dimensions		Material	Color	Where Used	Mounting Method	Packaging*			
			Thickness Max.	Hole Diameter					Std. Pkg. Qty.	Std. Ctn. Qty.	Bulk Pkg. Qty.	Bulk Ctn. Qty.
<b>PBMS-H25-C</b>	M, I, S	See Drawing	.125 (3.2)	.25 (6.4)	Nylon	Natural	Indoors	Inserted into pre-drilled hole	100	500	1000	5000
<b>PBMS-H25-C14</b>					Nylon	Gray	Indoors		100	500	1000	—
<b>PBMS-H25-M0</b>					Weather-Resistant Nylon	Black	Outdoors		—	—	1000	—
<b>PBMS-H25-M30</b>					Heat Stabilized Nylon	Black	Indoors		—	—	1000	—

Most commonly used parts appear in **BOLD**.

\*Order the Number of Pieces Required in Multiples of Packaging Quantities. Part Number shown for PWMS-H25-C, TM2PWH25-C, PM2H25-C, PBMS-H25-C and PBMS-H25-C14 are for Standard Package Quantity. For Bulk Package Part Numbers, see [Pages 128 & 129](#). †Part Numbers listed for MCMS12-P are Bulk Package Quantity. \*\*Cable Tie Cross Section Sizes: M = Miniature, I = Intermediate, S = Standard, LH = Light Heavy and H = Heavy.



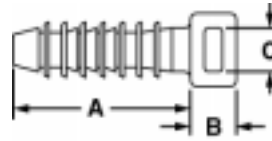
# PANDUIT® Cable Tie Mounts

## Masonry Push Mounts

Used to secure wire, cable or tubing to masonry surfaces. Installed quickly into pre-drilled holes. Design holds bundle securely.



MPMS19, MPMS25, MPMH38 & MPMWH32



1. Drill hole using correct size bit.



2. Hammer mount into hole.



3. Place cable tie through mount.



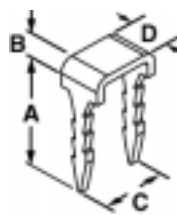
4. Install wires or cable.

Part Number†	Used With Cable Ties**	Dimensions inches (mm)			Hole Dimensions		Material	Color	Where Used	Mounting Method	Packaging*			
		A	B	C	Drill Depth	Hole Diameter					Std. Pkg. Qty.	Std. Ctn. Qty.	Bulk Pkg. Qty.	Bulk Ctn. Qty.
<b>MPMS19-C0</b>	M, I, S	.97 (24.6)	.25 (6.4)	.22 (5.6)	1.25 (31.8)	.188 (5)	Weather-Resistant Nylon	Black	Outdoors or Indoors	Inserted into Pre-Drilled Hole	100	500	1000	—
<b>MPMS25-C0</b>	M, I, S	.97 (24.6)	.25 (6.4)	.22 (5.6)	1.25 (31.8)	.25 (6)					100	500	1000	—
<b>MPMH38-L0</b>	M, I, S, LH, H	1.25 (31.8)	.30 (7.5)	.38 (9.6)	1.50 (38.1)	.375 (10)					50	500	500	—
<b>MPMWH32-L0</b>	M, I, S, LH, H	1.41 (35.8)	.28 (7.1)	.38 (9.6)	1.75 (44.5)	.313 (8)					50	500	500	—

Most commonly used parts appear in **BOLD**.

## Wood Push Mount

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



Part Number†	Used With Cable Ties**	Dimensions inches (mm)				Material	Where Used	Mounting Method	Packaging*			
		A	B	C	D				Std. Pkg. Qty.	Std. Ctn. Qty.	Bulk Pkg. Qty.	Bulk Ctn. Qty.
<b>WPMH-C</b>	M, I, S, LH, H	.75 (19.1)	.31 (7.9)	.50 (12.7)	.19 (4.8)	Plated steel	Outdoors or Indoors	Hammer into Wood	100	500	—	—



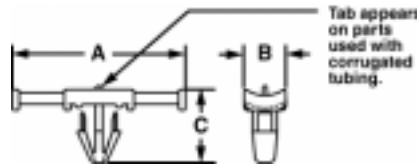
# PANDUIT® Cable Tie Mounts

## Tie Harness Mounts

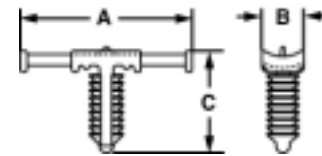


Tie Harness Mounts are designed to be attached to the wire harness during assembly with 2 cable ties. Ties can be installed by hand or, more efficiently, with **PANDUIT PAT** Automatic Cable Tie Tooling. Use with Harness Board Standoff Posts and Tie Harness Mount Fixtures ([See Page 126](#)). Available with or without corrugated tubing location tab.

THMSP—Push Barb Style



THMSC—Tree Barb Style



Part Number†	Used With Cable Ties**	Dimensions inches (mm)			Panel Dimensions		Material	Color	Where Used	Mounting Method	Packaging*						
		A	B	C	Thickness Max.	Hole Diameter					Std. Pkg. Qty.	Std. Ctn. Qty.	Bulk Pkg. Qty.	Bulk Ctn. Qty.			
<b>FOR CORRUGATED TUBING</b> —A specially designed location tab on the mount shelf aligns with grooves in corrugated tubing ensuring proper mount location during assembly.																	
THMSP20-C	M, I, S	1.54 (39.1)	.37 (9.5)	.47 (11.9)	.16 (4.1)	.244 - .283 (6.2 - 7.2)	Nylon	Natural	Indoors	Push Barb	100	1000	1000	5000			
THMSP20-C30							Heat Stabil. Nylon	Black	Indoors/High Temp.		100	1000	1000	5000			
THMSP25-C							.54 (13.7)	.23 (5.8)	Nylon		Natural	Indoors	100	1000	1000	5000	
THMSP25-C30									Heat Stabil. Nylon		Black	Indoors/High temp.	100	1000	1000	5000	
THMSC35-C639				M, I, S	1.54 (39.1)	.37 (9.5)	.46 (11.7)	.25 (6.4)	.244 - .268 (6.2 - 6.8)	Nylon	Natural	Indoors/High Temp.	Tree Barb	100	1000	1000	5000
THMSC35-C630										Black	100			1000	1000	5000	
THMSC60-C639							.72 (18.3)	.50 (12.7)		Heat Stabilized Nylon	Natural	100		1000	1000	5000	
THMSC60-C630										Black	100	1000		1000	5000		
THMSC85-C639							.98 (24.9)	.75 (19.0)		Nylon	Natural	100		1000	1000	5000	
THMSC85-C630										Black	100	1000		1000	5000		

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

THMSP20F-C	M, I, S	1.54 (39.1)	.37 (9.5)	.47 (11.9)	.16 (4.1)	.244 - .283 (6.2 - 7.2)	Nylon	Natural	Indoors	Push Barb	100	1000	1000	5000			
THMSP20F-C30							Heat Stabil. Nylon	Black	Indoors/High Temp.		100	1000	1000	5000			
THMSP25F-C							.54 (13.7)	.23 (5.8)	Nylon		Natural	Indoors	100	1000	1000	5000	
THMSP25F-C30									Heat Stabil. Nylon		Black	Indoors/High temp.	100	1000	1000	5000	
THMSC35F-C639				M, I, S	1.54 (39.1)	.37 (9.5)	.46 (11.7)	.25 (6.4)	.244 - .268 (6.2 - 6.8)	Nylon	Natural	Indoors/High Temp.	Tree Barb	100	1000	1000	5000
THMSC35F-C630										Black	100			1000	1000	5000	
THMSC60F-C639							.72 (18.3)	.50 (12.7)		Heat Stabilized Nylon	Natural	100		1000	1000	5000	
THMSC60F-C630										Black	100	1000		1000	5000		
THMSC85F-C639							.98 (24.9)	.75 (19.0)		Nylon	Natural	100		1000	1000	5000	
THMSC85F-C630										Black	100	1000		1000	5000		

-639 suffix denotes natural heat stabilized nylon  
 -630 suffix denotes black heat stabilized nylon.

\*Order the Number of Pieces Required in Multiples of Packaging Quantities.

†Part Numbers listed are for Standard Materials in Standard Package Quantity. For Bulk Package Part Numbers, see [Pages 128 & 129](#).

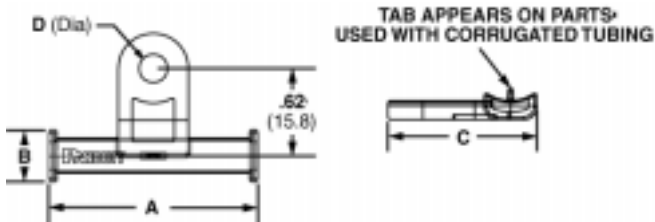
\*\*Cable Tie Cross Section Sizes: M = Miniature, I = Intermediate, S = Standard, LH = Light Heavy and H = Heavy.

# PANDUIT® Cable Tie Mounts

## Tie Harness Anchors



Tie Harness Anchors are designed to be attached to the wire harness during assembly with 2 cable ties. Ties can be installed by hand or more effectively with **PANDUIT** PAT Automatic Cable Tie Tooling. Available with and without corrugated tubing location tab.



Part Number†	Used With Cable Ties**	Dimensions inches (mm)				Material	Color	Where Used	Mounting Method	Packaging*			
		A	B	C	D					Std. Pkg. Qty.	Std. Ctn. Qty.	Bulk Pkg. Qty.	Bulk Ctn. Qty.
<b>FOR CORRUGATED TUBING</b> —A specially designed location tab on the mount shelf aligns with grooves in corrugated tubing ensuring proper mount location.													
THASS8-C	M, I, S	1.49 (37.9)	.37 (9.5)	1.06 (26.9)	.180 (4.6)	Nylon	Natural	Indoors	#8 (M4) Screw	100	1000	1000	5000
THASS8-C30						Heat Stabil. Nylon	Black	Indoors/High Temp.		100	1000	1000	5000
THASS10-C					.205 (5.2)	Nylon	Natural	Indoors	#10 (M5) Screw	100	1000	1000	5000
THASS10-C30						Heat Stabil. Nylon	Black	Indoors/High Temp.		100	1000	1000	5000
THASS25-C					.265 (6.7)	Nylon	Natural	Indoors	1/4" (M6) Screw	100	1000	1000	5000
THASS25-C30						Heat Stabil. Nylon	Black	Indoors/High Temp.		100	1000	1000	5000
<b>FOR DISCRETE WIRING</b> —There is no location tab for applications not requiring use of corrugated tubing.													
THASS8F-C	M, I, S	1.49 (37.9)	.37 (9.5)	1.06 (26.9)	.180 (4.6)	Nylon	Natural	Indoors	#8 (M4) Screw	100	1000	1000	5000
THASS8F-C30						Heat Stabil. Nylon	Black	Indoors/High Temp.		100	1000	1000	5000
THASS10F-C					.205 (5.2)	Nylon	Natural	Indoors	#10 (M5) Screw	100	1000	1000	5000
THASS10F-C30						Heat Stabil. Nylon	Black	Indoors/High Temp.		100	1000	1000	5000
THASS25F-C					.265 (6.7)	Nylon	Natural	Indoors	1/4" (M6) Screw	100	1000	1000	5000
THASS25F-C30						Heat Stabil. Nylon	Black	Indoors/High Temp.		100	1000	1000	5000

\*Order the Number of Pieces Required in Multiples of Packaging Quantities.

†Part Numbers listed are for Standard Materials in Standard Package Quantity. For Bulk Package Part Numbers, see [Pages 128 & 129](#).

\*\*Cable Tie Cross Section Sizes: M = Miniature, I = Intermediate, S = Standard, LH = Light Heavy and H = Heavy.

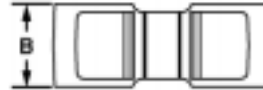
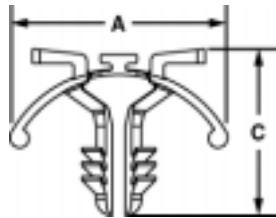
# PANDUIT® Cable Tie Mounts

## THM1SC Tie Harness Mount for Single Tie

Unique Mount is Attached to Harness  
Automatically as Tie is Installed



- Secured with only 1 cable tie
- Used with the THMF base which opens and holds the mount ([See Page 126](#))
- Cable ties can be installed by hand with **PANDUIT** Automatic Cable Tie Tooling Installation Systems (see pages [Pages 46 to 49](#)) or pneumatic tool ([See Page 52](#)) or hand operated cable tie tools ([Pages 53 to 55](#)).
- Anti-rattle winged design
- Barb design is easy to insert into pre-drilled hole
- Strong. 50 lb. vertical extraction force from .250" hole
- Can be used with auto-fed or loose piece cable ties



Part Number†	Used With Cable Ties**	Dimensions inches (mm)			Panel Dimensions		Material	Color	Where Used	Mounting Method	Packaging*			
		A	B	C	Thickness Max.	Hole Diameter					Std. Pkg. Qty.	Std. Ctn. Qty.	Bulk Pkg. Qty.	Bulk Ctn. Qty.
THM1SC-C	M, I, S	.98	.38	.75	.187	.250	Nylon	Natural	Indoors	Push	100	1000	1000	5000
THM1SC-C30		(24.8)	(9.5)	(19.1)	(4.7)	(6.5)	Heat Stabil. Nylon	Black	Indoors/High Temp.		100	1000	1000	5000

-30 after the pkg. code is for black, heat stabilized nylon 6.6 material for applications up to 221°F.

## The Tie Harness Mount System:



1. Snap mount into fixture. Mounting ears open for cable tie installation.



2. Apply cable tie with automatic cable tie tool.



Or apply cable tie by hand and tension with pneumatic cable tie tool.



Or apply cable tie by hand and tension with hand-operated cable tie tool.



3. Pull harness from fixture. Mounting ears close, ready for installation.

\*Order the Number of Pieces Required in Multiples of Packaging Quantities.

†Part Numbers listed are for Standard Materials in Standard Package Quantity. For Bulk Package Part Numbers, see [Pages 128 & 129](#).

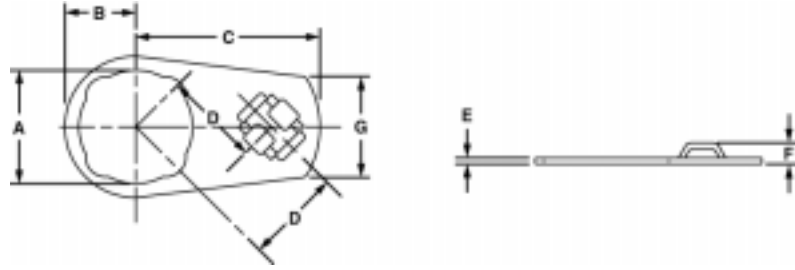
\*\*Cable Tie Cross Section Sizes: M = Miniature, I = Intermediate, S = Standard, LH = Light Heavy and H = Heavy.

# PANDUIT® Cable Tie Mounts

## Control Panel Mount



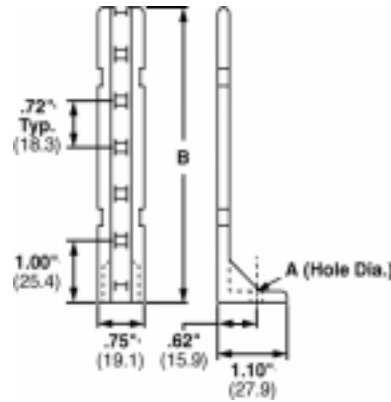
Installed when switch is installed to save labor. Ideal for high strain areas where cable is routed from panel to panel door. Compatible with most control panel switch designs.



Part Number†	Used With Cable Ties**	Dimensions inches (mm)							Material	Mounting Method	Packaging*			
		A	B	C	D	E	F	G			Std. Pkg. Qty.	Std. Ctn. Qty.	Bulk Pkg. Qty.	Bulk Ctn. Qty.
CPM87S-C	M, I, S	.89 (22.6)	.57 (14.5)	1.44 (36.6)	.75 (19.1)	.048 (1.2)	.17 (4.3)	.76 (19.3)	Zinc Plated Steel	Control Panel Switch	—	—	100	1000
CPM122S-C	M, I, S	1.22 (31.0)	.75 (19.1)	2.07 (52.6)	1.12 (28.4)	.048 (1.2)	.17 (4.3)	.82 (20.8)			—	—	100	1000

## Pan-Pole™ Standoff

Supports wire bundles above or away from surface.



NOTE: RAFCB Right Angle Flat Cable Base (shown on page 98) can also be used as a wire bundle standoff

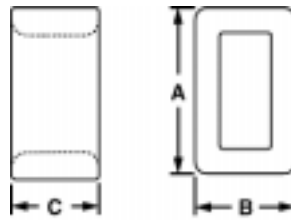
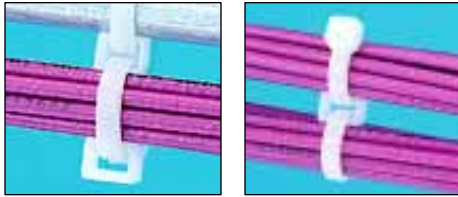
Part Number†	Used With Cable Ties**	A	B	Dimensions inches (mm)	Material	Mounting Method	Packaging*			
							Std. Pkg. Qty.	Std. Ctn. Qty.	Bulk Pkg. Qty.	Bulk Ctn. Qty.
<b>PP1S-S10-X</b>	M, I, S	.200 (5.1)	2.00 (51)	See Drawing	Natural Nylon	#10 (M5) Screw	10	50	100	—
PP1S-S12-X	M, I, S	.228 (5.8)	2.00 (51)			#12 (M5.5) Screw	10	50	100	—
<b>PP2S-S10-X</b>	M, I, S	.200 (5.1)	4.62 (117.3)			#10 (M5) Screw	10	50	100	—
PP2S-S12-X	M, I, S	.228 (5.8)	4.62 (117.3)			#12 (M5.5) Screw	10	50	100	—

Most commonly used parts appear in **BOLD**

# PANDUIT® Cable Tie Mounts

## Connector Rings Closed Connector Rings

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

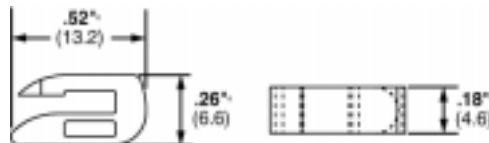


Part Number†	Used With Cable Ties**	Dimensions inches (mm)			Material	Color	Where Used	Mounting Method	Packaging*			
		A	B	C					Std. Pkg. Qty.	Std. Ctn. Qty.	Bulk Pkg. Qty.	Bulk Ctn. Qty.
<b>CR2-M</b>	M, I, S	.33 (8.4)	.24 (6.1)	.20 (5.1)	Nylon	Natural	Indoors	Cable Ties	—	—	1000	10000
<b>CR4H-M</b>	M, I, S, LH	.57 (14.5)	.36 (9.1)	.30 (7.6)			Indoors	Cable Ties	—	—	1000	10000

Most commonly used parts appear in **BOLD**.

## Open Connector Ring

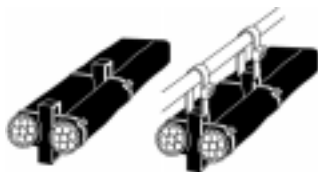
Designed to “add on” wire bundles without changing cable ties.



<b>CROS-M</b>	M, I, S	See Drawing	Nylon	Natural	Indoors	Connects to M, I, S Cable Ties	—	—	1000	—
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## Cable Spacers

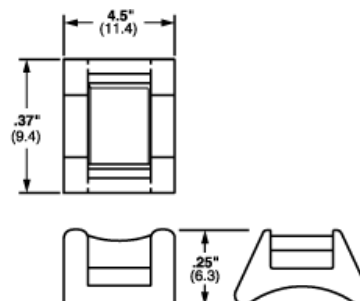
Used to separate and/or hang wire cables, hydraulic hoses.



<b>CSH-D20</b>	M, I, S, LH, H	See Drawing	Nylon	Black	Indoors	Cable Ties	—	—	500	—
<b>CSH-D0</b>	M, I, S, LH, H	See Drawing	Weather Resist. Nylon	Black	Outdoors or Indoors	Cable Ties	—	—	500	—

## Cable Spacer, Cross

Connects two bundles at 90°. Provides .19" (4.8mm) space between bundles. Dual cradle design. Recommended max. bundle diameter (each) is .625" (15.9).



<b>CSCS-M</b>	M, I, S	See Drawing	Nylon	Natural	Indoors	Cable Ties	—	—	1000	—
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\*Order the Number of Pieces Required in Multiples of Packaging Quantities.

†Part Numbers listed are for Standard Materials in Bulk Package Quantity.

\*\*Cable Tie Cross Section Sizes: M = Miniature, I = Intermediate, S = Standard, LH = Light Heavy and H = Heavy.



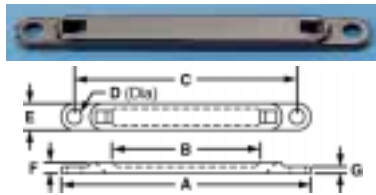
# PANDUIT® Cable Tie Mounts

## Flat Cable Mounting System



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

### Base FCB



**Mounting Application**  
Use one (1) base, one (1) corresponding size plate and one (1) intermediate cable tie.

### Plate FCP



**Bundling Application**  
Use two (2) plates (same size) and one (1) intermediate cable tie.

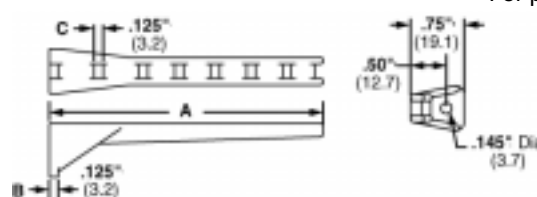


Part Number†	For Flat Cable Widths (Up to)	Dimensions—Inches (mm)							Material & Color	Where Used	Mounting Method	Packaging*			
		A	B	C	D	E	F	G				Std. Pkg. Qty.	Std. Ctn. Qty.	Bulk Pkg. Qty.	Bulk Ctn. Qty.
FCB11-S10-C20	1.00 (25.4)	2.50 (63.5)	1.04 (26.4)	2.08 (52.8)	.200 (5.1)	.375 (9.5)	.150 (3.8)	.095 (2.4)	Black Nylon	Indoors	#10 (M5) Screw	100	—	1000	—
FCB11-A-C20	1.00 (25.4)	2.50 (63.5)	1.04 (26.4)	none ^	none ^	.375 (9.5)	.150 (3.8)	.095 (2.4)			Adhesive*	100	—	1000	—
FCB12-S10-C20	2.00 (50.8)	3.50 (88.9)	2.04 (51.8)	3.10 (78.7)	.200 (5.1)	.375 (9.5)	.150 (3.8)	.095 (2.4)			#10 (M5) Screw	100	—	1000	—
FCB12-A-C20	2.00 (50.8)	3.50 (88.9)	2.04 (51.8)	none ^	none ^	.375 (9.5)	.150 (3.8)	.095 (2.4)			Adhesive* Screw	100	—	1000	—
FCB13-S10-C20	3.00 (76.2)	4.52 (114.8)	3.04 (77.2)	4.12 (104.6)	.200 (5.1)	.375 (9.5)	.150 (3.8)	.095 (2.4)			#10 (M5) Screw	100	—	1000	—
FCB13-A-C20	3.00 (76.2)	4.52 (114.8)	3.04 (77.2)	none ^	none ^	.375 (9.5)	.150 (3.8)	.095 (2.4)			Adhesive*	100	—	1000	—
FCPI1-C20	1.00 (25.4)	1.29 (32.8)	1.04 (26.4)	.375 (9.5)	.200 (5.1)	—	—	—	Black Nylon	Indoors	Cable Ties	100	—	1000	—
FCPI2-C20	2.00 (50.8)	2.31 (58.7)	2.04 (51.8)	.375 (9.5)	.200 (5.1)	—	—	—			Cable Ties	100	—	1000	—
FCPI3-C20	3.00 (76.2)	3.32 (84.3)	3.04 (77.2)	.375 (9.5)	.200 (5.1)	—	—	—			Cable Ties	100	—	1000	—

\*Adhesive supplied by user.

^Adhesive applied bases are supplied without screw holes—dimensions not applicable.

## Right Angle Base RAFCB



For perpendicular applications

RAFCB11-S6-C20	1.00 (25.4)	1.75 (44.4)	See drawing	Black Nylon	Indoors	#6 (M3) Screw	100	500	1000	—
RAFCB12-S6-C20	2.00 (50.8)	2.78 (70.6)					100	500	1000	—
RAFCB13-S6-C20	3.00 (76.2)	3.81 (96.8)					100	500	1000	—

Selection Chart for PANDUIT® Flat Cable Mounting System and PAN-TY® Cable Ties						
For Flat Cable Width (up to)	For Mounting, Use One (1) each of the Following and One (1) Cable Tie	For Bundling, Use Two (2) each of the Following and One (1) Cable Tie	Maximum Flat Cable Stack Height—Inches (mm)			
			PANDUIT® PAN-TY® PLT1.5I Cable Tie	PANDUIT® PAN-TY® PLT2I Cable Tie	PANDUIT® PAN-TY® PLT3I Cable Tie	PANDUIT® PAN-TY® PLT4I Cable Tie
1" (25.4)	FCPI1 and FCB11 (-S10 or -A) or RAFCB11-S6	FCPI1	8 (21)	2.0 (51)	3.7 (94)	5.2 (133)
2" (50.8)	FCPI2 and FCB12 (-S10 or -A) or RAFCB12-S6	FCPI2	—	1.0 (25)	2.7 (69)	4.2 (107)
3" (76.2)	FCPI3 and FCB13 (-S10 or -A) or RAFCB13-S6	FCPI3	—	—	1.7 (44)	3.2 (82)

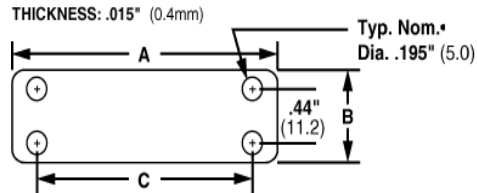


# PANDUIT® Cable Tie Mounts

## Marker Plates



**PANDUIT** 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, hot stamped, or in a marking machine. See page 100 for marker pen information.

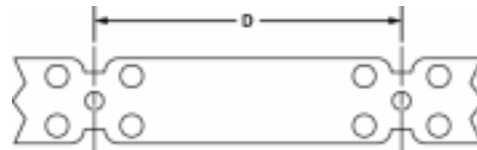


Part Number†	Used With Cable Ties**	Dimensions inches (mm)			Material	Color	Where Used	Mounting Method	Packaging*			
		A	B	C					Std. Pkg. Qty.	Std. Ctn. Qty.	Bulk Pkg. Qty.	Bulk Ctn. Qty.
<b>MP150-C</b>	M, I, S	1.50 (38.1)	.75 (19.1)	1.03 (26.2)	Nylon	White	Indoors	Cable Ties	100	500	1000	5000
<b>MP175-C</b>		1.75 (44.5)	.75 (19.1)	1.28 (32.5)					100	500	1000	5000
<b>MP200-C</b>		2.00 (50.8)	.75 (19.1)	1.53 (38.4)					100	500	1000	5000
<b>MP250-C</b>		2.50 (63.5)	.75 (19.1)	2.03 (51.6)					100	500	1000	5000
<b>MP350-C</b>		3.50 (88.9)	.75 (19.1)	3.03 (77.0)					100	500	1000	—
<b>MP250W175-C</b>		2.50 (63.5)	1.75 (44.5)	2.03 (51.6)					100	500	1000	—
<b>MP150-C0</b>	M, I, S	1.50 (38.1)	.75 (19.1)	1.03 (26.2)	Weather Resistant Nylon	Black	Outdoors	Weather Resistant Cable Ties	100	500	1000	—
<b>MP175-C0</b>		1.75 (44.5)	.75 (19.1)	1.28 (32.5)					100	500	1000	—
<b>MP200-C0</b>		2.00 (50.8)	.75 (19.1)	1.53 (38.4)					100	500	1000	—
<b>MP250-C0</b>		2.50 (63.5)	.75 (19.1)	2.03 (51.6)					100	500	1000	—
<b>MP350-C0</b>		3.50 (88.9)	.75 (19.1)	3.03 (77.0)					100	500	1000	—

Most commonly used parts appear in **BOLD**.

## Marker Plates on Rolls

For use in automatic marking equipment. Packaged on spools



Part Number†	Used With Cable Ties**	Dimensions inches (mm)				Material	Color	Where Used	Mounting Method	Packaging*			
		A	B	C	D					Std. Pkg. Qty.	Std. Ctn. Qty.	Bulk Pkg. Qty.	Bulk Ctn. Qty.
<b>MP150-R</b>	M, I, S	1.50 (38.1)	.75 (19.1)	1.03 (26.2)	1.69 (42.9)	Nylon	White	Indoors	Cable Ties	—	—	1000	—
<b>MP175-R</b>		1.75 (44.5)	.75 (19.1)	1.28 (32.5)	1.94 (49.3)					—	—	1000	—
<b>MP200-R</b>		2.00 (50.8)	.75 (19.1)	1.53 (38.9)	2.19 (55.6)					—	—	1000	—
<b>MP250-R</b>		2.50 (63.5)	.75 (19.1)	2.03 (51.6)	2.69 (68.3)					—	—	1000	—

## Marker Plate Kits

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

\*Order the Number of Pieces Required in Multiples of Packaging Quantities.

†Part Numbers listed are for Standard Materials in Standard Package Quantity except Marker Plates on Rolls, which are Bulk Package Quantity.

\*\*Cable Tie Cross Section Sizes: M = Miniature, I = Intermediate, S = Standard, LH = Light Heavy and H = Heavy.

## Marking Pens

Provide fast drying, permanent, legible identification on nylon—where ordinary marking pens will not work.

PX-0  
PX-2



PX-10



PFX-0  
PFX-2



Part Number	Tip	Color	Description	Std. Pkg. Qty.	Std. Ctn. Qty.
PX-0	Regular	Black	Color of ink is color of pen. Reversible tip to extend life of pen.	12	48
PX-2	Regular	Red		12	48
PX-10	Regular	White	For marking black or other dark-colored parts. Extra tip at end of pen also denotes color.	12	48
PFX-0	Fine	Black	For detailed marking on nylon surfaces. Color of cap and end is color of ink.	12	48
PFX-2	Fine	Red		12	48

## TELCO Installation 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 (B or C 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 inches (mm)	Material	Color	Where Used	Mounting Method	Packaging*			
							Std. Pkg. Qty.	Std. Ctn. Qty.	Bulk Pkg. Qty.	Bulk Ctn. Qty.
SACS50-T100	See Footnote	2.08 x 1.16 (52.8 x 21.5)	Weather-Resistant Polypropylene	Black	Outdoors	Cable Ties	—	—	200	2000

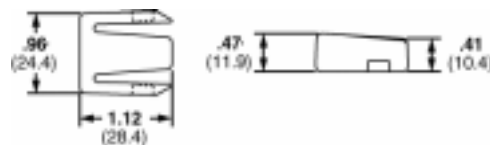
Stackable Spacers may be installed using weather-resistant Lashing Ties ([See Page 14](#)), weather-resistant Heavy and Light Heavy Cable Ties ([See Page 14](#)), and Stainless Steel Ties (see page [See Page 73](#)). Most commonly used parts appear in **BOLD**

## Cable Hook Wedge

Easily installed. Part snaps into TELCO Cable Rack. Releasable (with pliers) and reusable.



SNAPS INTO RACK OPENING

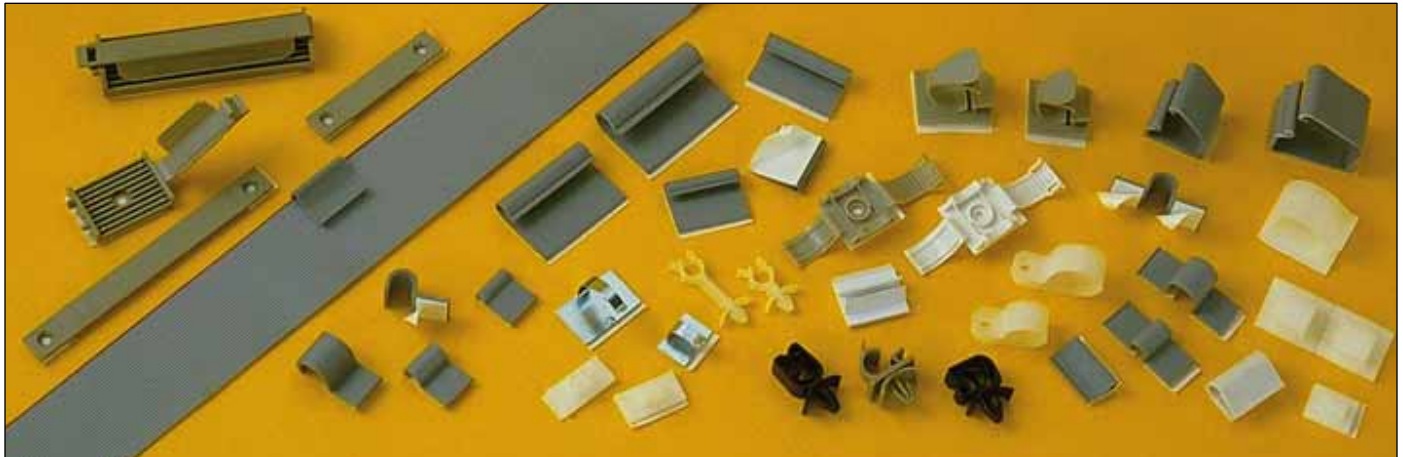


Rack Thickness:  
3/16"

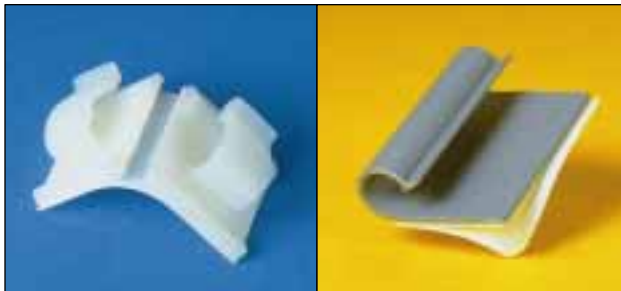
Part Number†	Dimensions Inches (mm)	Material	Color	Packaging*			
				Std. Pkg. Qty.	Std. Ctn. Qty.	Bulk Pkg. Qty.	Bulk Ctn. Qty.
CHW-C20	See Drawing	Nylon	Black	—	—	100	500

# PANDUIT® Wire Mounting Devices

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



## Adhesive Backed Mounting Devices



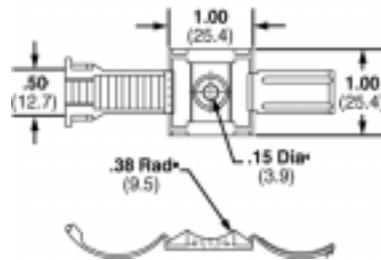
Faster Liner Removal Speeds Installation and Lowers Install Cost

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

## CLINCHER™ Adjustable Releasable Clamp



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



The **CLINCHER** clamp is fast and easy to use . . .



Lift tab to release

Part Number†	Max. Bundle Dia. In. (mm)	Dimensions inches (mm)				Material	Color	Where Used	Mounting Method	Max. Static Load Lbs. (g)	Packaging*			
		A	B	C	D						Std. Pkg. Qty.	Std. Ctn. Qty.	Bulk Pkg. Qty.	Bulk Ctn. Qty.
ARC.68-A-Q ARC.68-A-Q14	.69 (17.5)	See drawing				Polypropylene	White	Indoors	Adhesive Backed	.50 (227)	25	250	100	1000
TELCO Gray							25				250	100	1000	
White							#6 (M3) Panhead Screw		—		25	250	100	1000
TELCO Gray									—		25	250	100	1000

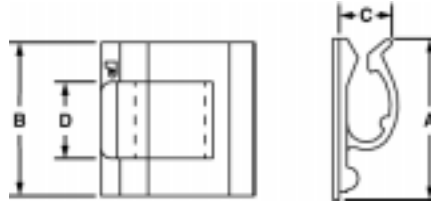
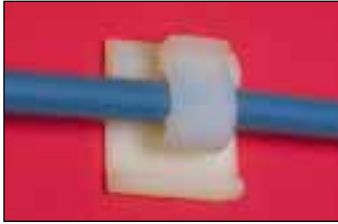
\*Order the Number of Pieces Required in Multiples of Packaging Quantities.

†Part Numbers listed are for Standard Materials in Standard Package Quantity. For Bulk Package Part Numbers, see [Pages 127](#).

# PANDUIT® Adhesive Backed Mounting Devices

## Adhesive Backed Cord Clips ACC Type

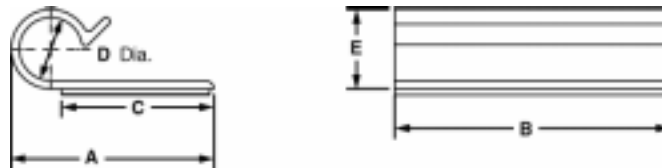
Three sizes of clips to hold cords, tubing, cable, or wire bundles up to .62" (15.7m) diameter. Bundles are easily snapped into or out of the clips.



Part Number†	Max. Bundle Dia. In. (mm)	Dimensions inches (mm)				Material	Color	Where Used	Mounting Method	Max. Static Load Lbs. (g)	Packaging*			
		A	B	C	D						Std. Pkg. Qty.	Std. Ctn. Qty.	Bulk Pkg. Qty.	Bulk Ctn. Qty.
ACC19-A-C	.19 (4.8)	.62 (15.9)	.75 (19.0)	.29 (7.4)	.39 (9.9)	Nylon	Natural	Indoors	Adhesive Backed	.20 (91)	100	500	1000	5000
ACC19-AT-C						Nylon	Natural	Indoors/High Temp.			100	500	1000	5000
ACC19-A-C20						Nylon	Black	Indoors			100	500	1000	5000
ACC19-AT-C0						Weather-resistant Nylon	Black	Outdoors/High Temp.			100	500	1000	5000
ACC38-A-C	.38 (9.6)	1.00 (25.4)	1.00 (25.4)	.40 (10.2)	.50 (12.7)	Nylon	Natural	Indoors	Adhesive Backed	.50 (227)	100	500	1000	5000
ACC38-AT-C						Nylon	Natural	Indoors/High Temp.			100	500	1000	—
ACC38-A-C20						Nylon	Black	Indoors			100	500	1000	—
ACC38-AT-C0						Weather-Resistant Nylon	Black	Outdoors/High Temp.			100	500	1000	—
ACC62-A-C	.62 (15.7)	1.25 (31.7)	1.12 (28.6)	.63 (16.1)	.75 (19.0)	Nylon	Natural	Indoors	Adhesive Backed	.70 (318)	100	500	500	5000
ACC62-AT-C						Nylon	Natural	Indoors/High Temp.			100	500	500	5000
ACC62-A-C20						Nylon	Black	Indoors			100	500	500	5000
ACC62-AT-C0						Weather-Resistant Nylon	Black	Outdoors/High Temp.			100	500	500	5000

## AJC Type

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

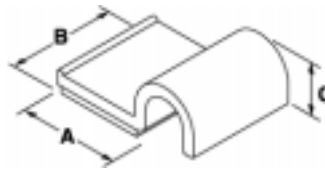


Part Number†	Max. Bundle Dia. In. (mm)	Dimensions inches (mm)					Material & Color	Where Used	Mounting Method	Max. Static Load Lbs. (g)	Packaging*			
		A	B	C	D	E					Std. Pkg. Qty.	Std. Ctn. Qty.	Bulk Pkg. Qty.	Bulk Ctn. Qty.
AJC12-A-C	.12 (3.0)	.86 (21.8)	1.00 (25.4)	.77 (19.6)	.13 (3.3)	.22 (5.6)	PVC Light Gray	Indoors	Adhesive Backed	.40 (182)	—	—	100	1000
AJC19-A-C	.19 (4.8)	.89 (22.6)	1.25 (31.8)	.77 (19.6)	.19 (4.8)	.30 (7.6)				.50 (227)	—	—	100	1000
AJC25-A-C	.25 (6.4)	.92 (23.4)	1.50 (38.1)	.77 (19.6)	.23 (5.8)	.34 (8.6)				.60 (272)	—	—	100	1000
AJC31-A-C	.31 (7.9)	1.23 (31.2)	1.75 (44.5)	1.03 (26.2)	.31 (7.9)	.44 (11.2)				.90 (408)	—	—	100	1000
AJC38-A-C	.38 (9.6)	1.28 (32.5)	2.00 (50.8)	1.03 (26.2)	.40 (10.2)	.53 (13.5)				1.0 (454)	—	—	100	1000

# PANDUIT® Adhesive Backed Mounting Devices

## A1C Type

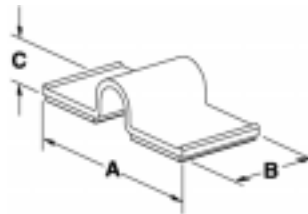
Holds cords, cables and tubing. Single adhesive pad for confined areas.



Part Number†	Max. Bundle Dia. In. (mm)	Dimensions inches (mm)			Material	Color	Where Used	Mounting Method	Max. Static Load Lbs. (g)	Packaging*			
		A	B	C						Std. Pkg. Qty.	Std. Ctn. Qty.	Bulk Pkg. Qty.	Bulk Ctn. Qty.
A1C12-A-C8	.12 (3.0)	.77 (19.6)	.63 (16)	.23 (5.8)	PVC	Light Gray	Indoors	Adhesive Backed	.14 (64)	—	—	100	1000
A1C25-A-C8	.25 (6.4)	.91 (23.1)	.63 (16)	.38 (9.7)						—	—	100	1000
A1C38-A-C8	.38 (9.5)	1.04 (26.4)	.63 (16)	.51 (13)						—	—	100	1000
A1C50-A-C8	.50 (12.7)	1.17 (29.7)	.63 (16)	.64 (16.3)						—	—	100	1000

## A2C Type

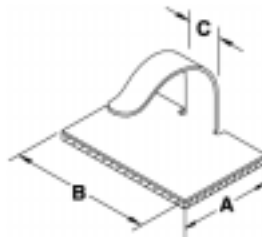
Holds cords, cables and tubing. Two adhesive pads for added strength.



A2C12-A-C8	.12 (3.0)	1.30 (33)	.63 (16)	.23 (5.8)	PVC	Light Gray	Indoors	Adhesive Backed	.14 (64)	—	—	100	1000
A2C25-A-C8	.25 (6.4)	1.43 (36.3)	.63 (16)	.36 (9.1)						—	—	100	1000
A2C38-A-C8	.38 (9.5)	1.56 (39.6)	.63 (16)	.49 (12.4)						—	—	100	1000
A2C50-A-C8	.50 (12.7)	1.68 (42.7)	.63 (16)	.61 (15.5)						—	—	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.



MACC25-A-C	.25 (6.4)	.53 (13.5)	.79 (20)	.28 (7.1)	Zinc Plated Steel	—	Indoors	Adhesive Backed	.21 (95)	100	1000	—	—
MACC62-A-C	.62 (15.7)	.75 (19.1)	1.18 (30)	.28 (7.1)					.44 (200)	100	1000	—	—

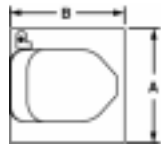
\*Order the Number of Pieces Required in Multiples of Packaging Quantities.  
 †Part Numbers listed for MACC mounts are for Standard Materials in Standard Package Quantity.  
 ‡Part Numbers for A1C/A2C mounts are for Bulk Package Quantity.



# PANDUIT® Adhesive Backed Mounting Devices

## 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.

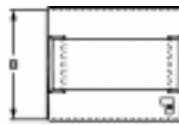
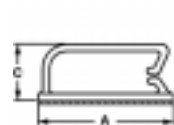


PUSHMOUNT VERSION

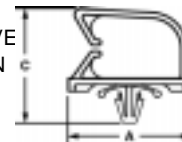
Part Number†	Max. Bundle Dia. In. (mm)	Dimensions inches (mm)			Material	Color	Where Used	Mounting Method	Max. Static Load Lbs. (g)	Packaging*						
		A	B	C						Std. Pkg. Qty.	Std. Ctn. Qty.	Bulk Pkg. Qty.	Bulk Ctn. Qty.			
LWC19-A-C LWC19-A-C14 LWC19-A-C20	.19 (4.8)	.61 (15.1)	.85 (21.6)	.39 (9.9)	Nylon	Natural TELCO Gray Black	Indoors	Adhesive Backed	.25 (113)	100 100 100	1000 1000 1000	500 500 500	5000 5000 5000			
LWC25-A-C LWC25-A-C14 LWC25-A-C20	.25 (6.4)	1.0 (25.4)	.88 (22.2)	.45 (11.4)		Natural TELCO Gray Black			.45 (204)	100 100 100	1000 1000 1000	500 500 500	5000 5000 5000			
LWC38-A-C LWC38-A-C14 LWC38-A-C20	.37 (9.5)	1.0 (25.4)	1.0 (25.4)	.56 (14.2)		Natural TELCO Gray Black			.50 (227)	100 100 100	1000 1000 1000	500 500 500	5000 5000 5000			
LWC50-A-L LWC50-A-L14 LWC50-A-L20	.50 (12.7)	1.0 (25.4)	1.26 (32.0)	.67 (17.6)		Natural TELCO Gray Black			.60 (272)	50 50 50	500 500 500	200 200 200	2000 2000 2000			
LWC75-A-L LWC75-A-L14 LWC75-A-L20	.75 (19.1)	1.24 (31.5)	1.48 (37.6)	.90 (22.9)		Natural TELCO Gray Black			.93 (417)	50 50 50	500 500 500	500 500 500	5000 5000 5000			
LWC100-A-L LWC100-A-L14 LWC100-A-L20	1.0 (25.4)	1.97 (50.0)	2.21 (56.1)	1.26 (32.0)		Natural TELCO Gray Black			2.25 (1020)	50 50 50	500 500 500	500 500 500	5000 5000 5000			
LWC19-H25-C LWC19-H25-C14 LWC19-H25-C20	.19 (4.8)	.51 (12.8)	.85 (21.6)	.41 (10.4)		Nylon			Natural TELCO Gray Black	Indoors	Pushed through .250" (6.4) dia. hole in panels up to .105" (2.6) thick	—	100 100 100	1000 1000 1000	500 500 500	5000 5000 5000
LWC25-H25-C LWC25-H25-C14 LWC25-H25-C20	.25 (6.4)	.58 (14.7)	.86 (21.8)	.47 (11.9)					Natural TELCO Gray Black			—	100 100 100	1000 1000 1000	500 500 500	5000 5000 5000
LWC38-H25-C LWC38-H25-C14 LWC38-H25-C20	.38 (9.5)	.58 (14.7)	.94 (23.9)	.57 (14.5)					Natural TELCO Gray Black			—	100 100 100	1000 1000 1000	500 500 500	5000 5000 5000
LWC50-H25-L LWC50-H25-L14 LWC50-H25-L20	.50 (12.7)	.76 (19.3)	1.25 (31.8)	.78 (19.8)					Natural TELCO Gray Black			—	50 50 50	500 500 500	200 200 200	2000 2000 2000
LWC75-H25-L LWC75-H25-L14 LWC75-H25-L20	.75 (19.1)	.87 (22.1)	1.45 (36.8)	.97 (24.7)	Natural TELCO Gray Black		—	50 50 50	500 500 500			500 500 500	5000 5000 5000			
LWC100-H25-L LWC100-H25-L14 LWC100-H25-L20	1.0 (25.4)	1.0 (25.4)	1.9 (48.0)	1.30 (33.0)	Natural TELCO Gray Black		—	50 50 50	500 500 500			500 500 500	5000 5000 5000			

## 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.



ADHESIVE VERSION



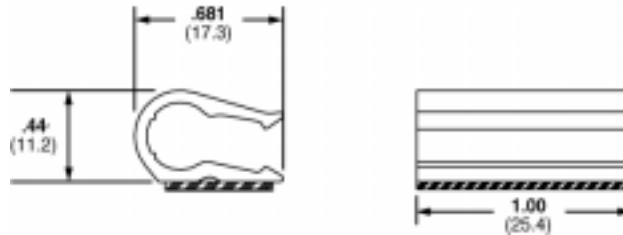
BEC38-A-L	.38 (9.5)	1.46 (37.1)	1.24 (31.5)	.52 (13.23)	Nylon	Natural	Indoors	Adhesive Backed	.91 (411)	50	500	200	1000		
BEC38-A-L20					Nylon	Black	Indoors			50	500	200	1000		
BEC38-AT-L0					Weather-Resist. Nylon	Black	Outdoors			50	500	200	1000		
BEC62-A-L	.62 (15.7)	1.46 (37.1)	1.24 (31.5)	.79 (20.1)	Nylon	Natural	Indoors		Adhesive Backed	.91 (411)	50	500	200	1000	
BEC62-A-L20					Nylon	Black	Indoors				50	500	200	1000	
BEC62-AT-L0					Weather-Resist. Nylon	Black	Outdoors				50	500	200	1000	
BEC75-A-L	.75 (19)	1.46 (37.1)	1.49 (37.8)	.89 (22.6)	Nylon	Natural	Indoors			Adhesive Backed	1.09 (493)	50	500	200	1000
BEC75-A-L20					Nylon	Black	Indoors					50	500	200	1000
BEC75-AT-L0					Weather-Resist. Nylon	Black	Outdoors					50	500	200	1000
BECP38H25-L	.38 (10)	1.46 (37.1)	.73 (18.5)	1.0 (25.4)	Nylon	Natural	Indoors				Pushed through .250" (6.4) dia. hole in panel up to .105" (2.7) thick	—	50	500	200
BECP38H25-L20						Black		—				50	500	200	1000
BECP75H25-L						Natural		—				50	500	200	1000
BECP75H25-L20						Black		—				50	500	200	1000



# PANDUIT® Adhesive Backed Mounting Devices

## ADCC Type

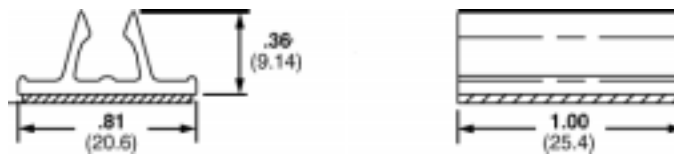
Holds two cables in high temperature applications both indoors and outdoors.



Part Number†	Max. Bundle Dia. In. (mm)	Dimensions inches (mm)			Material	Color	Where Used	Mounting Method	Max. Static Load Lbs. (g)	Packaging*			
		A	B	C						Std. Pkg. Qty.	Std. Ctn. Qty.	Bulk Pkg. Qty.	Bulk Ctn. Qty.
ADCC31-AT-C10	2 bundles .24 - .33 (6 - 9)	See Drawing			NORYL‡	White	Indoors/ Outdoors	Adhesive Backed	.25 (113)	100	500	500	10000

## AMC Type

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



AMC25-AT-C10	.22 - .28 (6 - 7)	See Drawing	PVC	White	Indoors/ Outdoors	Adhesive	.25 (113)	—	—	100	1000
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## VCC Type

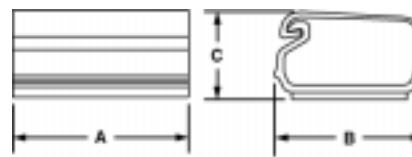
Funnel entry design of this vertical cord clip allows for easy insertion of wires, cables and cords. Top loading for fast production operations.



VCC25-A-C	.25 (6.4)	.50 (12.7)	1.00 (25.4)	Nylon	Natural	Indoors	Adhesive Backed	.25 (113)	100	500	1000	5000
VCC25-A-C0				Weather Resistant Nylon	Black	Indoors			100	500	1000	5000
VCC50-A-C	.50 (12.7)	1.00 (25.4)	1.56 (39.7)	Nylon	Natural	Indoors		.78 (339)	100	500	200	1000

## Latching Clip

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.



LC3-A-C8	.20 sq. in. 129 mm <sup>2</sup>	.75 (19)	.75 (19)	.46 (11.7)	PVC	Lt. Gray	Indoors	Adhesive Backed	.28 (127)	—	—	100	1000
LC5-A-C8	.36 sq. in. 232 mm <sup>2</sup>	1.00 (25.4)	1.01 (25.7)	.53 (13.5)					.50 (227)	—	—	100	1000
LC10-A-L8	.93 sq. in. 600 mm <sup>2</sup>	1.00 (25.4)	1.51 (37.9)	.84 (21.3)					.60 (272)	—	—	50	500

\*Order the Number of Pieces Required in Multiples of Packaging Quantities.

†Part Numbers listed for ADCC and VCC mounts are Standard Materials in Standard Package Quantity. For Bulk Package Part Numbers, see [Page 127](#).

‡Part Numbers for AMC and LC mounts are for Bulk Package Quantity.

‡NORYL Thermoplastic Resin is a Registered Trademark of General Electric Co.

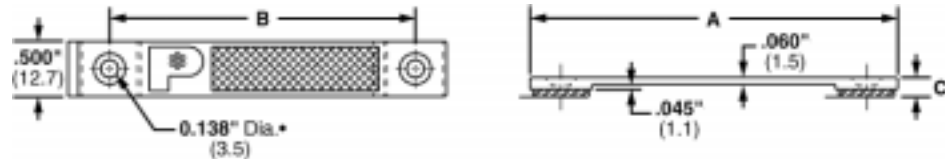
# PANDUIT® Adhesive Backed Mounting Devices

## 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". It features a matte, textured surface for either hand written identification or application of computer labels.



Part Number†	Cable Width In. (mm)	Dimensions inches (mm)				Material	Color	Where Used	Mounting Method	Max. Static Load Lbs. (g)	Packaging*			
		A	B	C	D						Std. Pkg. Qty.	Std. Ctn. Qty.	Bulk Pkg. Qty.	Bulk Ctn. Qty.
LPFCM14-A-C14	1.44 (37)	2.56 (65)	2.0 (50)	.165 (4.2)	2.0 (50)	Nylon	TELCO Gray	Indoors	Adhesive Backed or Screw Applied #6 (M3)	.25 (113)	100	500	500	—
LPFCM22-A-C14	2.19 (56)	3.31 (84)	2.75 (69.9)	.165 (4.2)	2.75 (69.9)						100	500	500	—
LPFCM34-A-C14	3.44 (87)	4.56 (115.8)	4.0 (101.6)	.165 (4.2)	4.0 (101.6)						100	500	500	—

### FCM Type



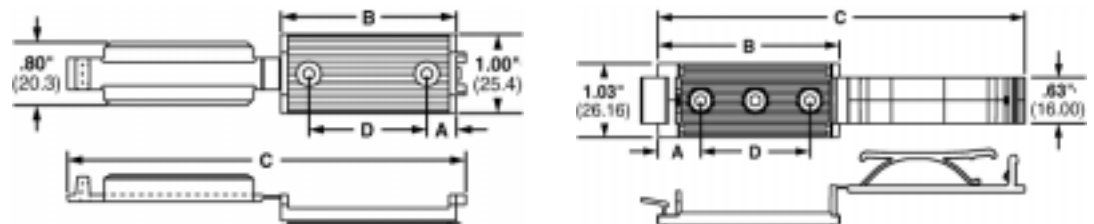
Four sizes, each with a stack height of .17" (4.3mm), to accommodate different flat cable widths. All sizes are available with adhesive backing or can be screw applied.

### FCH Type



The FCH part is designed for flat cable up to a stack height of .25" (6.3mm), discrete wire and Data Comm cables. It is available with adhesive backing or can be screw applied.

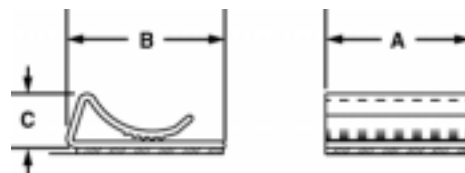
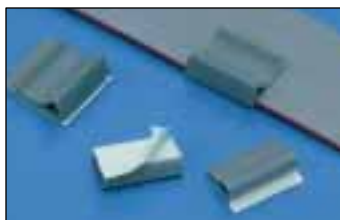
The drawing applies to all mounts except FCM1 and FCM1.2 which have a **single mounting hole** with the "A" shown in the chart being C<sub>L</sub>. (And no "D" dimension)



FCM1-A-C14	1.0 (25.4)	.61 (15.5)	1.21 (30.7)	2.90 (73.7)	—	Nylon	TELCO Gray	Indoors	Adh. backed	.50 (227)	100	500	200	1000
FCM1-S6-C14									#6 (M3) screw	100	500	200	1000	
FCM1.2-A-C14	1.2 (30.5)	.69 (17.5)	1.37 (34.8)	3.16 (80.3)	—				Adh. backed	.62 (281)	100	500	200	1000
FCM1.2-S6-C14									#6 (M3) screw	100	500	200	1000	
FCM2-A-C14	2.0 (50.8)	.37 (9.4)	2.22 (56.3)	5.06 (128.5)	1.50 (38.1)				Adh. backed	1.00 (454)	100	500	200	1000
FCM2-S6-C14									#6 (M3) screw	100	500	200	1000	
FCM3.25-A-L14	3.25 (82.6)	.94 (23.9)	3.38 (85.9)	7.30 (185.4)	1.50 (38.1)	Adh. backed	1.50 (50)	50	500	200	1000			
FCM3.25-S6-L14						#6 (M3) screw	1.81 (50)	50	500	200	1000			
FCH2-A-C14	2.00 (50.8)	.59 (14.9)	2.5 (63.5)	5.04 (128.1)	1.50 (38.1)	Adh. backed	1.00 (454)	100	500	200	1000			
FCH2-S6-C14						#6 (m3) screw	100	500	200	1000				

### FCC Type

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



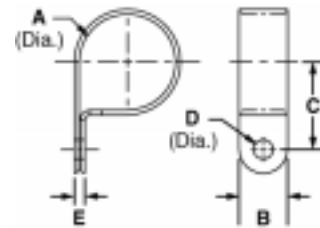
FCC5-A-C8	Any width flat cable	1.00 (25.4)	.56 (14.1)	.28 (7.1)	—	PVC	Gray	Indoors	Adhesive Backed	.25 (113)	100	1000	500	5000
FCC-A-C8		1.00 (25.4)	1.09 (27.7)	.38 (9.7)	—					.50 (227)	100	1000	500	—

# PANDUIT® Wire Mounting Devices

## Fixed Diameter Cable Clamps



Durable nylon cable clamps are available in two widths: 3/8" wide for standard use and 1/2" wide for heavy duty use. The bundle diameter (A) of the clamps is marked in each clamp.



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

Part Number†	Type of Application	Dimensions inches (mm)					Material	Color	Where Used	Mounting Method	Packaging*				
		A	B	C	D	E					Std. Pkg. Qty.	Std. Ctn. Qty.	Bulk Pkg. Qty.	Bulk Ctn. Qty.	
CCS12-S8-C	Standard	.125 (3.1)	.375 (9.5)	.330 (8.4)	.167 (4.2)					#8 (M4) screw #10 (M5) screw on CCS25-S10	100	500	1000	—	
CCS19-S8-C		.187 (4.8)	.375 (9.5)	.430 (10.9)	.167 (4.2)						100	500	1000	—	
CCS25-S8-C		.250 (6.4)	.375 (9.5)	.410 (10.4)	.167 (4.2)						100	500	1000	5000	
CCS25-S10-C		.250 (6.4)	.375 (9.5)	.410 (10.4)	.203 (5.2)						100	500	1000	—	
CCS31-S8-C		.312 (7.9)	.375 (9.5)	.490 (12.4)	.167 (4.2)						100	500	1000	5000	
CCS38-S8-C		.375 (9.5)	.375 (9.5)	.570 (14.5)	.167 (4.2)						100	500	1000	—	
CCS44-S8-C		.437 (11.1)	.375 (9.5)	.590 (15.0)	.167 (4.2)						100	500	1000	—	
CCS50-S8-C		.500 (12.7)	.375 (9.5)	.600 (15.2)	.167 (4.2)						100	500	1000	—	
CCH12-S10-C	Heavy Duty	.125 (3.1)	.500 (12.7)	.360 (9.1)			Nylon	White	Indoors	#10 (M5) Screw	100	500	1000	—	
CCH19-S10-C		.187 (4.8)	.500 (12.7)	.425 (10.8)							.105 (2.7)	100	500	1000	—
CCH25-S10-C		.250 (6.4)	.500 (12.7)	.460 (11.7)							100	500	1000	5000	
CCH31-S10-C		.312 (7.9)	.500 (12.7)	.500 (12.7)							100	500	1000	—	
CCH38-S10-C		.375 (9.5)	.500 (12.7)	.530 (13.5)							100	500	1000	5000	
CCH44-S10-C		.437 (11.1)	.500 (12.7)	.560 (14.2)							100	500	1000	—	
CCH50-S10-C		.500 (12.7)	.500 (12.7)	.595 (15.1)							100	500	1000	5000	
CCH56-S10-C		.563 (14.3)	.500 (12.7)	.625 (15.9)							100	500	1000	—	
CCH62-S10-C		.625 (15.9)	.500 (12.7)	.660 (16.8)							100	500	1000	—	
CCH69-S10-C		.687 (17.5)	.500 (12.7)	.755 (19.2)							.203 (5.2)	100	500	500	—
CCH75-S10-C		.750 (19.1)	.500 (12.7)	.785 (19.9)							100	500	500	—	
CCH81-S10-C		.812 (20.7)	.500 (12.7)	.815 (20.7)							100	500	500	—	
CCH87-S10-C		.875 (22.2)	.500 (12.7)	.845 (21.5)							100	500	500	—	
CCH100-S10-C		1.00 (25.4)	.500 (12.7)	.910 (23.1)							.125 (3.1)	100	500	500	—
CCH112-S10-C		1.125 (28.6)	.500 (12.7)	.970 (24.6)								—	—	100	—
CCH119-S10-C		1.187 (30.2)	.500 (12.7)	1.000 (25.4)								—	—	100	—
CCH125-S10-C		1.250 (31.8)	.500 (12.7)	1.060 (26.9)								—	—	100	—
CCH138-S10-C		1.375 (34.9)	.500 (12.7)	1.125 (28.6)								—	—	100	—
CCH150-S10-C	1.50 (38.1)	.500 (12.7)	1.190 (30.2)	—	—	100	—								

\*Order the Number of Pieces Required in Multiples of Packaging Quantities.

†Part Numbers listed are for Standard Materials in Standard Package Quantity (except CCH112 through CCH150). For Bulk Package Part Numbers, see [Page 127](#).

# PANDUIT® Wire Mounting Devices

## Fixed Diameter Cable Clamp Kit

KP-507 contains an assortment of fixed diameter clamps in a sturdy plastic kit box.

KP-507 Kit



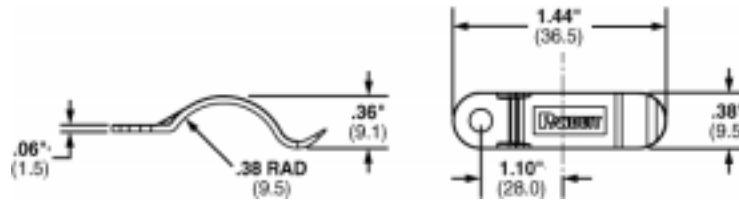
Contains: (1) Plastic Kit Box and the following clamps:

(75) CCS12-S8	(25) CCS50-S8	(25) CCH44-S10	(10) CCH81-S10
(75) CCS10-S8	(70) CCH12-S10	(25) CCH50-S10	(10) CCH87-S10
(50) CCS25-S8	(50) CCH19-S10	(25) CCH56-S10	(5) CCH100-S10
(50) CCS31-S8	(45) CCH25-S10	(15) CCH62-S10	(5) CCH112-S10
(35) CCS38-S8	(35) CCH31-S10	(10) CCH69-S10	(5) CCH119-S10
(25) CCS44-S8	(25) CCH38-S10	(10) CCH75-S10	(5) CCH125-S10

## Tension Wire Retainer



Wires are "slid" into the clip and held in place by tension. The clip may be used to mount flat items such as posters, mirrors, signs, etc.

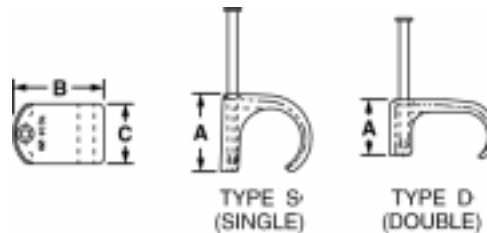


Part Number†	Bundle Range Diameter	Dimensions inches (mm)	Material	Color	Where Used	Mounting Method	Packaging*			
							Std. Pkg. Qty.	Std. Ctn. Qty.	Bulk Pkg. Qty.	Bulk Ctn. Qty.
TWR-C	.38 (9.5)	See Drawing	Nylon	Natural	Indoors	#6 (M3) Screw or Rivet	100	1000	1000	—
TWR-C0			Weather Resistant Nylon	Black	Outdoors/ Indoors		100	1000	1000	—

## Tack Clips



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



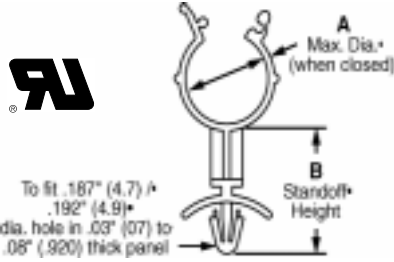
Part Number†	Type	Max. Bundle Dia. In. (mm)	Dimensions inches (mm)			Coaxial Cross RG#	Material	Color	Where Used	Mounting Method	Packaging*			
			A	B	C						Std. Pkg. Qty.	Std. Ctn. Qty.	Bulk Pkg. Qty.	Bulk Ctn. Qty.
TC3-5-C100	S	.13 (3.5)	.20 (5.1)	.29 (7.4)	.23 (5.8)	187	Weather Resistant Polypropylene	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 (5)	.31 (7.9)	.39 (9.9)	.23 (5.8)	58					—	—	100	1000
TC7-10-C100	S	.26 (6.5)	.38 (9.7)	.49 (12.5)	.35 (8.9)	59					—	—	100	1000
TC10-14-C100	S	.36 (9.2)	.51 (13)	.59 (14.9)	.45 (11.4)	6A					—	—	100	1000
TC14-20-C100	S	.49 (12)	.67 (17)	.79 (20.6)	.54 (13.7)	8A,9B,11					—	—	100	1000
TC5x8-C100	D	.20 x .30 (5 x 8)	.30 (8.8)	.54 (13.7)	.27 (6.8)	—					—	—	100	1000
TC6x10-C100	D	.23 x .37 (6 x 9.5)	.34 (8.6)	.62 (15.7)	.34 (8.6)	—					—	—	100	1000
TC7x14-C100	D	.26 x .46 (7 x 12)	.36 (9.1)	.70 (17.8)	.43 (10.9)	—					—	—	100	1000
TC9x18-C100	D	.38 x .65 (10 x 17)	.50 (12.7)	.89 (22.6)	.52 (13.2)	—					—	—	100	1000

# PANDUIT® Wire Mounting Devices

## 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.



Easy to install and use.



Part Number†	Dimensions inches (mm)		Panel Dimensions		Material	Color	Where Used	Mounting Method	Packaging*			
	A	B	Thickness Max.	Hole Diameter					Std. Pkg. Qty.	Std. Ctn. Qty.	Bulk Pkg. Qty.	Bulk Ctn. Qty.
WS25-25-C	.25 (6.4)	.25 (6.4)	.03 to .08 (0.7 to 2.0)	.187 to .192 (4.7 to 4.9)	Nylon	Natural	Indoors	Inserted into pre-drilled hole	100	1000	1000	—
WS25-50-C	.25 (6.4)	.50 (12.7)							100	1000	1000	—
WS25-75-C	.25 (6.4)	.75 (19.1)							100	1000	1000	—
WS35-25-C	.35 (8.9)	.25 (6.4)							100	1000	1000	—
WS35-50-C	.35 (8.9)	.50 (12.7)							100	1000	1000	—
WS35-75-C	.35 (8.9)	.75 (19.1)							100	1000	1000	—
WS50-25-C	.48 (12.2)	.25 (6.4)							100	1000	1000	—
WS50-50-C	.48 (12.2)	.48 (12.2)							100	1000	1000	—
WS50-75-C	.48 (12.2)	.75 (19.1)							100	1000	1000	—
WS75-25-C	.80 (20.3)	.25 (6.4)							100	1000	1000	—
WS75-50-C	.80 (20.3)	.50 (12.7)							100	1000	1000	—
WS75-75-C	.80 (20.3)	.75 (19.1)							100	1000	1000	—

\*Order the Number of Pieces Required in Multiples of Packaging Quantities.

†Part Numbers listed are for Standard Materials in Standard Package Quantity. For Bulk Package Part Numbers, see [Page 127](#).

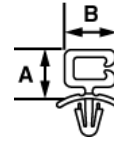
# PANDUIT® Wire Mounting Devices

## Wire Saddles

Funnel entry design for fast insertion of wires and cables. Used in pre-drilled .187" holes in .03" to .08" thick panels.



VWS  
Vertical



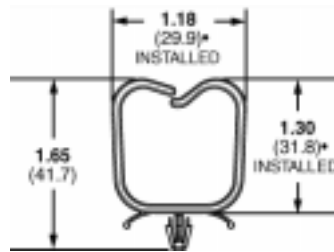
HWS  
Horizontal



Part Number†	Max. Bundle Dia. In. (mm)	Dimensions inches (mm)		Material	Color	Where Used	Mounting Method	Packaging*			
		A	B					Std. Pkg. Qty.	Std. Ctn. Qty.	Bulk Pkg. Qty.	Bulk Ctn. Qty.
VWS4218-C	.18 x .42 (5 x 11)	.58 (14.7)	.60 (15.2)	Nylon	Natural	Indoors	Pushed through .187" (4.7) dia. hole in panels up to .08" (2.0) thick.	100	500	1000	5000
VWS4238-C	.40 x .42 (10 x 11)	.78 (19.8)	.60 (15.2)					100	500	1000	5000
VWS4274-C	.74 x .42 (19 x 11)	1.14 (29)	.60 (15.2)					100	500	1000	5000
VWS42105-C	1.05 x .42 (27 x 11)	1.45 (36.8)	.60 (15.2)					100	500	1000	5000
HWS2819-C	.19 x .28 (5 x 7)	.42 (10.7)	.44 (11.2)					100	500	1000	5000

## Optical Fiber Network Saddle

The product is designed with rounded edges for routing fiber optic cables. This feature provides a very smooth surface between the mount and the fiber optic cable, thereby eliminating the potential for snagging and stress on the fiber optic cable.



Part Number†	Max. Bundle Dia. In. (mm)	Dimensions inches (mm)		Material	Color	Where Used	Mounting Method	Packaging*			
		A	B					Std. Pkg. Qty.	Std. Ctn. Qty.	Bulk Pkg. Qty.	Bulk Ctn. Qty.
VWS106-C	1.06 (26.9)	1.65 (41.7)	1.18 (29.9)	Nylon	Natural	Indoors	Pushed through .187 (4.7) dia. hole in panels up to .09" (2.2) thick.	100	500	1000	5000
VWS106-C20					Black			100	500	1000	5000

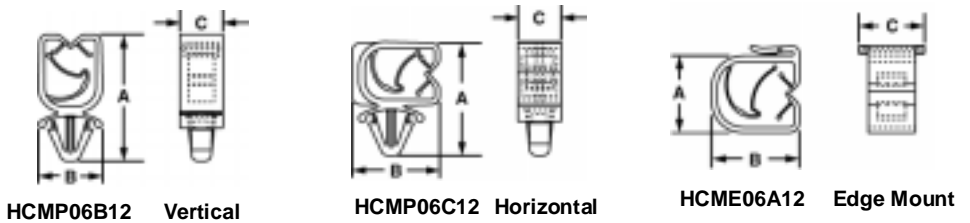


# PANDUIT® Wire Mounting Devices

## Harness Clips



Integral “spring” holds wire bundles tightly. Used in pre-drilled .250" (6.4mm) diameter holes in panels up to .105" (2.7mm) thick. Vertical and horizontal versions available.

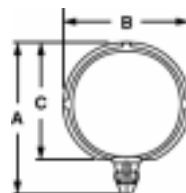


Part Number†	Max. Bundle Dia. In. (mm)	Dimensions inches (mm)			Material	Color	Where Used	Mounting Method	Packaging*			
		A	B	C					Std. Pkg. Qty.	Std. Ctn. Qty.	Bulk Pkg. Qty.	Bulk Ctn. Qty.
HCMP06B12-C20	Range .24 - .47 (5.9 - 12.5)	1.25 (31.8)	.59 (15.0)	.39 (10)	Nylon	Black	Indoors	Pushed through .250 (6.4) dia. hole in panels up to .105" (2.7) thick.	100	500	1000	—
HCMP06C12-C20	.24 - .47 (5.9 - 12.5)	1.10 (27.9)	.80 (20.2)	.39 (10)					100	500	1000	—
HCME06A12-C130	.24 - .47 (5.9 - 12.5)	.59 (15)	.74 (18.7)	.55 (14)	Acetal		See Dwg.	100	500	5000	10000	

## Snap-In Clips



The clips hold wire bundles securely and are placed on the bundle first, then attached to the panel. Designed for pre-drilled .250" holes in .03" to .10" thick panels.

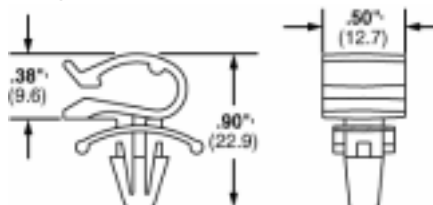


SICH25-C	.25 (6.4)	.82 (20.9)	.34 (8.6)	.40 (10.2)	Nylon	White	Indoors	Pushed through .250 (6.4) dia. hole in panels up to .105" (2.7) thick.	100	1000	1000	—
SICH38-C	.38 (9.6)	.98 (24.6)	.50 (12.8)	.54 (13.7)					100	1000	1000	—
SICH50-C	.50 (12.7)	1.11 (26.2)	.62 (15.7)	.67 (17.0)					100	1000	1000	—
SICH75-C	.75 (19)	1.40 (35.6)	1.0 (25.4)	.96 (24.4)					100	1000	1000	—
SICH100-C	1.0 (25.4)	1.65 (41.9)	1.25 (31.8)	1.21 (30.7)					100	1000	1000	—
SICH150-C	1.5 (38)	2.15 (54.6)	1.75 (44.5)	1.71 (43.4)					100	1000	1000	—

## Push Mount Cord Clip



The mount snaps easily into pre-drilled hole in panels up to .105" (2.7mm) thick. Integral mounting device eliminates the need for additional mounting hardware. The winged design holds mount in place—even in applications where vibration is present.



PMCC38H25-C	.38 (9.6)	See drawing	Nylon	Natural	Indoors	Pushed through .250 (6.4) dia. hole in panels up to .105" (2.7) thick.	100	1000	1000	—
PMCC38H25-M0			Weather Resistant Nylon	Black	Outdoors		—	—	1000	—

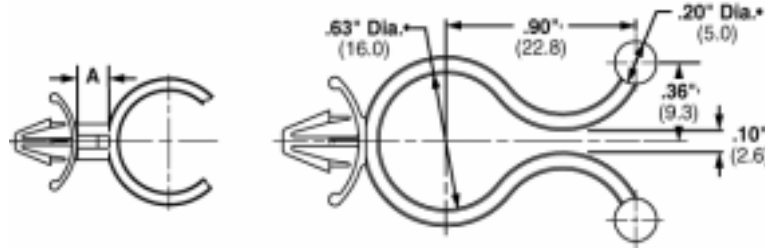
\*Order the Number of Pieces Required in Multiples of Packaging Quantities.

†Part Numbers listed are for Standard Materials in Standard Package Quantity. For Bulk Package Part Numbers, see [Page 127](#).

# PANDUIT® Wire Mounting Devices

## Twister Push Mounts

The Twister Push Mounts securely bundle and route wires and cords. They lift wires off boards to avoid hot component contact. Wire bundles load and unload with just a fingertip twist.



Part Number†	Max. Bundle Dia. In. (mm)	Dimensions inches (mm)				Material	Color	Where Used	Mounting Method	Packaging*			
		A								Std. Pkg. Qty.	Std. Ctn. Qty.	Bulk Pkg. Qty.	Bulk Ctn. Qty.
TPM-16-C	.63 (16.0)	0.00 (0.0)				Nylon	Natural	Indoors	For Circuit Boards or Chassis: .025" - .105" (0.64 - 2.67) thick in a .187" (4.7) dia. mounting hole	100	1000	1000	10000
TPM5-16-C	.63 (16.0)	.20 (5.0)			100					1000	1000	10000	
TPM10-16-C	.63 (16.0)	.39 (10.0)			100					1000	1000	10000	
TPM15-16-C	.63 (16.0)	.59 (15.0)			100					1000	1000	10000	
TPM20-16-C	.63 (16.0)	.79 (20.0)			100					1000	1000	10000	
TPM25-16-C	.63 (16.0)	.98 (25.0)			100					1000	1000	10000	
TPM30-16-C	.63 (16.0)	1.18 (30.0)			100					1000	1000	10000	

## Siding Clips

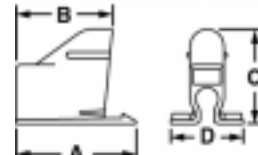
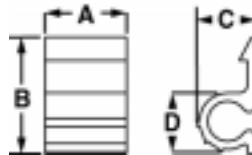
Attaches coax cable to buildings having "Pittsburgh Interlok" type aluminum or steel siding. Will not corrode or stain siding. Low profile, installs without drilling or nailing.

Horizontal Siding Clip

Vertical Siding Clip

HSC Horizontal Clip

VSC Vertical Clip

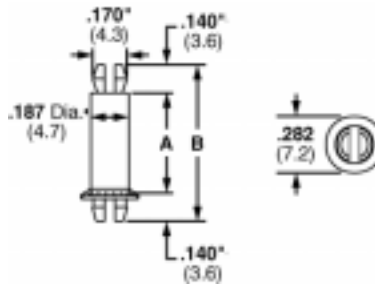
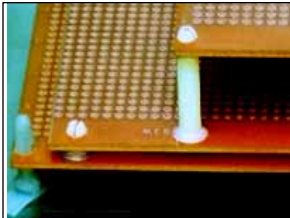


Part Number†	Max. Cable Width In. (mm)	Dimensions inches (mm)				Material	Color	Where Used	Mounting Method	Packaging*			
		A	B	C	D					Std. Pkg. Qty.	Std. Ctn. Qty.	Bulk Pkg. Qty.	Bulk Ctn. Qty.
HSC-.25-L	.250 (6.4)	.50 (12.7)	.65 (16.5)	.34 (8.6)	.37 (9.4)	Nylon	White	Indoors	Attach to Siding	50	500	500	—
HSC-.25-L100						Weather Resistant Polypropylene	Black	Outdoors		50	500	500	—
VSC-.25-L	.250 (6.4)	1.20 (30.5)	.98 (25.0)	1.00 (25.4)	.70 (17.8)	Nylon	White	Indoors		50	500	500	—
VSC-.25-L100						Weather Resistant Polypropylene	Black	Outdoors		50	500	500	—

# PANDUIT® Circuit Board Posts/Supports

## Circuit Board Posts

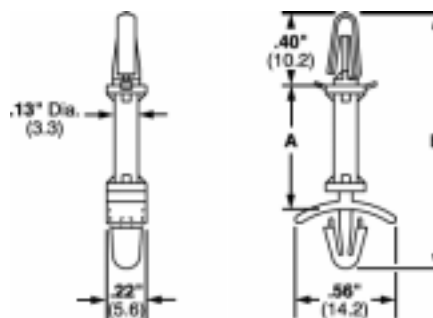
For board-to-board or board-to-chassis mounting. Posts snap into pre-drilled holes. Bell flange on bottom end provides greater stability. Releasable and reusable.



Part Number†	Dimensions inches (mm)					Material	Color	Where Used	Mounting Method	Packaging*			
	A	B	C	D	E					Std. Pkg. Qty.	Std. Ctn. Qty.	Bulk Pkg. Qty.	Bulk Ctn. Qty.
CBP12-C	.125 (3.2)	.405 (10.3)	See Drawing	Nylon	Natural	Indoors	For Circuit Boards or Chassis: .062" (1.5) thick with .156" (3.96) diameter mounting holes	100	1000	1000	—		
CBP25-C	.250 (6.4)	.530 (13.5)						100	1000	1000	—		
CBP31-C	.312 (7.9)	.592 (15.0)						100	1000	1000	—		
CBP37-C	.375 (9.5)	.655 (16.6)						100	1000	1000	—		
CBP50-C	.500 (12.7)	.780 (19.8)						100	1000	1000	—		
CBP62-C	.625 (15.9)	.905 (23.0)						100	1000	1000	—		
CBP75-C	.750 (19.1)	1.030 (26.2)						100	1000	1000	—		
CBP87-C	.875 (22.2)	1.155 (29.3)						100	1000	1000	—		
CBP100-C	1.00 (25.4)	1.280 (32.5)						100	1000	1000	—		

## 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. Releasable and reusable.



CBLS18-C	.187 (4.7)	.92 (23.4)	See Drawing	Nylon	Natural	Indoors	For Circuit Boards: .062" (1.5) thick with .156" (3.96) diameter mounting holes  For Chassis: .03" (.76) to .08" (2.0) thick with .187" (4.75) to .192" (4.88) diameter mounting holes	100	500	1000	—
CBLS25-C	.250 (6.4)	.98 (24.9)						100	1000	1000	—
CBLS37-C	.375 (9.5)	1.11 (28.2)						100	1000	1000	5000
CBLS50-C	.500 (12.7)	1.23 (31.2)						100	1000	1000	5000
CBLS62-C	.625 (15.9)	1.35 (34.3)						100	1000	1000	—
CBLS75-C	.750 (19.1)	1.48 (37.5)						100	1000	1000	—

\*Order the Number of Pieces Required in Multiples of Packaging Quantities.

†Part Numbers listed are for Standard Materials in Standard Package Quantity. For Bulk Package Part Numbers, see [Page 127](#).

# PANDUIT® Wiring Accessories Technical Data

## Physical Characteristics of Wiring Accessory Materials

### Part Number System Example

TMEH	S10	C	#
<b>Part Description</b>	<b>Mounting Method</b>	<b>Package Size</b>	<b>Color/Material</b>
T = Tie M = Mount EH = Extra Heavy *(Cable Tie Cross Section)	S10= Screw Applied (#10 Screw) A = Rubber Tape (most applications) AT = Acrylic Tape (high temp. applications) R = Rivet Applied	X = 10 Q = 25 L = 50 C = 100 T = 200 D = 500 M = 1000	Blank=Natural 0 = Weather Resistant Black 8 = Gray 14 = Telco Gray 15 = Ivory 20 = Pigmented Black 30 = Heat Stabilized Nylon (Black) 69 = Flame Retardant Nylon (Ivory) 76 = TEFZEL ■ (Blue) 100 = Polypropylene Weather Resistant (Black) 120 = Weather Res. Nylon 12 (Black) 630 = Heat Stabilized Nylon 6 (Black) 639 = Heat Stabilized Nylon 6 (Natural) 702 = HALAR▲ (Maroon)
*Cable Tie Cross Section: SM = Sub-Miniature M = Miniature I = Intermediate S = Standard LH = Light Heavy H = Heavy EH = Extra Heavy	NOTE: Metric equivalent to screw sizes shown throughout catalog. #2 = M2 #6 = M3 #10 = M5 #4 = M2.5 #8 = M4 1/4" = M6 #5 = M3		

Note: The colors and materials shown for parts in this section are standard on some items. Consult factory for availability of other colors on special order basis.

### Physical Properties and Color of Wiring Accessory Materials

Design Criteria	Nylon 6.6				
	Natural	Weather Res.	Pigmented Blk.	Heat Stabilized	Flame Retardant
Color	Natural	Black	Black	Black	Ivory
Part No. Suffix	None	0	20	30	69
UL Flammability	94V-2	94V-2	94V-2	94V-2	94V-0
Gamma Radiation Resistance	1 x 10 <sup>6</sup> Rads	1 x 10 <sup>6</sup> Rads	1 x 10 <sup>6</sup> Rads	1 x 10 <sup>6</sup> Rads	1 x 10 <sup>6</sup> Rads
Water Absorption (24 hours)	1.2%	1.2%	1.2%	1.2%	1.2%
UV Resistance	Poor	Good	Fair	Good	Poor
Max. Continuous Use Temperature	185 °F (85 °C)	185 °F (85 °C)	185 °F (85 °C)	221 °F (104 °C)	203 °F (95 °C)
Min. Continuous Use Temperature	-40 °F (-40 °C)	-40 °F (-40 °C)	-40 °F (-40 °C)	-40 °F (-40 °C)	-40 °F (-40 °C)

### Physical Properties and Color of Wiring Accessory Materials

Design Criteria	Nylon 6		Nylon 12	TEFZEL	Polypropylene Weather Res.	HALAR	ABS	PVC
	Heat Stabilized	Heat Stabilized						
Color	Black	Natural	Black	Blue	Black	Maroon	White	Lt. Gray
Part No. Suffix	630	639	120	76	100	702	None	None
UL Flammability	HB	HB	N/R	94V-0	Poor	94V-0	HB	94V-0
Gamma Radiation Resistance	N/A	N/A	3.5 x 10 <sup>6</sup> Rads	2 x 10 <sup>6</sup> Rads	1 x 10 <sup>6</sup> Rads	2 x 10 <sup>6</sup> Rads	N/A	N/A
Water Absorption (24 hours)	<0.4%	<0.4%	0.3%	<0.03%	0.1%	<0.03%	0.3%	0.25%
UV Resistance	Fair	Poor	Good	Excellent	Good	Excellent	Poor	Poor
Max. Continuous Use Temperature	250 °F (121 °C)	250 °F (121 °C)	176 °F (80 °C)	302 °F (150 °C)	185 °F (85 °C)	284 °F (140 °C)	185 °F (85 °C)	122 °F (50 °C)
Min. Continuous Use Temperature	-40 °F (-40 °C)	-40 °F (-40 °C)	-40 °F (-40 °C)	-50 °F (-46 °C)	-40 °F (-40 °C)	-50 °F (-46 °C)	-40 °F (-40 °C)	N/A

■ TEFZEL is the Registered Trademark for E.I. DuPont Co. fluoropolymer.

▲ HALAR is the Registered Trademark for Ausimont, Inc. fluoropolymer.

# Selection and Use of Adhesive Mounts

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## Selection and Use of PANDUIT® Adhesive Mounts

### General Introduction

**PANDUIT** adhesive mounts provide a quick, economical and dependable method of supporting, routing and protecting wires or cables. Some are used with **PANDUIT** cable ties and others used independently. 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)

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### General Mount Guidelines

A. **PANDUIT** 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.

Two types of double-coated polymeric foam adhesive tape are available. Rubber based type, the most widely used and generally recommended; and acrylic based type, the better choice for outdoor and higher temperature applications.

B. **PANDUIT** epoxy adhesive mounts are supplied for use on rough surfaces indoors or outdoors and require mixing a two-part Panduit-supplied epoxy adhesive before application.

### Choosing the Right Adhesive

Panduit 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 can be 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°F to +120°F. The rubber based adhesive tape is the best choice for the vast majority of adhesive mount applications, including applications where powder coated surfaces are being used.

The second tape available is produced with an acrylic based adhesive (identified by an “-AT” in the part number). This tape is for use in environments where continuous exposure to temperatures as high as 180°F is possible. The acrylic based adhesive develops its maximum strength over a longer period of time than our rubber based adhesive. It is recommended that mounts produced with acrylic adhesive are allowed to dwell 8 hours after installation prior to loading. The acrylic based adhesive tape is a good choice in environments with prolonged exposure to UV rays or in environments with prolonged exposure to temperatures over 120°F. Panduit 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** mounts and is packaged in pre-measured cups which insures proper ratios of resin and hardener are being mixed, as well as eliminates waste.



# Selection and Use of Adhesive Mounts

## Application Chart

Since Panduit 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.

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 <sup>1</sup>	Good <sup>1</sup>	Good
Paper	Good	Good	Fair
Concrete, Stone, Masonry	Not Recommended	Not Recommended	Good
<b>Chemical Resistance</b>			
Water	Good	Good	Poor
Oil	Poor	Fair <sup>3</sup>	Good
Gasoline	Poor	Fair <sup>3</sup>	Fair
Dilute Acids	Poor	Fair <sup>3</sup>	Fair
Dilute Alkalis	Good	Fair <sup>3</sup>	Fair
Organic Solvents	Poor	Fair <sup>3</sup>	Not Recommended
Outdoor Exposure	Not Recommended	Good	Good <sup>2</sup>

## Mount Spacing

To determine the number of mounts to use in a given application, the following formula can be used as a guideline:

$$\frac{\text{Cable or weight (lbs./ft.)}}{\text{Static Load rating of Mount (lbs/mt.)}} = \text{Spacing} \frac{\text{Mounts}}{\text{Ft.}}$$

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.

See pages 118-120 for static load ratings of mounts. For specific applications we recommend individual testing prior to production use.

## Surface Preparation

For best results, **PANDUIT** adhesive mounts should be applied to clean, dry, grease-free surfaces. It is recommended that for each individual application a solvent or cleanser be used to thoroughly prepare the surface for mount installation to obtain best results. The following are recommended guidelines:

1. For rubber and acrylic based foam tape adhesives, isopropyl alcohol may be used on most surfaces.
2. 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

### Pressure Sensitive Adhesive Mounts

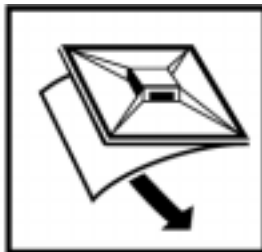
For proper installation of adhesive mounts with foam tape, simply remove the release liner from foam adhesive and place the mount in the desired location. Apply firm pressure to the mount to insure proper adhesion. Avoid touching the adhesive prior to placing the mount on the surface.



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** 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.



# Selection and Use of Adhesive Mounts

## Proper Storage Conditions

All **PANDUIT** 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°F (21°C) and 45% Relative Humidity (R.H.)
2. For epoxy type adhesives, store in temperatures of 40°F (4°C) to 75°F (25°C) and relative humidity not in excess of 45%.

Storage in opened containers is not recommended. Using the guidelines above, the average shelf life of foam tape is 2 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** 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 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** 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.

## Product Information\*

The descriptions below refer to the adhesive mount information which appears in the following product information chart:

**Part Number:** The package code suffix indicates quantity, color and mount material. Most **PANDUIT** Adhesive Backed Mounts are available in both standard and bulk packaging and some part numbers are available in smaller merchandising packaging. Consult your local distributor or call our factory for specifics on additional package sizes.

**Dimension:** Given are over-all mount with adhesive dimensions; L = Base Length, W = Base Width, H = Height.

**Adhesive Type:** Refer to the preceding pages for more details on adhesives offered by Panduit.

**Cable Ties:** **PANDUIT** mounts are designed to use **PANDUIT** Cable Ties. The respective size(s) of tie is given.

**Maximum Static Load:** Values are given for shear, and/or normal loading, and optimal adhesion between surfaces.

**Normal Service Temperature Range:** Given are the continuous use temperature ranges. In most situations, mounts can withstand higher temperatures for limited periods of time. Mounts should be user tested to determine their suitability in specific applications.

**Minimum Installation Temperature:** Although not shown on the following pages, both rubber based and acrylic based adhesives develop their optimum strength faster when installed in temperatures above 70°F (21°C).

**Dwell Time:** Values given are time to allow mount to set before loading. Dwell time is increased when the application temperature is below minimum. NOTE: Acrylic based adhesives need to dwell for 8 hours prior to loading.

**Mount Material:** Given for each type of mount. A variety of additional materials may be available on many of the mounts listed; contact the factory for additional information on non-standard materials.

**Screw Hole Size:** Values are specified when applicable.

**U.L. Recognized:** Tested and recognized under the Underwriter's Laboratories, Inc., component recognition program.

# Selection and Use of Adhesive Mounts

Part Number	Overall Dimensions L" x W" x H" (mm)	Adhesive Type	Used with Cable Tie*	Maximum Static Load lb. (g)**	Normal Service Temp. °F (°C) Range	Recommended Installation Temp. °F (°C)	Dwell Time (Hrs.)	Mount Material	Screw Hole Size	U.L. Recognized
ABMM-A	.75 x .75 x .18 (19.1 x 19.1 x 4.6)	Rubber Tape	M, I	.3 (136)	-20 to 120 (-29 to 49)	70 (21)	2	White ABS	—	Yes
ABMM-AT	.75 x .75 x .18 (19.1 x 19.1 x 4.6)	Acrylic Tape	M, I	.3 (136)	-20 to 180 (-29 to 82)	70 (21)	8	White ABS	—	Yes
ABMS-A	1.13 x 1.13 x .25 (28.7 x 28.7 x 6.4)	Rubber Tape	M, I, S	.6 (272)	-20 to 120 (29 to 49)	70 (21)	2	Natural Nylon	1 @ #6 (M3)	Yes
ABMS-AT	1.13 x 1.13 x .25 (28.7 x 28.7 x 6.4)	Acrylic Tape	M, I, S	.6 (272)	-20 to 180 (-29 to 82)	70 (21)	8	Natural Nylon	1 @ #6 (M3)	Yes
ABM1M-A	0.5 x 0.5 x 0.16 (12.7 x 12.7 x 4.0)	Rubber Tape	M	.13 (59)	-20 to 120 (29 to 49)	70 (21)	2	White Nylon	—	Yes
ABM1M-AT	0.5 x 0.5 x 0.16 (12.7 x 12.7 x 4.0)	Acrylic Tape	M	.13 (59)	-20 to 180 (-29 to 82)	70 (21)	8	White Nylon	—	Yes
ABM2S-A	1.0 x 1.0 x .20 (25.4 x 25.4 x 5.2)	Rubber Tape	M, I, S	.5 (227)	-20 to 120 (29 to 49)	70 (21)	2	White ABS	2 @ #6 (M3)	Yes
ABM2S-AT	1.0 x 1.0 x .20 (25.4 x 25.4 x 5.2)	Acrylic Tape	M, I, S	.5 (227)	-20 to 180 (-29 to 82)	70 (21)	8	White ABS	2 @ #6 (M3)	Yes
ABM3H-A	1.5 x 1.5 x .25 (38.1 x 38.1 x 6.4)	Rubber Tape	M, I, S, LH, H	1.12 (508)	-20 to 120 (29 to 49)	70 (21)	2	White Nylon	2 @ #6 (M3)	Yes
ABM3H-AT	1.5 x 1.5 x .25 (38.1 x 38.1 x 6.4)	Acrylic Tape	M, I, S, LH, H	1.12 (508)	-20 to 180 (-29 to 82)	70 (21)	8	White Nylon	2 @ #6 (M3)	Yes
ABM4H-A	2.0 x 2.0 x .25 (38.1 x 38.1 x 6.4)	Rubber Tape	M, I, S, LH, H	2 (907)	-20 to 120 (29 to 49)	70 (21)	2	White Nylon	2 @ #6 (M3)	Yes
ABM4H-AT	2.0 x 2.0 x .25 (38.1 x 38.1 x 6.4)	Acrylic Tape	M, I, S, LH, H	2 (907)	-20 to 180 (-29 to 82)	70 (21)	8	White Nylon	2 @ #6 (M3)	Yes
ABM100-A	1.0 x 1.0 x .20 (25.4 x 25.4 x 5.2)	Rubber Tape	M, I, S	.5 (227)	-20 to 120 (29 to 49)	70 (21)	2	White Nylon	1 @ #6 (M3)	Yes
ABM100-AT	1.0 x 1.0 x .20 (25.4 x 25.4 x 5.2)	Acrylic Tape	M, I, S	.5 (227)	-20 to 180 (-29 to 82)	70 (21)	8	White Nylon	1 @ #6 (M3)	Yes
ACC19-A	.75 x .62 x .29 (19.1 x 15.7 x 7.4)	Rubber Tape	—	.2 (91)	-20 to 120 (29 to 49)	70 (21)	2	Natural Nylon	—	Yes
ACC19-AT	.75 x .62 x .29 (19.1 x 15.7 x 7.4)	Acrylic tape	—	.2 (91)	-20 to 180 (-29 to 82)	70 (21)	8	Natural Nylon	—	Yes
ACC38-A	1.0 x 1.0 x .41 (25.4 x 25.4 x 10.4)	Rubber Tape	—	.5 (227)	-20 to 120 (29 to 49)	70 (21)	2	Natural Nylon	—	Yes
ACC38-AT	1.0 x 1.0 x .41 (25.4 x 25.4 x 10.4)	Acrylic Tape	—	.5 (227)	-20 to 180 (-29 to 82)	70 (21)	8	Natural Nylon	—	Yes
ACC62-A	1.12 x 1.25 x .64 (28.4 x 31.8 x 16.3)	Rubber Tape	—	.7 (318)	-20 to 120 (29 to 49)	70 (21)	2	Natural Nylon	—	Yes
ACC62-AT	1.12 x 1.25 x .64 (28.4 x 31.8 x 16.3)	Acrylic tape	—	.7 (318)	-20 to 180 (-29 to 82)	70 (21)	8	Natural Nylon	—	Yes
ADCC31-AT	1.0 x .70 x .48 (25.4 x 17.8 x 16.3)	Acrylic tape	—	.25 (113)	-20 to 180 (-29 to 82)	70 (21)	8	White ‡NORYL	—	—
AJC12-A	1.0 x .86 x .23 (25.4 x 21.8 x 5.8)	Rubber Tape	—	.4 (182)	-20 to 120 (29 to 49)	70 (21)	2	Gray PVC	—	Yes
AJC19-A	1.25 x .89 x .30 (31.8 x 22.6 x 7.6)	Rubber Tape	—	.5 (227)	-20 to 120 (29 to 49)	70 (21)	2	Gray PVC	—	Yes
AJC25-A	1.5 x .92 x .35 (28.1 x 23.4 x 8.9)	Rubber Tape	—	.6 (272)	-20 to 120 (-29 to 49)	70 (21)	2	Gray PVC	—	Yes
AJC31-A	1.75 x 1.23 x .44 (44.5 x 31.2 x 11.2)	Rubber Tape	—	.9 (408)	-20 to 120 (-29 to 49)	70 (21)	2	Gray PVC	—	Yes
AJC38-A	2.0 x 1.28 x .54 (50.8 x 32.5 x 13.7)	Rubber Tape	—	1 (454)	-20 to 120 (-29 to 49)	70 (21)	2	Gray PVC	—	Yes
AMC25-AT	1.0 x .81 x .40 (25.4 x 32.5 x 10.2)	Acrylic tape	—	.4 (182)	-20 to 120 (-29 to 49)	70 (21)	8	White PVC	—	—
AM2	1.2 x 1.2 x .13 (31.4 x 31.4 x 3.2)	User Supplied	M, I, S	DEPENDS ON ADHESIVE SELECTION BY USER				Natural Nylon	—	Yes
ARC.68-A	1.0 x 1.0 x 1.04 (25.4 x 25.4 x 26.4)	Rubber Tape	—	.5 (227)	-20 to 120 (-29 to 49)	70 (21)	2	White Polypropylene	1 @ #6 (M3)	Yes

\*Tie Cross Section: M = Miniature I = Intermediate  
S = Standard LH = Light Heavy H = Heavy

\*\*Static load is stated at 70° F (21°C)

Static load at temperature minimums and maximums will be reduced.

‡NORYL Thermoplastic Resin is a Registered Trademark of General Electric Co.

# Selection and Use of Adhesive Mounts

Part Number	Overall Dimensions L" x W" x H" (mm)	Adhesive Type	Used with Cable Tie*	Maximum Static Load lb. (g)**	Normal Service Temp. °F (°C) Range	Recommended Installation Temp. °F (°C)	Dwell Time (Hrs.)	Mount Material	Screw Hole Size	U.L. Recognized
ASMS-A	1.1 x 1.1 x .35 (28.6 x 28.6 x 8.9)	Epoxy*	M, I, S	10 (4540)	-40 to 180 (-40 to 82)	32 (0)	12	Nat. Nylon & Aluminum	—	—
A1C12-A	0.77 x 0.63 x 0.23 (19.6 x 16.0 x 5.8)	Rubber Tape	—	.14 (64)	-20 to 120 (-29 to 49)	70 (21)	2	Gray PVC	—	Yes
A1C25-A	0.91 x .063 x 0.23 (23.1 x 16.0 x 9.7)	Rubber Tape	—	.14 (64)	-20 to 120 (-29 to 49)	70 (21)	2	Gray PVC	—	Yes
A1C38-A	1.04 x 0.63 x 0.51 (26.4 x 16.0 x 13.0)	Rubber Tape	—	.14 (64)	-20 to 120 (-29 to 49)	70 (21)	2	Gray PVC	—	Yes
A1C50-A	1.17 x 0.63 x .064 (29.7 x 16.0 x 16.3)	Rubber Tape	—	.14 (64)	-20 to 120 (-29 to 49)	70 (21)	2	Gray PVC	—	Yes
A2C12-A	1.3 x 0.63 x 0.23 (33.0 x 16.0 x 5.8)	Rubber Tape	—	.29 (131)	-20 to 120 (-29 to 49)	70 (21)	2	Gray PVC	—	Yes
A2C25-A	1.43 x 0.63 x 0.36 (36.3 x 16.0 x 9.1)	Rubber Tape	—	.29 (131)	-20 to 120 (-29 to 49)	70 (21)	2	Gray PVC	—	Yes
A2C38-A	1.56 x 0.63 x 0.49 (39.6 x 16.0 x 12.4)	Rubber Tape	—	.29 (131)	-20 to 120 (-29 to 49)	70 (21)	2	Gray PVC	—	Yes
A2C50-A	1.68 x 0.63 x 0.61 (42.7 x 16.0 x 15.5)	Rubber Tape	—	.29 (131)	-20 to 120 (-29 to 49)	70 (21)	2	Gray PVC	—	Yes
BEC38-A	1.46 x 1.24 x 0.52 (37.1 x 31.5 x 13.2)	Rubber Tape	—	.91 (411)	-20 to 120 (-29 to 49)	70 (21)	2	Natural Nylon	—	Yes
BEC62-A	1.46 x 1.24 x 0.79 (37.1 x 31.5 x 20.1)	Rubber Tape	—	.91 (411)	-20 to 120 (-29 to 49)	70 (21)	2	Natural Nylon	—	Yes
BEC75-A	1.46 x 1.49 x 0.89 (37.1 x 37.8 x 22.6)	Rubber Tape	—	1.09 (493)	-20 to 120 (-29 to 49)	70 (21)	2	Natural Nylon	—	Yes
EMS-A	1.0 x 1.0 x .26 (25.4 x 25.4 x 6.6)	Epoxy*	M, I, S	10 (4540)	-40 to 180 (-40 to 82)	32 (0)	12	Natural Nylon	—	—
FCC-A	1.0 x 1.09 x .42 (25.4 x 27.7 x 10.7)	Rubber Tape	—	.5 (227)	-20 to 120 (-29 to 49)	70 (21)	2	Gray PVC	—	Yes
FCC5-A	1.0 x 0.56 x .28 (25.4 x 14.1 x 7.1)	Rubber Tape	—	.25 (113)	-20 to 120 (-29 to 49)	70 (21)	2	Gray PVC	—	Yes
FCM1-A	1.21 x 1.0 x .46 (30.7 x 25.4 x 11.7)	Rubber Tape	—	.5 (227)	-20 to 120 (-29 to 49)	70 (21)	2	Gray Nylon	1 @ #6 (M3)	Yes
FCM1.2-A	1.37 x 1.0 x .46 (34.8 x 25.4 x 11.7)	Rubber Tape	—	.62 (281)	-20 to 120 (-29 to 49)	70 (21)	2	Gray Nylon	1 @ #6 (M3)	Yes
FCM2-A	2.22 x 1.0 x .52 (56.4 x 25.4 x 13.2)	Rubber Tape	—	1 (454)	-20 to 120 (-29 to 49)	70 (21)	2	Gray Nylon	2 @ #6 (M3)	Yes
FCM3.25-A	3.38 x 1.0 x .68 (85.9 x 25.4 x 17.3)	Rubber Tape	—	1.5 (681)	-20 to 120 (-29 to 49)	70 (21)	2	Gray Nylon	2 @ #6 (M3)	Yes
LC3-A	.75 x .77 x .46 (19.1 x 19.6 x 11.7)	Rubber Tape	—	.28 (127)	-20 to 120 (-29 to 49)	70 (21)	2	Gray PVC	—	Yes
LC5-A	1.0 X 1.0 X .57 (25.4 X 25.4 X 14.5)	Rubber Tape	—	.5 (227)	-20 to 120 (-29 to 49)	70 (21)	2	Gray PVC	—	Yes
LC10-A	1.0 X 1.51 X .94 (25.4 X 38.4 X 23.9)	Rubber Tape	—	.6 (272)	-20 to 120 (-29 to 49)	70 (21)	2	Gray PVC	—	Yes
LPFCM14-A	2.56 X 0.50 X 0.165 (65.0 X 12.7 X 4.2)	Rubber Tape	—	.25 (113)	-20 to 120 (-29 to 49)	70 (21)	2	Gray Nylon	2 @ #6 (M3)	Yes
LPFCM22-A	3.31 X 0.50 X 0.165 (84.1 X 12.7 X 4.2)	Rubber Tape	—	.25 (113)	-20 to 120 (-29 to 49)	70 (21)	2	Gray Nylon	2 @ #6 (M3)	Yes
LPFCM34-A	4.65 X 0.50 X 0.165 (115.8 X 12.7 X 4.2)	Rubber Tape	—	.25 (113)	-20 to 120 (-29 to 49)	70 (21)	2	Gray Nylon	2 @ #6 (M3)	Yes
LWC19-A	.61 x .85 x .39 (15.5 x 21.6 x 9.9)	Rubber Tape	—	.25 (113)	-20 to 120 (-29 to 49)	70 (21)	2	Gray Nylon	—	Yes
LWC25-A	1.0 X .88 X .45 (25.4 X 22.4 X 11.4)	Rubber Tape	—	.45 (204)	-20 to 120 (-29 to 49)	70 (21)	2	Gray Nylon	—	Yes

\*Tie Cross Section: M = Miniature I = Intermediate  
S = Standard LH = Light Heavy H = Heavy

\*\*Static load is stated at 70° F (21°C)

Static load at temperature minimums and maximums will be reduced

•PANDUIT Part No: EMA Epoxy

# Selection and Use of Adhesive Mounts

Part Number	Overall Dimensions L" x W" x H" (mm)	Adhesive Type	Used with Cable Tie*	Maximum Static Load lb. (g)**	Normal Service Temp. °F (°C) Range	Recommended Installation Temp. °F (°C)	Dwell Time (Hrs.)	Mount Material	Screw Hole Size	U.L. Recognized
LWC38-A	1.0 X 1.0 X .56 (25.4 X 25.4 X 14.2)	Rubber Tape	—	.50 (227)	-20 to 120 (-29 to 49)	70 (21)	2	Gray Nylon	—	Yes
LWC50-A	1.0 X 1.25 X .67 (25.4 X 31.8 X 17.6)	Rubber Tape	—	.63 (284)	-20 to 120 (-29 to 49)	70 (21)	2	Gray Nylon	—	Yes
LWC75-A	1.232 x 1.476 x .91 (31.3 x 37.4 x 23.1)	Rubber Tape	—	.93 (417)	-20 to 120 (-29 to 49)	70 (21)	2	Gray Nylon	—	Yes
LWC100-A	1.98 x 2.225 x 1.26 (50.3 x 56.5 x 32.0)	Rubber Tape	—	2.25 (1020)	-20 to 120 (-29 to 49)	70 (21)	2	Gray Nylon	—	Yes
MACC25-A	0.77 X .054 X 0.40 (19.5 X 13.6 X 10.2)	Rubber Tape	—	.19 (86)	-20 to 120 (-29 to 49)	70 (21)	2	Zinc Plated Steel	—	Yes
MACC62-A	1.18 X 0.78 X 0.75 (30.0 X 19.7 X 19.0)	Rubber Tape	—	.44 (200)	-20 to 120 (-29 to 49)	70 (21)	2	Zinc Plated Steel	—	Yes
SMS-A	2.0 X 1.0 X .35 (50.8 X 25.4 X 8.9)	Rubber Tape	†S	1 (454)	-20 to 120 (-29 to 49)	70 (21)	2	White ABS	2 @ #6 (M3)	Yes
TM1A	.51 x .33 x .23 (12.8 x 8.3 x 5.8)	User Supplied	M	DEPENDS ON ADHESIVE SELECTED BY USER				Natural Nylon	—	Yes
TM2A	.59 x .38 x .27 (14.9 x 9.5 x 6.9)	User Supplied	M, I, S					Natural Nylon	—	Yes
TM3A	.88 x .63 x .38 (22.2 x 15.9 x 9.7)	User Supplied	M, I, S, H					Natural Nylon	—	Yes
VCC25-A	1.0 x .5 x .44 (25.4 x 12.7 x 11.2)	Rubber Tape	—					.25 (113)	-20 to 120 (-29 to 49)	70 (21)

\*Tie Cross Section: M = Miniature I = Intermediate

S = Standard LH = Light Heavy H = Heavy

\*\*Static load is stated at 70° F (21°C)

Static load at temperature minimums and maximums will be reduced

†Use with PLT/PRT1.5S or PLT/PRT2S

# PANDUIT® Harness Board Accessories

## Harness Board Accessories

**PANDUIT** harness board accessories provide for the 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** 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 a uniform height of approx. 1.33 inches (33.8mm) (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 SHHH1.S8 or SHH3-S8 harness board accessories.

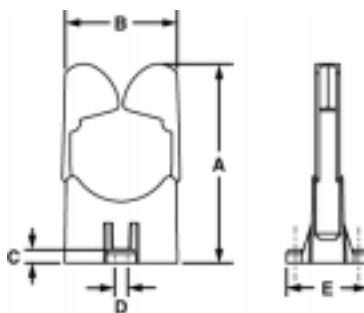


This height suitable for use of PAT1M Automatic Cable Tie Installation Tool.

## Wire Retainers

### RER Type Replaceable Elastic Retainers

As wires are individually inserted, the bundle is pre-formed. When harness is complete, it can be easily snapped out. Three sizes available for 1/2" (12.7), 3/4" (19.0) and 1 1/4" (31.7) bundles.



#### Replacement Elastic

For economy, the elastic band can be replaced in the RER Elastic Retainers without removing the RER base.

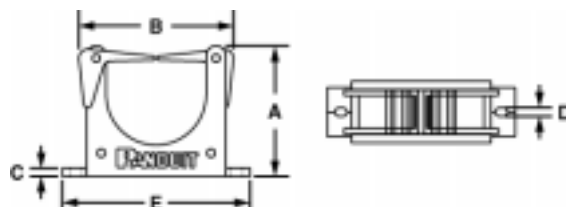
Part Number	Pkg. Qty.
RER.5E-X	10
RER.75E-X	10
RER1.25E-X	10

Part Number†	Max. Dia. In (mm)	Dimensions Inches (mm)					Material & Color	Mounting Method	Std. Pkg. Qty.	Std. Ctn. Qty.
		A	B	C	D	E				
<b>RER.5-S6-X</b>	.5 (12.7)	1.82 (46.2)	.84 (21.3)	.18 (4.7)	.141 (3.6)	1.18 (30.0)	Black Nylon and Acetal	#6 (M3) Screw	10	50
<b>RER.75-S6-X</b>	.75 (19.0)	2.12 (53.9)	1.12 (28.4)		.145 (3.7)				10	50
<b>RER1.25-S6-X</b>	1.25 (31.8)	2.75 (69.9)	1.64 (41.7)		.145 (3.7)				10	50

Most commonly used parts appear in **BOLD**.

### 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).



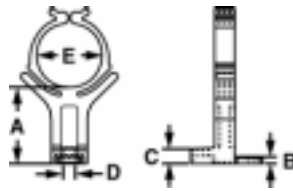
Part Number†	Max. Dia. In (mm)	Dimensions Inches (mm)					Material & Color	Mounting Method	Std. Pkg. Qty.	Std. Ctn. Qty.
		A	B	C	D	E				
ER.5-E4-X	.5 (12.7)	1.00 (25.4)	1.00 (25.4)	.15 (3.8)	.120 (3.0)	1.90 (48.3)	Black Nylon and ABS	#4 (M2.5) Screws	10	100
ER1.25-E4-X	1.25 (31.8)	2.00 (50.8)	2.40 (61.0)		.120 (3.0)				2.90 (73.7)	10

\*Order the Number of Pieces Required in Multiples of Packaging Quantities.  
†Part Numbers listed are for Standard Materials in Standard Package Quantity.



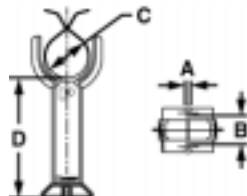
# PANDUIT® Harness Board Accessories

## Bundle Retainers



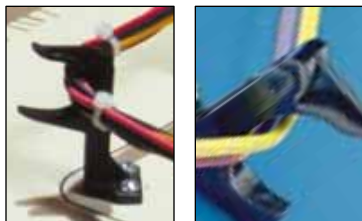
Spring fingers with large lead in, facilitate fast routing of wires and easy removal of completed harness. Overlapping feet allow the retainers to be butted together for wire breakouts. Three sizes available for 1/2" (12.7), 3/4" (19.0) and 2.00" (50.8) bundles.

Part Number†	Max. Dia. In (mm)	Dimensions Inches (mm)					Material & Color	Mounting Method	Std. Pkg. Qty.	Std. Ctn. Qty.
		A	B	C	D	E				
BR.5-E6-C	.5 (12.7)	1.07 (27.2)	.09 (2.3)	.20 (5.1)	.145 (3.7)	.52 (13.2)	Black Acetal	#6 (M3) Screws	100	500
BR.75-E6-C	.75 (19.0)	.95 (24.1)				.76 (19.3)			100	500



BR2-1.5-X	2.00 (50.8)	.26 (6.6)	1.42 (36.1)	2.12 (54.0)	1.62 (41.1)	—	Black Acetal	1/4-20 (M6) Screws	10	100
BR2-4-X	2.00 (50.8)	.26 (6.6)	1.42 (36.1)	2.12 (54.0)	4.00 (101.6)	—			10	100
BR2-6-X	2.00 (50.8)	.26 (6.6)	1.42 (36.1)	2.12 (54.0)	6.00 (152.4)	—			10	100

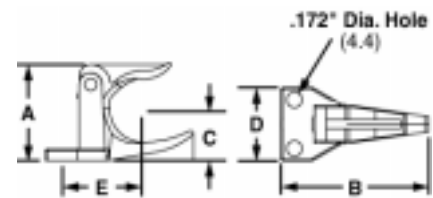
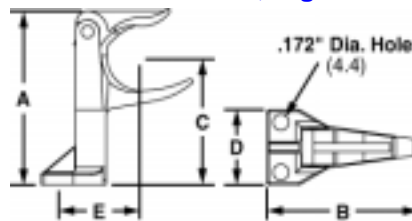
## Corner Posts



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

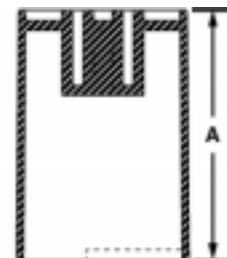
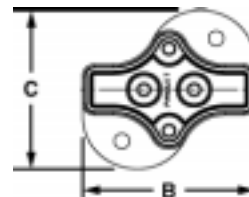
CPL Corner Post, Low



CPH.75-S8-X	.75 (19.0)	1.78 (45.3)	1.60 (40.8)	1.35 (34.4)	.90 (22.9)	1.18 (30.0)	Black Acetal	#8 (M4) Screws	10	100
CPL.75-S8-X		1.08 (27.4)	1.52 (38.6)	.56 (14.2)	.88 (22.4)	1.11 (28.2)			10	100

## Harness Board PAT2 Adapter Base

Harness board PAT2 adapter base can be used to raise wire retainers (RER.5, .75, 1.25), bundle retainers (BR.5, .75) and corner posts (CPH.75, CPL.75) to accommodate the PAT2 automatic cable tie installation tool.

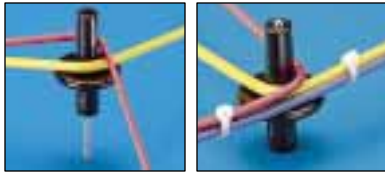


Part Number†	A	B	C	Material & Color	Mounting Method	Std. Pkg. Qty.	Std. Ctn. Qty.
HBP2AB-X	2.501 (63.53)	1.707 (43.36)	1.608 (40.89)	Black Nylon	#6 (M3) Screw	10	100



# PANDUIT® Harness Board Accessories

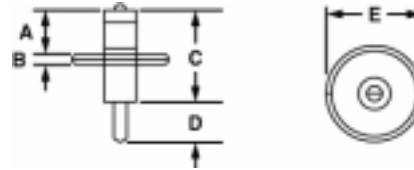
## T-Junction Fixture



In the "up" position to form harness

In the "down" position to tie and remove harness.

Using an integral harness board nail, the fixture moves up and down (see photos) to form "T" junction. Unique design reduces cable tie usage by 1/3 compared to other fixtures.

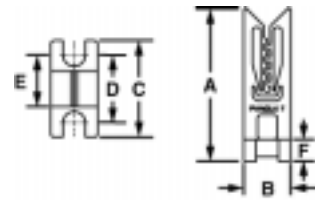


Part Number†	Max. Dia. In (mm)	Dimensions Inches (mm)					Material & Color	Mounting Method	Std. Pkg. Qty.	Std. Ctn. Qty.
		A	B	C	D	E				
TJF-X	1.34 (34.0)	.75 (19.1)	.12 (3.0)	1.39 (35.1)	.70 (17.8)	1.12 (28.4)	Black Acetal and Nickel Plated Steel	Integral Nail	10	100

## Wire End Holder

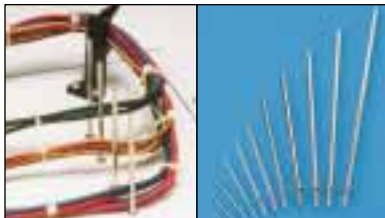


Secures wire ends with or without terminations while harness is being fabricated. Wires can be easily added or removed from the top, but will hold the wire from axial movement. Used with #28 thru #16 AWG wires. Two mounting slots .16 (4.1) for #8 (M4) screws.

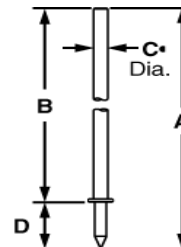


Part Number†	Dimensions Inches (mm)						Material & Color	Mounting Method	Std. Pkg. Qty.	Std. Ctn. Qty.
	A	B	C	D	E	F				
WEH-E8-C	1.25 (31.8)	.38 (9.7)	.79 (20.0)	.55 (14.0)	.29 (7.4)	.18 (4.6)	Black Acetal	#8 (M4) Screws	100	1000

## Harness Board Nails



Speeds routing of wires. All have a uniform driving depth insured by collar stop.



Available in standard (HBN) and heavy duty (HBNH) types.

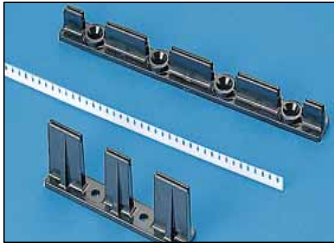
<b>HBN.75-T</b>	1.40 (35.6)	.78 (19.8)	.073 (1.9)	.62 (15.9)	—	—	Hardened Tempered Steel	Hammered into Harness Board	200	1000
<b>HBN1-T</b>	1.65 (41.9)	1.03 (26.2)	.073 (1.9)						200	1000
<b>HBN1.5-T</b>	2.15 (54.6)	1.53 (38.4)	.082 (2.1)						200	1000
<b>HBN2-T</b>	2.65 (67.3)	2.03 (51.6)	.093 (2.4)						200	1000
<b>HNB2.5-T</b>	3.17 (80.5)	2.55 (64.8)	.110 (2.8)						200	1000
<b>HBN3-T</b>	3.67 (93.2)	3.05 (77.5)	.120 (3.0)						200	1000
<b>HBN4-T</b>	4.67 (118.6)	4.03 (102.9)	.144 (3.7)						200	1000
<b>HBNH4-L</b>	4.75 (120.6)	4.0 (101.6)	.187 (4.7)	.75 (19.0)	—	—	Hardened Tempered Steel	Hammered into Harness Board	50	500
<b>HBNH5-L</b>	5.75 (146.0)	5.0 (127.0)							50	500
<b>HBNH6-L</b>	6.75 (171.4)	6.0 (152.4)							50	500
<b>HBNH7-L</b>	7.75 (196.8)	7.0 (177.8)							50	500
<b>HBNH8-Q</b>	8.75 (222.2)	8.0 (203.2)							25	125

Most commonly used parts appear in **BOLD**.

\*Order the Number of Pieces Required in Multiples of Packaging Quantities.  
†Part Numbers listed are for Standard Materials in Standard Package Quantity.

# PANDUIT® Harness Board Accessories

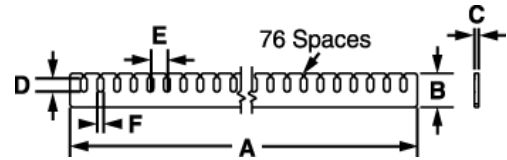
## Fanning Strip System



Assures that wires are held in a particular orientation in sophisticated wiring harnesses. Consists of fanning strip and fanning strip holder.

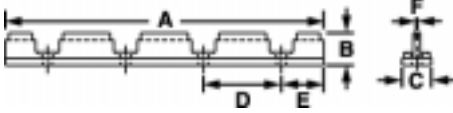
### Fanning Strip (FS156)

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.

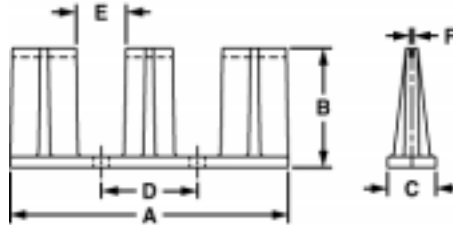


## Fanning Strip Holders

### Low Holder (FSH40-X)



### High Holder (FSHH-X)

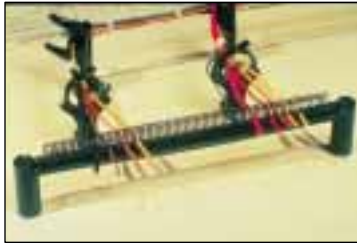


Used in conjunction with RER.75-S6, BR.75-E6 (BR.5-E6) and CPH.75-S8. Ideal for use with PAT cable tie tool.

Part Number†	Dimensions Inches (mm)						Material & Color	Mounting Method	Std. Pkg. Qty.
	A	B	C	D	E	F			
FS156-C	12.0 (304.8)	.31 (7.9)	.04 (1.0)	.12 (3.0)	.156 (4.0)	.06 (1.5)	Nylon	Fanning Strip Holder	100
FSH40-X	6.0 (152.4)	.62 (15.7)	.56 (14.2)	1.50 (38.1)	.75 (19.0)	.04 (1.0)	ABS	#8 (M4) Screw	10
FSHH-X	3.22 (82)	1.38 (35.1)	.57 (14.5)	1.12 (28.4)	.53 (13.5)	.04 (1.0)	ABS		10

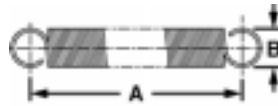
# PANDUIT® Harness Board Accessories

## Spring Wire Breakout System



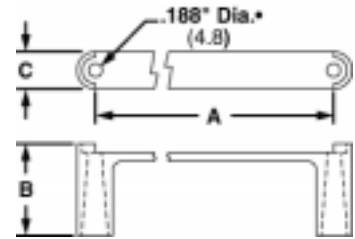
Consists of harness board springs and spring holders to hold wire ends taut. When harness is removed from board, wires simply pull out from spring.

### PBSC Spring Wire Breakout



### 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.

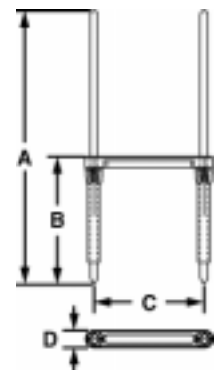


Part Number†	Dimensions Inches (mm)			Material & Color	Mounting Method	Packaging*	
	A	B	C			Std. Pkg. Qty.	Std. Ctn. Qty.
PBSC1-X	1.00 (25.4)	.44 (11.2)	—	.035" (.9) Thick Steel	Used with SHH1 Spring Holder	10	100
PBSC3-X	3.00 (76.2)		—		—	10	100
PBSC6-X	6.00 (152.4)		—		Used with SHH3 Spring Holder	10	100
PBSC12-X	12.00 (304.8)		—		—	10	—
SHH1-S8-X	1.90 (48.3)	1.30 (33)	.50 (12.7)	Nylon	Two #8 (M4) 2" (50.8) Screws used with PBSC1	10	—
SHH3-S8-X	7.00 (177.8)		Two #8 (M4) 2" (50.8) Screws used with PBSC6		10	—	

## Harness Board Platform



Elevates the bundle of wires from the harness board to allow the installation of Abrasion Protection products and the use of **PANDUIT** automatic cable tie tools. The platform is used as a template to mark the location of the nails. The nails are driven into the board with a hammer. The plastic sleeve slides over each nail.



Part Number†	Max. Bundle Dia. In (mm)	Dimensions Inches (mm)				Material & Method	Mounting Method	Packaging*	
		A	B	C	D			Std. Pkg. Qty.	Std. Ctn. Qty.
HB1P4-X	1.00 (25.4)	5.00 (127.0)	4.00 (101.6)	1.32 (33.5)	.375 (9.5)	Nylon platform, vinyl spacer, tempered steel nails	Driven into harness board	10	100
HB1P6-X		7.00 (203.2)	6.00 (152.4)	—				10	100
HB2P4-X	2.00 (51)	6.00 (152.4)	4.00 (101.6)	2.32 (58.9)				10	100
HB2P6-X		8.00 (203.2)	6.00 (152.4)	—				10	100

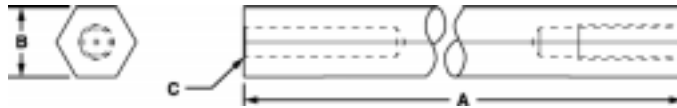
\*Order the Number of Pieces Required in Multiples of Packaging Quantities.  
†Part Numbers listed are for Standard Materials in Standard Package Quantity.

# PANDUIT® Harness Board Accessories

## Harness Board Standoff Post



Used to hold a push mount accessory or 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 Inches (mm)					Material & Color	Mounting Method	Std. Pkg. Qty.	Std. Ctn. Qty.
	A	B	C	D	E				
HB2SP19-X	2.00 (51)	.50 (12.7)	.203 (5.1)	—	—	Aluminum	(M6) Screw	10	100
HB4SP19-X	4.00 (101.6)			—	—				
HB6SP19-X	6.00 (152.4)			—	—				
HB2SP25-X	2.00 (51)		.295 (7.5)	—	—				
HB4SP25-X	4.00 (101.6)			—	—				
HB6SP25-X	6.00 (152.4)			—	—				

## Tie Harness Anchor Universal Fixture



THAUF4-X is used to hold a tie harness anchor at a specified location on a harness board. Unique step design accepts all 3 mount hole sizes found in **PANDUIT** tie harness anchors. When assembly is complete, the harness and attached anchor are removed from the harness board post. Can also be used with the harness board universal adapter (HBUA-X).

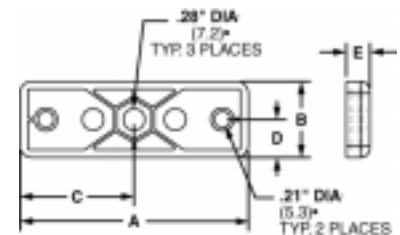


THAUF4-X	4.00 (101.6)	5.00 (127)	.50 (12.7)	—	—	Aluminum	(M6) Screw	10	100
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## Harness Board Universal Adapter



Used with Harness Board Standoff Post when you cannot drill mounting holes in your harness board. A bolt is inserted from the back side of the Adapter and then is turned right side up. The Adapter is now ready to be secured to your harness board by using self tapping screws.

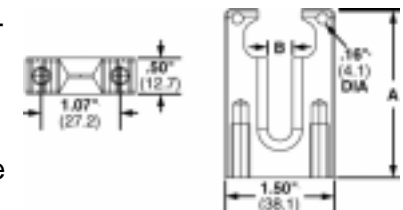


HBUA-X	3.00 (77)	1.00 (25.4)	1.50 (38.1)	.50 (12.7)	.31 (7.9)	Black Nylon	Wood Screw	10	100
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## Tie Harness Mount Fixture



Used to hold and support the THM1SC Harness Mount ([See Page 95](#)). The mount is elevated from the harness board so that a cable tie can be installed by Panduit's automatic cable tie installation tools. The mount is pushed into the top of the fixture prior to assembly and pulled out of the fixture when the harness is complete.



THMF2-X	2.08 (52.8)	.28 (7.1)	See Drawing	Aluminum	(M6) Screw	10	50
THMF4-X	4.08 (103.6)	.34 (8.7)				10	50
THMF6-X	6.08 (154.4)	.34 (8.7)				10	50

# PANDUIT® Wiring Accessories Bulk Packaging

## 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. Contact distributor for pricing of bulk package parts.

Standard Part No.	Bulk Part No.
<b>A</b>	
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-A-C14	ABM100-A-D14
ABM100-A-C15	ABM100-A-D15
ABM100-AT-C0	ABM100-AT-D0
ABM2S-A-C	ABM2S-A-D
ABM2S-A-C14	ABM2S-A-D14
ABM2S-A-C15	ABM2S-A-D15
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
ACC38-A-C	ACC38-A-M
ACC38-A-C20	ACC38-A-M20
ACC62-A-C	ACC62-A-M
ACC62-A-C20	ACC62-A-D20
ADCC31-AT-C10	ADCC31-AT-D10
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
<b>B</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
<b>C</b>	
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

Standard Part No.	Bulk Part No.
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	CBP100-M
CCS12-S8-C	CCS12-S8-M
CCS19-S8-C	CCS19-S8-M
CCS25-S8-C	CCS25-S8-M
CCS25-S10-C	CCS25-S10-M
CCS31-S8-C	CCS31-S8-M
CCS38-S8-C	CCS38-S8-M
CCS44-S8-C	CCS44-S8-M
CCS50-S8-C	CCS50-S8-M
CCH12-S10-C	CCH12-S10-M
CCH19-S10-C	CCH19-S10-M
CCH25-S10-C	CCH25-S10-M
CCH31-S10-C	CCH31-S10-M
CCH38-S10-C	CCH38-S10-M
CCH44-S10-C	CCH44-S10-M
CCH50-S10-C	CCH50-S10-M
CCH56-S10-C	CCH56-S10-M
CCH62-S10-C	CCH62-S10-M
CCH69-S10-C	CH69-S10-M
CCH75-S10-C	CCH75-S10-M
CCH81-S10-C	CCH81-S10-M
CCH87-S10-C	CCH87-S10-M
CCH100-S10-C	CCH100-S10-M
<b>E</b>	
EMA-X	STD. ONLY
EMS-A-C	EMS-A-D
EMS-A-C0	EMS-A-D0
EMSK3-1-X0	EMSK3-1-C0
EMSK12-4-12-X0	EMSK12-4-12-C0
<b>F</b>	
FCBI1-A-C20	FCBI1-A-M20
FCBI1-S10-C20	FCBI1-S10-M20
FCBI2-A-C20	FCBI2-A-M20
FCBI2-S10-C20	FCBI2-S10-M20
FCBI3-A-C20	FCBI3-A-M20
FCBI3-S10-C20	FCBI3-S10-M20
FCC5-A-C8	FCC5-A-D8
FCC-A-C8	FCC-A-D8
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
FCPI1-C20	FCPI1-M20
FCPI2-C20	FCPI2-M20
FCPI3-C20	FCPI3-M20
<b>H</b>	
HCMP06B12-C20	HCMP06B12-M20

Standard Part No.	Bulk Part No.
HCMP06C12-C20	HCMP06C12-M20
HWS2819-C	HWS2819-M
HSC-25-L	HSC-25-D
HSC-25-L100	HSC-25-D100
HCME06A12-C20	HCME06A12-M20
HCMP06B12-C20	HCMP06B12-M20
HCMP06C12-C20	HCMP06C12-M20
HWS2819-C	HWS2819-M
HSC-25-L	HSC-25-D
HSC-25-L100	HSC-25-D100
<b>K</b>	
KIMS-H366-C2	KIMS-H366-M2
KIMS-H430-C6	KIMS-H430-M6
KIMS-H500-C4	KIMS-H500-M4
<b>L</b>	
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
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
<b>M</b>	
MBMS-S10-C	MBM-S10-M
MMS8	STD. ONLY
MP150-C	MP150-M
THRU	THRU
MP350-C	MP350-M
MP150-C0	MP150-M0
THRU	THRU
MP350-C0	MP350-M0
BULK ONLY	MP150R
	THRU
	MP250R

# 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. Contact distributor for pricing of bulk package parts.

Standard Part No.	Bulk Part No.
MPMS19-C0	MPMS19-M0
MPMH38-L0	MPMH38-D0
MPMWH32-L0	MPMWH32-D0
<b>P</b>	
PBMS-H25-C	PBMS-H25-M
PBMS-H25-C14	PBMS-H25-M14
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
<b>R</b>	
RAFCB1-S6-C20	RAFCB1-S6-M20
RAFCB2-S6-C20	RAFCB2-S6-M20
RAFCB3-S6-C20	RAFCB3-S6-M20
<b>S</b>	
SE12P-TR0	SE12P-MR0
SE25P-TR0	SE25P-MR0
SE38P-TR0	SE38P-MR0
SE50P-CR0	SE50P-DR0
SE74P-CR0	SE75P-DR0
SE125P-LR0	SE125P-TR0
SE150P-LR0	SE150P-TR0
SE12PFR-TR0	SE12PFR-MR0
SE25PFR-TR0	SE25PFR-MR0
SE38PFR-TR0	SE38PFR-MR0
SE50PFR-CR0	SE50PFR-DR0
SE75PFR-CR0	SE75PFR-DR0
SE125PFR-LR0	SE125PFR-TR0
SE150PFR-LR0	SE150PFR-TR0
SICH25-C	SICH25-M
SICH38-C	SICH38-M
SICH50-C	SICH50-M
SICH75-C	SICH75-M
SICH100-C	SICH100-M
SMS-A-C	SMS-A-D
SMS-A-C14	SMS-A-D14
SMS-A-C15	SMS-A-D15
<b>T</b>	
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

Standard Part No.	Bulk Part No.
THAUF4-X	THAUF4-C
THM1SC-C	THM1SC-M
THM1SC-C30	THM1SC-M30
THMSC35-C30	THMSC35-M30
THMSC35-C39	THMSC35-M39
THMSC35F-C30	THMSC35F-M30
THMSC35F-C39	THMSC35F-M39
THMSC60-C30	THMSC60-M30
THMSC60-C39	THMSC60-M39
THMSC60F-C30	THMSC60F-M30
THMSC60F-C39	THMSC60F-M39
THMSC85-C30	THMSC85-M30
THMSC85-C39	THMSC85-M39
THMSP20-C	THMSP20-M
THMSP20-C30	THMSP20-M30
THMSP20F-C	THMSP20F-M
THMSP20F-C30	THMSP20F-M30
THMSP25-C	THMSP25-M
THMSP25-C30	THMSP25-M30
THMSP25F-C	THMSP25F-M
THMSP25F-C30	THMSP25F-M30
THMEH-S8-Q0	TMEH-S8-C0
TMEH-S10-Q0	TMEH-S10-C0
TMEH-S25-Q0	TMEH-S25-C0
TMSTLHS6-C0	TMSTLHS6-M0
TMSTHS13-C0	TMSTLH13-D0
TMSTHS16-C0	TMSTHS16-D0
TMSTHS19-C0	TMSTHS16-D0
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
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
TPM16-C	TPM16-M
TPM5-16-C	TPM5-16-M
TPM10-16-C	TPM10-16-M
TPM15-16-C	TPM15-16-M
TPM20-16-C	TPM20-16-M
TPM25-16-C	TPM25-16-M
TPM30-16-C	TPM30-16-M
TWR-C	TWR-M
TWR-C0	TWR-M0
T12F-C	T12F-D
T12F-C0	T12F-D0
T12FR-C	T12FR-D

Standard Part No.	Bulk Part No.
T12N-C	T12N-D
T12N-C0	T12N-D0
T12R-C	T12R-D
T25F-C	T25F-M
T25F-C0	T25F-M0
T25FR-C	T25FR-M
T25FR-C20	T25FR-M20
T25N-C	T25N-M
T25R-C	T25R-M
T25R-C20	T25R-M20
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-C3	T50F-TL3
T50F-C4	T50F-TL4
T50FR-C	T50FR-TL
T50N-C	T50N-TL
T50N-C0	T50N-TL0
T50R-C	T50R-TL
T62F-C	T62F-TL
T62FR-C	T62FR-TL
T62N-C	T62N-TL
T62R-C	T62R-TL
T75F-C	T75F-T
T75F-C0	T75F-T0
T75FR-C	T75FR-T
T75N-C	T75N-T
T75R-C	T75R-T
<b>V</b>	
VCC25-A-C	ACC25-A-M
VCC25-A-C0	VCC25-A-M0
VCC50-A-C	VCC50-A-D
VCS-25-L	VCS-25-D
VCS-25-L100	VCS-25-D100
VWS4218-C	VWS4218-M
VWS4238-C	VWS4238-M
VWS4274-C	VWS4275-M
VWS42105-C	VWS42105-M
<b>W</b>	
WS25-25-C	WS25-25-M
WS25-50-C	WS25-50-M
WS25-75-C	WS25-75-M
WS35-25-C	WS35-25-M
WS35-50-C	WS35-50-M
WS35-75-C	WS35-75-M
WS50-25-C	WS50-25-M
WS50-50-C	WS50-50-M
WS50-75-C	WS50-75-M
WS75-25-C	WS75-25-M
WS75-50-C	WS75-50-M
WS75-75-C	WS75-75-M

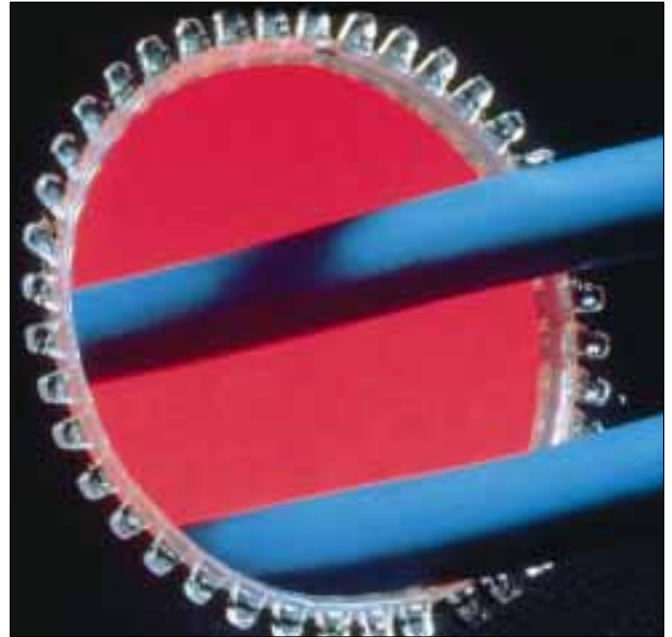


## **Abrasion Protection Products**

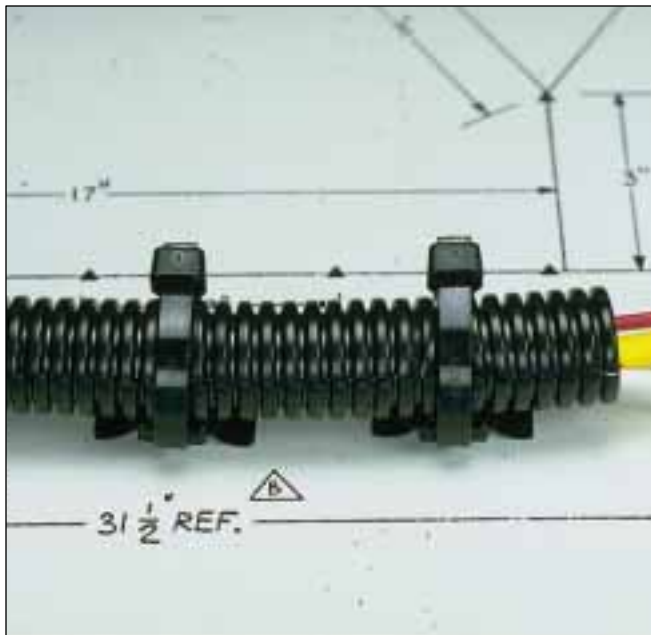
**Spiral Wrapping**



**Grommet Edging**



**Corrugated Loom Tubing**



**Braided Sleeving**



**Abrasion Protection for Wire  
and Cable Insulation as well as  
Hydraulic or Pneumatic Tubing**

# PANDUIT® Spiral Wrapping

## Spiral Wrapping



### Features and Benefits



- Largest variety of colors, materials and sizes in the industry
- Available in seven different materials and twelve different colors
- Colors conform to Communications Wiring Standards
- 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
- Color code wire bundles
- Reusable
- Tool supplied in each package

### Spiral Wrapping Suggested Applications

Use **PANDUIT®** Spiral Wrapping in office and industrial environments for the following applications:



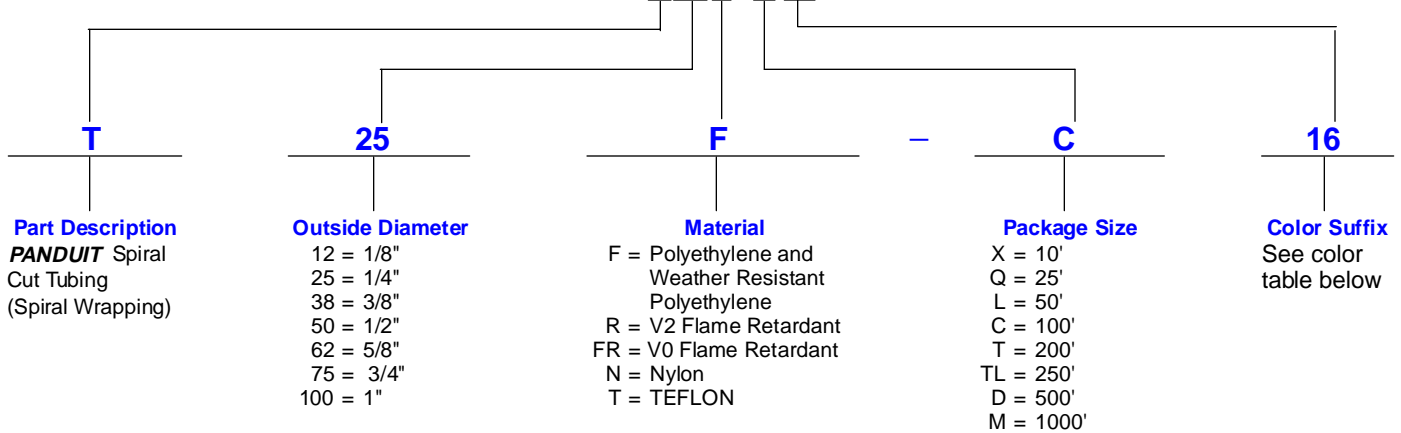
- Organize wires for communication and computer equipment where access to the wires is required
- In OEM applications for protecting tubing and harnesses
- Abrasion protection for control panel wiring
- Personal computer and printer wire organization
- Protect glass tubes from abrasion and breakage
- Kink-proofing for all kinds of tubing . . . ideal for laboratories
- Eliminates lacing cord and tie offs
- Use orange spiral wrapping for protecting and identifying fiber optic cables

# PANDUIT® Spiral Wrapping

## The Functional Part Number System Makes Ordering Easy

### Spiral Wrap Part Number Description

#### Example T25F-C16



### Color Availability

Color	Color Suffix*	Material						
		Polyethylene	Weather Resistant Polyethylene	Flame Retardant Polyethylene V2 Rating	Flame Retardant Polyethylene V0 Rating	Nylon	Weather Resistant Nylon	TEFLON‡
Natural (Clear)	Leave Blank	X		Natural Color is White	Natural Color is White	X		X
Weather Resistant Black	0		X				X	
Brown	1	X						
Red	2	X						
Orange	3	X						
Yellow	4	X						
Green	5	X						
Blue	6	X						
Purple	7	X						
Gray	8	X						
White	10	X						
Pink	16	X						
Black	20			X	X			

Blank = Not applicable

\*Colors are stocked for 1/4" & 1/2" Polyethylene. Other sizes available, consult the factory.

### UL94V-0 Polyethylene Spiral Wrapping and Grommet Edging

Panduit offers 94V-0 Polyethylene Spiral wrapping as a low cost, non-flammable alternative to TEFLON spiral wrapping. Use 94V-0 TEFLON where higher temperature applications are required.

#### UL94V-0 Polyethylene Spiral Wrapping and Grommet Edging:

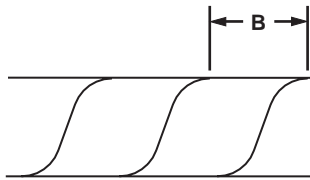
- Pass UL requirements for 94V-0 flame rating of product for all wall thickness and outside diameters of spiral wrapping and all panel thicknesses of grommet edging.
- Pass UL requirements for 94V-0 flame rating for 1/32" thick material. This distinction is important due to the thin wall of smaller diameter spiral wrapping.

Refer to these UL 94V-0 rated polyethylene materials, easily identified on [pages 133](#) (spiral wrapping) and [136](#) (grommet edging) with suffix "FR" before part number packaging information.

‡TEFLON or equivalent fluorocarbon PTFE material is used. TEFLON is a registered trademark of E.I. DuPont Co.

# PANDUIT® Spiral Wrapping

## Ordering Information - Spiral Wrapping



Part Number	Material	Color	A In. (mm)	B In. (mm)	T In. (mm)	Bundle Size In. (mm)	Feet Per Pkg.	Std. Pkg.*
<b>T12F-C</b>	Polyethylene	Natural	0.125" (3.2)	0.218" (5.5)	0.030" (.76)	1/16" (1.6) - 1/2" (12.7)	100'	1 Roll
<b>T19F-C</b>		Natural	0.188" (4.8)	0.250" (6.4)	0.035" (0.89)	1/8" (3.2) - 1" (25.4)	100'	
<b>T25F-X</b>		Natural	0.25" (6.4)	0.375" (9.5)	0.04" (1.02)	3/16" (4.8) - 2" (50.8)	10'	
<b>T25F-X0</b>		Black	0.25" (6.4)	0.375" (9.5)	0.04" (1.02)	3/16" (4.8) - 2" (50.8)	10'	
<b>T25F-C</b>		Natural	0.25" (6.4)	0.375" (9.5)	0.04" (1.02)	3/16" (4.8) - 2" (50.8)	100'	
<b>T25F-C1</b>		Brown	0.25" (6.4)	0.375" (9.5)	0.04" (1.02)	3/16" (4.8) - 2" (50.8)	100'	
<b>T25F-C10</b>		White	0.25" (6.4)	0.375" (9.5)	0.04" (1.02)	3/16" (4.8) - 2" (50.8)	100'	
<b>T25F-C16</b>		Pink	0.25" (6.4)	0.375" (9.5)	0.04" (1.02)	3/16" (4.8) - 2" (50.8)	100'	
<b>T25F-C2</b>		Red	0.25" (6.4)	0.375" (9.5)	0.04" (1.02)	3/16" (4.8) - 2" (50.8)	100'	
<b>T25F-C3</b>		Orange	0.25" (6.4)	0.375" (9.5)	0.04" (1.02)	3/16" (4.8) - 2" (50.8)	100'	
<b>T25F-C4</b>		Yellow	0.25" (6.4)	0.375" (9.5)	0.04" (1.02)	3/16" (4.8) - 2" (50.8)	100'	
<b>T25F-C5</b>		Green	0.25" (6.4)	0.375" (9.5)	0.04" (1.02)	3/16" (4.8) - 2" (50.8)	100'	
<b>T25F-C6</b>		Blue	0.25" (6.4)	0.375" (9.5)	0.04" (1.02)	3/16" (4.8) - 2" (50.8)	100'	
<b>T25F-C7</b>		Purple	0.25" (6.4)	0.375" (9.5)	0.04" (1.02)	3/16" (4.8) - 2" (50.8)	100'	
<b>T25F-C8</b>		Gray	0.25" (6.4)	0.375" (9.5)	0.04" (1.02)	3/16" (4.8) - 2" (50.8)	100'	
<b>T38F-C</b>		Natural	0.375" (9.5)	0.437" (11.1)	0.055" (1.4)	5/16" (7.9) - 3" (76.2)	100'	
<b>T50F-X</b>		Natural	0.5" (12.7)	0.5" (12.7)	0.06" (1.5)	3/8" (9.5) - 4" (101.6)	10'	
<b>T50F-X0</b>		Black	0.5" (12.7)	0.5" (12.7)	0.06" (1.5)	3/8" (9.5) - 4" (101.6)	10'	
<b>T50F-C</b>		Natural	0.5" (12.7)	0.5" (12.7)	0.06" (1.5)	3/8" (9.5) - 4" (101.6)	100'	
<b>T50F-C10</b>		White	0.5" (12.7)	0.5" (12.7)	0.06" (1.5)	3/8" (9.5) - 4" (101.6)	100'	
<b>T50F-C16</b>		Pink	0.5" (12.7)	0.5" (12.7)	0.06" (1.5)	3/8" (9.5) - 4" (101.6)	100'	
<b>T50F-C2</b>		Red	0.5" (12.7)	0.5" (12.7)	0.06" (1.5)	3/8" (9.5) - 4" (101.6)	100'	
<b>T50F-C3</b>		Orange	0.5" (12.7)	0.5" (12.7)	0.06" (1.5)	3/8" (9.5) - 4" (101.6)	100'	
<b>T50F-C4</b>		Yellow	0.5" (12.7)	0.5" (12.7)	0.06" (1.5)	3/8" (9.5) - 4" (101.6)	100'	
<b>T50F-C5</b>		Green	0.5" (12.7)	0.5" (12.7)	0.06" (1.5)	3/8" (9.5) - 4" (101.6)	100'	
<b>T50F-C6</b>		Blue	0.5" (12.7)	0.5" (12.7)	0.06" (1.5)	3/8" (9.5) - 4" (101.6)	100'	
<b>T50F-C7</b>		Purple	0.5" (12.7)	0.5" (12.7)	0.06" (1.5)	3/8" (9.5) - 4" (101.6)	100'	
<b>T50F-C8</b>		Gray	0.5" (12.7)	0.5" (12.7)	0.06" (1.5)	3/8" (9.5) - 4" (101.6)	100'	
<b>T62F-C</b>		Natural	0.625" (15.9)	0.625" (15.9)	0.062" (1.57)	1/2" (12.7) - 4 1/2" (114.3)	100'	
<b>T75F-C</b>		Natural	0.75" (19.1)	0.875" (22.2)	0.065" (1.65)	5/8" (15.9) - 5" (127)	100'	
<b>T100F-C</b>		Natural	1" (25.4)	1.125" (28.6)	0.07" (1.78)	7/8" (22.2) - 6" (152.4)	100'	
<b>T12F-C0</b>	Weather Resistant Polyethylene	Black	0.125" (3.2)	0.218" (5.5)	0.030" (.76)	1/16" (1.6) - 1/2" (12.7)	100'	1 Roll
<b>T19F-C0</b>		Black	0.188" (4.8)	0.250" (6.4)	0.035" (0.89)	1/8" (3.2) - 1" (25.4)	100'	
<b>T25F-C0</b>		Black	0.25" (6.4)	0.375" (9.5)	0.04" (1.02)	3/16" (4.8) - 2" (50.8)	100'	
<b>T38F-C0</b>		Black	0.375" (9.5)	0.437" (11.1)	0.055" (1.4)	5/16" (7.9) - 3" (76.2)	100'	
<b>T50F-C0</b>		Black	0.5" (12.7)	0.5" (12.7)	0.06" (1.5)	3/8" (9.5) - 4" (101.6)	100'	
<b>T62F-C0</b>		Black	0.625" (15.9)	0.625" (15.9)	0.062" (1.57)	1/2" (12.7) - 4 1/2" (114.3)	100'	
<b>T75F-C0</b>		Black	0.75" (19.1)	0.875" (22.2)	0.065" (1.65)	5/8" (15.9) - 5" (127)	100'	
<b>T100F-C0</b>		Black	1" (25.4)	1.125" (28.6)	0.07" (1.78)	7/8" (22.2) - 6" (152.4)	100'	

\*Order the number of rolls required.  
Most commonly used parts appear in **BOLD**.



# PANDUIT® Spiral Wrapping

## Ordering Information - Spiral Wrapping



U.L. Recognized (Except Flame Retardant Polyethylene (U.L. V0))



Part Number	Material	Color	A In. (mm)	B In. (mm)	T In. (mm)	Bundle Size In. (mm)	Feet Per Pkg.	Std. Pkg.*
<b>T12R-C</b>	Flame Retardant Polyethylene	White	0.125" (3.2)	0.218" (5.5)	0.030" (0.76)	1/16" (1.6) - 1/2" (12.7)	100'	1 Roll
<b>T19R-C</b>		White	0.188" (4.8)	0.250" (6.4)	0.035" (0.89)	1/8" (3.2) - 1" (25.4)	100'	
<b>T25R-C</b>		White	0.250" (6.4)	0.375" (9.5)	0.040" (1.02)	3/16" (4.8) - 2" (50.8)	100'	
<b>T25R-C20</b>		Black	0.250" (6.4)	0.375" (9.5)	0.040" (1.02)	3/16" (4.8) - 2" (50.8)	100'	
<b>T38R-C</b>		White	0.375" (9.5)	0.437" (11.1)	0.055" (1.40)	5/16" (7.9) - 3" (76.2)	100'	
<b>T50R-C</b>		White	0.500" (12.7)	0.500" (12.7)	0.060" (1.50)	3/8" (9.5) - 4" (101.6)	100'	
<b>T62R-C</b>		White	0.625" (15.9)	0.625" (15.9)	0.062" (1.57)	1/2" (12.7) - 4 1/2" (114.3)	100'	
<b>T75R-C</b>		White	0.750" (19.1)	0.875" (22.2)	0.065" (1.65)	5/8" (15.9) - 5" (127)	100'	
<b>T100R-C</b>		White	1.000" (25.4)	1.125" (28.6)	0.070" (1.78)	7/8" (22.2) - 6" (152.4)	100'	
<b>T12FR--C</b>	Flame Retardant Polyethylene (U.L. V0)	White	0.125" (3.2)	0.218" (5.5)	0.030" (0.76)	1/16" (1.6) - 1/2" (12.7)	100'	1 Roll
<b>T12FR-C20</b>		Black	0.125" (3.2)	0.218" (5.5)	0.030" (0.76)	1/16" (1.6) - 1/2" (12.7)	100'	
<b>T19FR-C</b>		White	0.188" (4.8)	0.250" (6.4)	0.032" (0.81)	1/8" (3.2) - 1" (25.4)	100'	
<b>T19FR-C20</b>		Black	0.188" (4.8)	0.250" (6.4)	0.032" (0.81)	1/8" (3.2) - 1" (25.4)	100'	
<b>T25FR-C</b>		White	0.250" (6.4)	0.375" (9.5)	0.040" (1.02)	3/16" (4.8) - 2" (50.8)	100'	
<b>T25FR-C20</b>		Black	0.250" (6.4)	0.375" (9.5)	0.040" (1.02)	3/16" (4.8) - 2" (50.8)	100'	
<b>T38FR-C</b>		White	0.375" (9.5)	0.437" (11.1)	0.055" (1.40)	5/16" (7.9) - 3" (76.2)	100'	
<b>T38FR-C20</b>		Black	0.375" (9.5)	0.437" (11.1)	0.055" (1.40)	5/16" (7.9) - 3" (76.2)	100'	
<b>T50FR-C</b>		White	0.500" (12.7)	0.500" (12.7)	0.060" (1.50)	3/8" (9.5) - 4" (101.6)	100'	
<b>T50FR-C20</b>		Black	0.500" (12.7)	0.500" (12.7)	0.060" (1.50)	3/8" (9.5) - 4" (101.6)	100'	
<b>T62FR-C</b>		White	0.625" (15.9)	0.625" (15.9)	0.062" (1.57)	1/2" (12.7) - 4 1/2" (114.3)	100'	
<b>T62FR-C20</b>		Black	0.625" (15.9)	0.625" (15.9)	0.062" (1.57)	1/2" (12.7) - 4 1/2" (114.3)	100'	
<b>T75FR-C</b>		White	0.750" (19.1)	0.875" (22.2)	0.065" (1.65)	5/8" (15.9) - 5" (127)	100'	
<b>T75FR-C20</b>		Black	0.750" (19.1)	0.875" (22.2)	0.065" (1.65)	5/8" (15.9) - 5" (127)	100'	
<b>T100FR-C</b>		White	1.000" (25.4)	1.125" (28.6)	0.070" (1.78)	7/8" (22.2) - 6" (152.4)	100'	
<b>T100FR-C20</b>		Black	1.000" (25.4)	1.125" (28.6)	0.070" (1.78)	7/8" (22.2) - 6" (152.4)	100'	
<b>T12N-C</b>		Nylon (Black Nylon is Weather Resistant)	Natural	0.125" (3.2)	0.218" (5.5)	0.015" (0.40)	1/16" (1.6) - 1/2" (12.7)	
<b>T12N-C0</b>	Black		0.125" (3.2)	0.218" (5.5)	0.015" (0.40)	1/16" (1.6) - 1/2" (12.7)	100'	
<b>T19N-C</b>	Natural		0.188" (4.8)	0.250" (6.4)	0.020" (0.51)	1/8" (3.2) - 1" (25.4)	100'	
<b>T19N-C0</b>	Black		0.188" (4.8)	0.250" (6.4)	0.020" (0.51)	1/8" (3.2) - 1" (25.4)	100'	
<b>T25N-C</b>	Natural		0.25" (6.4)	0.375" (9.5)	0.040" (1.02)	3/16" (4.8) - 2" (50.8)	100'	
<b>T25N-C0</b>	Black		0.25" (6.4)	0.375" (9.5)	0.040" (1.02)	3/16" (4.8) - 2" (50.8)	100'	
<b>T38N-C</b>	Natural		0.375" (9.5)	0.437" (11.1)	0.055" (1.40)	5/16" (7.9) - 3" (76.2)	100'	
<b>T38N-C0</b>	Black		0.375" (9.5)	0.437" (11.1)	0.055" (1.40)	5/16" (7.9) - 3" (76.2)	100'	
<b>T50N-C</b>	Natural		0.5" (12.7)	0.500" (12.7)	0.060" (1.50)	3/8" (9.5) - 4" (101.6)	100'	
<b>T50N-C0</b>	Black		0.5" (12.7)	0.500" (12.7)	0.060" (1.50)	3/8" (9.5) - 4" (101.6)	100'	
<b>T62N-C</b>	Natural		0.625" (15.9)	0.625" (15.9)	0.062" (1.57)	1/2" (12.7) - 4 1/2" (114.3)	100'	
<b>T62N-C0</b>	Black		0.625" (15.9)	0.625" (15.9)	0.062" (1.57)	1/2" (12.7) - 4 1/2" (114.3)	100'	
<b>T75N-C</b>	Natural		0.75" (19.1)	0.875" (22.2)	0.065" (1.65)	5/8" (15.9) - 5" (127)	100'	
<b>T75N-C0</b>	Black		0.75" (19.1)	0.875" (22.2)	0.065" (1.65)	5/8" (15.9) - 5" (127)	100'	
<b>T100N-C</b>	Natural		1.000" (25.4)	1.125" (28.6)	0.070" (1.78)	7/8" (22.2) - 6" (152.4)	100'	
<b>T100N-C0</b>	Black		1.000" (25.4)	1.125" (28.6)	0.070" (1.78)	7/8" (22.2) - 6" (152.4)	100'	
<b>T12T-C</b>	TEFLON‡		Natural	0.125" (3.2)	0.218" (5.5)	0.020" (0.50)	1/16" (1.6) - 1/2" (12.7)	100'
<b>T19T-C</b>		Natural	0.188" (4.8)	0.250" (6.4)	0.030" (0.76)	1/8" (3.2) - 1" (25.4)	100'	
<b>T25T-L</b>		Natural	0.250" (6.4)	0.375" (9.5)	0.030" (0.76)	3/16" (4.8) - 2" (50.8)	50'	
<b>T38T-L</b>		Natural	0.375" (9.5)	0.437" (11.1)	0.030" (0.76)	5/16" (7.9) - 3" (76.2)	50'	
<b>T50T-Q</b>		Natural	0.500" (12.7)	0.500" (12.7)	0.030" (0.76)	3/8" (9.5) - 4" (101.6)	25'	
<b>T62T-Q</b>		Natural	0.625" (15.9)	0.625" (15.9)	0.030" (0.76)	1/2" (12.7) - 4 1/2" (114.3)	25'	
<b>T75T-X</b>		Natural	0.750" (19.1)	0.875" (22.2)	0.030" (0.76)	5/8" (15.9) - 5" (127)	10'	
<b>T100T-X</b>		Natural	1.000" (25.4)	1.125" (28.6)	0.040" (1.01)	7/8" (22.2) - 6" (152.4)	10'	

\*Order the number of rolls required.

‡TEFLON or equivalent fluorocarbon PTFE material is used. TEFLON is a registered trademark of E. I. DuPont Co.

Most commonly used parts appear in **BOLD**.

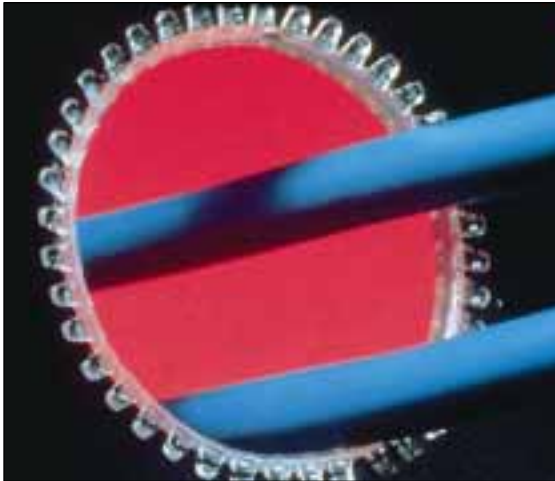
# PANDUIT® Grommet Edging

## Grommet Edging Features and Benefits



- Use low cost polyethylene UL94V-0 flame retardant grommet edging for those areas where flammability is a concern.
- Nylon grommet edging strips conform to the Military Standard MS21266

## Grommet Edging Suggested Applications

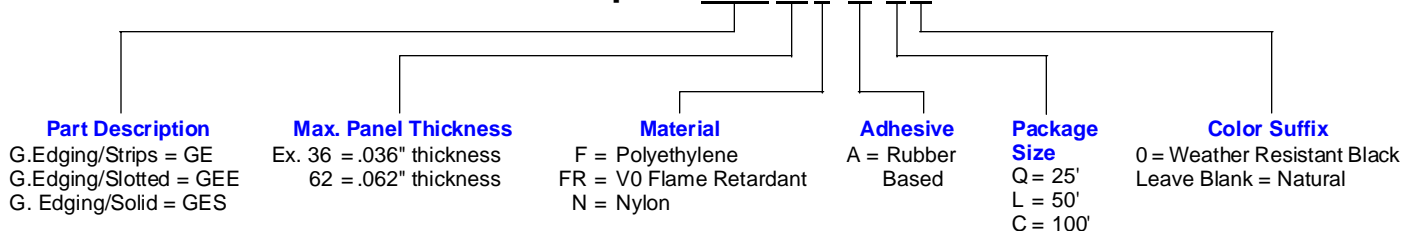


- Use the slotted wall in irregularly shaped and round panel holes.
- Use the solid wall product on straight edges

## The Functional Part Number System Makes Ordering Easy

### Grommet Edging Part Number Description

Example: **GEE36F-A-C0**





# PANDUIT® Grommet Edging

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## PANDUIT Grommet Edging

- Protects and insulates wires and cables from chafing against sharp edges

Choose from four materials:



### 1) Nylon

- Self extinguishing
- For indoor use up to 149°F (65°C)



### 2) Polyethylene

- General purpose material for indoor use up to 122°F (50°C).
- Style GEE and GES provided in .030" (0.8) thick material, making them highly flexible
- Available with slotted or solid wall construction



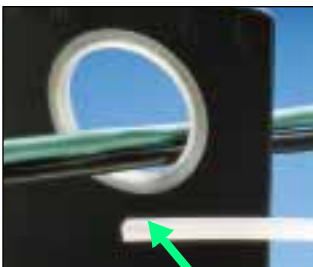
### 3) Weather Resistant Polyethylene

- For outdoor use up to 122°F (50°C)
- Excellent resistance to acid rain and ultraviolet light



### 4) Flame Retardant Polyethylene

- UL94V-0 rated material
- Will not support a flame
- Available with slotted or solid wall construction



### 5) 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

Adhesive Lined

# PANDUIT® Grommet Edging

## Ordering Information—Grommet Edging

PANDUIT® Part Number	Material	Color	Panel Thickness In. (mm)	Dimensions—In. (mm)		Feet Per Pkg.*	Std. Pkg.
				A	B		
<b>GEE36F-C</b>	Continuous Polyethylene (Slotted Wall)	Natural	.026" (.7) - .036" (.9)	.106" (2.7)	.117" (3.0)	100'	1 Roll
<b>GEE36F-C0</b>		Black	.026" (.7) - .036" (.9)	.106" (2.7)	.117" (3.0)	100'	
<b>GEE62F-C</b>		Natural	.036" (.9) - .062" (1.6)	.131" (3.3)	.160" (4.1)	100'	
<b>GEE62F-C0</b>		Black	.036" (.9) - .062" (1.6)	.131" (3.3)	.160" (4.1)	100'	
<b>GEE99F-C</b>		Natural	.062" (1.6) - .099" (2.5)	.169" (4.3)	.186" (4.7)	100'	
<b>GEE99F-C0</b>		Black	.062" (1.6) - .099" (2.5)	.169" (4.3)	.186" (4.7)	100'	
<b>GEE144F-C</b>	Continuous Polyethylene (Solid Wall)	Natural	.099" (2.5) - .144" (3.7)	.213" (5.4)	.222" (5.6)	100'	1 Roll
<b>GEE144F-C0</b>		Black	.099" (2.5) - .144" (3.7)	.213" (5.4)	.222" (5.6)	100'	
<b>GES36F-C</b>		Natural	.026" (.7) - .036" (.9)	.106" (2.7)	.117" (3.0)	100'	
<b>GES36F-C0</b>		Black	.026" (.7) - .036" (.9)	.106" (2.7)	.177" (3.0)	100'	
<b>GES62F-C</b>		Natural	.036" (.9) - .062" (1.6)	.131" (3.3)	.160" (4.1)	100'	
<b>GES62F-C0</b>		Black	.036" (.9) - .062" (1.6)	.131" (3.3)	.160" (4.1)	100'	
<b>GES99F-C</b>	Continuous Polyethylene With ADHESIVE (Slotted Wall)	Natural	.062" (1.6) - .099" (2.5)	.169" (4.3)	.186" (4.7)	100'	1 Roll
<b>GES99F-C0</b>		Black	.062" (1.6) - .099" (2.5)	.169" (4.3)	.186" (4.7)	100'	
<b>GES144F-C</b>		Natural	.099" (2.5) - .144" (3.7)	.213" (5.4)	.222" (5.6)	100'	
<b>GES144F-C0</b>		Black	.099" (2.5) - .144" (3.7)	.213" (5.4)	.222" (5.6)	100'	
<b>GES62F-A-C</b>		Natural	.026" (.7) - .062" (1.6)	.131" (3.3)	.160" (4.1)	100'	
<b>GES62F-A-C0</b>		Black	.026" (.7) - .062" (1.6)	.131" (3.3)	.160" (4.1)	100'	
<b>GES99F-A-C</b>	Continuous Polyethylene With ADHESIVE (Solid Wall)	Natural	.062" (1.6) - .099" (2.5)	.169" (4.3)	.186" (4.7)	100'	1 Roll
<b>GES99F-A-C0</b>		Black	.062" (1.6) - .099" (2.5)	.169" (4.3)	.186" (4.7)	100'	
<b>GES144F-A-C</b>		Natural	.099" (2.5) - .144" (3.7)	.213" (5.4)	.222" (5.6)	100'	
<b>GES144F-A-C0</b>		Black	.099" (2.5) - .144" (3.7)	.213" (5.4)	.222" (5.6)	100'	
<b>GES62F-A-C</b>		Natural	.026" (.7) - .062" (1.6)	.131" (3.3)	.160" (4.1)	100'	
<b>GES62F-A-C0</b>		Black	.026" (.7) - .062" (1.6)	.131" (3.3)	.160" (4.1)	100'	
<b>GEE36FR-C</b>	UL V0 Flame Retardant Polyethylene Slotted Wall	Natural	.026" (.7) - .036" (.9)	.106" (2.7)	.117" (3.0)	100'	1 Roll
<b>GEE62FR-C</b>		Natural	.036" (.9) - .062" (1.6)	.131" (3.3)	.160" (4.1)	100'	
<b>GEE99FR-C</b>		Natural	.062" (1.6) - .099" (2.5)	.169" (4.3)	.186" (4.7)	100'	
<b>GEE144FR-C</b>		Natural	.099" (2.5) - .144" (3.7)	.213" (5.4)	.222" (5.6)	100'	
<b>GES36FR-C</b>	UL V0 Flame Retardant Polyethylene Solid Wall	Natural	.026" (.7) - .036" (.9)	.106" (2.7)	.117" (3.0)	100'	1 Roll
<b>GES62FR-C</b>		Natural	.036" (.9) - .062" (1.6)	.131" (3.3)	.160" (4.1)	100'	
<b>GES99FR-C</b>		Natural	.062" (1.6) - .099" (2.5)	.169" (4.3)	.186" (4.7)	100'	
<b>GES144FR-C</b>		Natural	.099" (2.5) - .144" (3.7)	.213" (5.4)	.222" (5.6)	100'	
<b>GE52-C</b>	Military Standard Nylon Strips **	Natural	.015" (.4) - .052" (1.3)	.150" (3.8)	.155" (3.9)	100	Strips
<b>GE52-C69†</b>		Natural	.015" (.4) - .052" (1.3)	.150" (3.8)	.155" (3.9)	100	
<b>GE85-C</b>		Natural	.052" (1.3) - .085" (2.2)	.175" (4.5)	.155" (3.9)	100	
<b>GE85-C69†</b>		Natural	.052" (1.3) - .085" (2.2)	.175" (4.5)	.155" (3.9)	100	
<b>GE128-C</b>		Natural	.085" (2.2) - .128" (3.3)	.220" (5.6)	.155" (3.9)	100	
<b>GE128-C69†</b>		Natural	.085" (2.2) - .128" (3.3)	.220" (5.6)	.155" (3.9)	100	
<b>GE192-L</b>		Natural	.128" (3.3) - .192" (4.9)	.325" (8.3)	.230" (5.8)	50	
<b>GE192-L69†</b>		Natural	.128" (3.3) - .192" (4.9)	.325" (8.3)	.230" (5.8)	50	
<b>GE255-L</b>		Natural	.192" (4.9) - .255" (6.5)	.385" (9.8)	.240" (6.1)	50	
<b>GE318-L</b>		Natural	.255" (6.5) - .318" (8.1)	.455" (11.3)	.255" (6.5)	50	
<b>GE380-Q</b>	Natural	.318" (8.1) - .380" (9.7)	.515" (13.1)	.255" (6.5)	25		
<b>GE510-Q</b>	Natural	.380" (9.7) - .510" (13.0)	.640" (16.3)	.255" (6.5)	25		
<b>GEE47N-C</b>	Continuous Nylon Slotted Wall	Natural	.020" (.5) - .047" (1.2)	.130" (3.3)	.140" (3.5)	100'	1 Roll
<b>GEE55N-C</b>		Natural	.047" (1.2) - .055" (1.4)	.133" (3.4)	.140" (3.5)	100'	
<b>GEE71N-C</b>		Natural	.055" (1.4) - .071" (1.8)	.150" (3.8)	.140" (3.5)	100'	
<b>GEE98N-C</b>		Natural	.071" (1.8) - .098" (2.5)	.180" (4.6)	.140" (3.5)	100'	
<b>GEE134N-C</b>		Natural	.098" (2.5) - .134" (3.4)	.210" (5.3)	.140" (3.5)	100'	

\*Order the number of rolls required or the number of strips required for style GE Grommet Edging.  
 \*\*Military Standard Nylon Strips (GE Series), order the number of pieces required in multiples of Std. Pkg. Qty.  
 †This material is not listed under Military Standard MS21266.  
 Most commonly used parts appear in **BOLD**.

Use this table as a guide to determine PANDUIT Grommet Edging Sizes. The common sheet metal dimensions listed below are based on the "Manufacturers Standard Gauge for Steel."

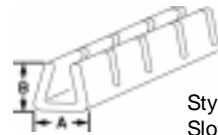
Grommet Edging Military Cross-Reference	
<b>GE52-C</b>	MS21266-1N
<b>GE85-C</b>	MS21266-2N
<b>GE128-C</b>	MS21266-3N
<b>GE192-L</b>	MS21266-4N
<b>GE255-L</b>	MS21266-5N
<b>GE318-L</b>	MS21266-6N
<b>GE380-Q</b>	MS21266-7N
<b>GE510-Q</b>	MS21266-8N

Gauge	Manufacturer Standard Gauge for Steel (In.)
5	0.2092
6	0.1943
7	0.1793
8	0.1644
9	0.1495
10	0.1345
11	0.1196
12	0.1046
13	0.0897

Gauge	Manufacturer Standard Gauge for Steel (In.)
14	0.0747
15	0.0673
16	0.0598
17	0.0538
18	0.0478
19	0.0418
20	0.0359
21	0.0329
22	0.0299

Gauge	Manufacturer Standard Gauge for Steel (In.)
23	0.0269
24	0.0239
25	0.0209
26	0.0179
27	0.0164
28	0.0149
29	0.0135
30	0.0120

### Polyethylene



Style GEE Slotted Wall

Continuous (100 Ft.) Rolls

### Polyethylene



Style GES Solid Wall

Continuous (100 Ft.) Rolls

### Adhesive Lined Polyethylene



Style GEE-A Slotted Wall

Continuous (100 Ft.) Rolls

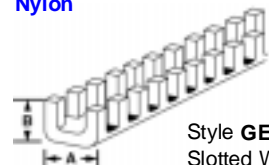
### Adhesive Lined Polyethylene



Style GES-A Solid Wall

Continuous (100 Ft.) Rolls

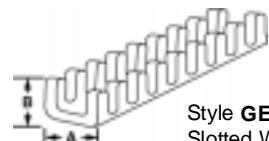
### Nylon



Style GE Slotted Wall

12 3/4" strips

### Nylon



Style GEE Slotted Wall

Continuous (100 Ft.) Rolls

# PANDUIT® Corrugated Loom Tubing

## Corrugated Loom Tubing

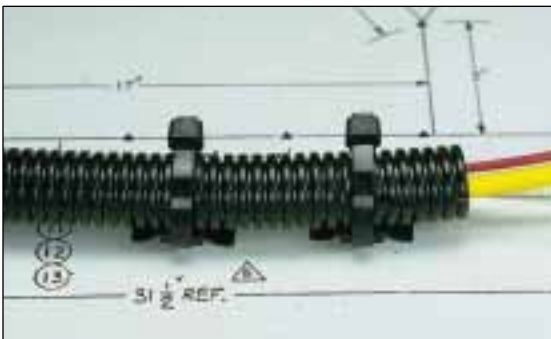


- **PANDUIT** Corrugated Loom Tubing is offered for applications where spiral wrap or braided expandable sleeving may be difficult to install or where they do not offer the amount of protection required.
- Available in Nylon or Polyethylene, this product features a lengthwise slit which makes it easy to install onto a bundle of wires or a pre-assembled harness assembly.



### Features and Benefits

- Protects and reduces the risk of damage to wiring
- Crush, impact and abrasion resistant
- Slit wall design for ease of installation
- Available in easy to handle 100' lengths
- Available in black and orange polyethylene and black heat stabilized nylon
- Hold in place with push type cable ties, adhesive or push type mounts



### Corrugated Loom Tubing Suggested Applications

- Bundle wires in control panels
- Contain and organize loose and bundled wiring harnesses
- Route wires in automotive, truck, trailer, bus, conversion van, emergency service and recreational vehicle applications
- Protect wires in off road/mobile equipment
- Use in mining equipment
- Marine applications for protecting wires on boats and ships



### Cutting Tool

- The ease of cutting **PANDUIT** Corrugated Loom Tubing further reduces your total installed cost.
- Slices through for clean, burr-free edges
- Rugged, ratchet action cuts, leaving a smooth edge

Part #	Description	Std. Pkg. Qty.
SRT	Used with corrugated loom tubing and <b>PANDUIT</b> Type P, L, C, TM and U Surface Raceway	1

Order the number of tools required.

# PANDUIT® Corrugated Loom Tubing

## Corrugated Loom Tubing



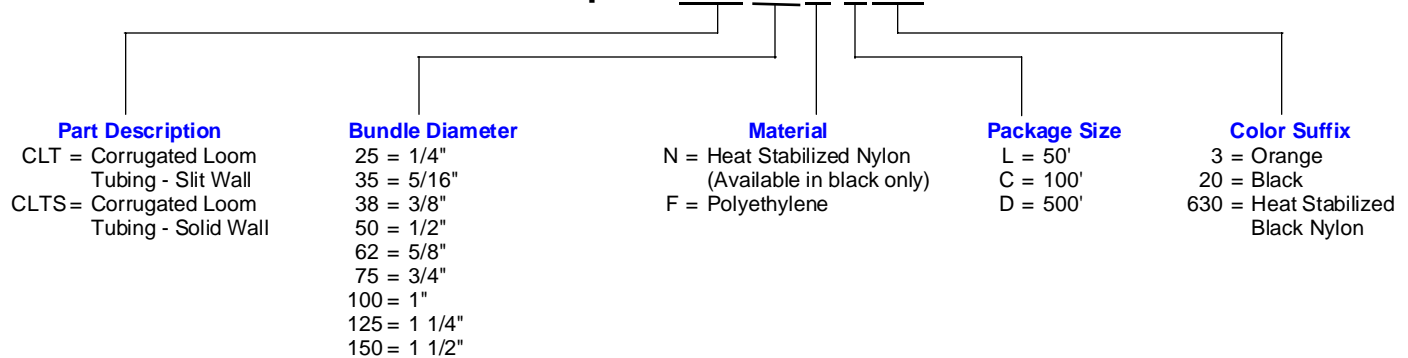
**PANDUIT** Corrugated Loom Tubing is for applications where spiral wrap or braided expandable sleeving may be difficult to install or where they do not offer the amount of protection required.

Corrugated Loom Tubing is available in Polyethylene or Heat Stabilized Nylon.

## The Functional Part Number System Makes Ordering Easy

### Corrugated Loom Tubing Part Number Description

Example: **CLT100N-C630**



### Ordering Information—Corrugated Loom Tubing

PANDUIT® Part Number		Material	Color	Inside Diameter	Outside Diameter	Feet Per Pkg.*	Pkg. Qty.
Slit	Solid						
CLT25F-C20	CLTS25F-C	Polyethylene	Black	.265" (6.7)	.390" (9.9)	100'	1 Roll
CLT35F-C20	CLTS35F-C		Black	.350" (8.9)	.500" (12.7)	100'	
CLT38F-C20	CLTS38F-C		Black	.414" (10.5)	.556" (14.1)	100'	
CLT50F-C20	CLTS50F-C		Black	.505" (12.8)	.670" (17.0)	100'	
CLT62F-C20	CLTS62F-C		Black	.665" (16.9)	.830" (21.1)	100'	
CLT75F-C20	CLTS75F-C		Black	.760" (19.3)	.935" (23.7)	100'	
CLT100F-C20	CLTS100F-C		Black	.915" (23.2)	1.090" (27.7)	100'	
CLT125F-L20	CLTS125F-L		Black	1.290" (32.8)	1.500" (38.1)	50'	
CLT150F-D20	CLTS150F-D		Black	1.550" (39.1)	1.860" (47.2)	500'	
CLT25F-C3	CLTS25F-C3		Polyethylene	Orange	.265" (6.7)	.390" (9.9)	
CLT35F-C3	CLTS35F-C3	Orange		.350" (8.9)	.500" (12.7)	100'	
CLT38F-C3	CLTS38F-C3	Orange		.414" (10.5)	.556" (14.1)	100'	
CLT50F-C3	CLTS50F-C3	Orange		.505" (12.8)	.670" (17.0)	100'	
CLT62F-C3	CLTS62F-C3	Orange		.665" (16.9)	.830" (21.1)	100'	
CLT75F-C3	CLTS75F-C3	Orange		.760" (19.3)	.935" (23.7)	100'	
CLT100F-C3	CLTS100F-C3	Orange		.915" (23.2)	1.090" (27.7)	100'	
CLT125F-L3	CLTS125F-L3	Orange		1.290" (32.8)	1.500" (38.1)	50'	
CLT150F-D3	CLTS150F-D3	Orange		1.550" (39.1)	1.860" (47.2)	500'	
CLT25N-C630	CLTS25N-C	Heat Stabilized Black Nylon		Black	.265" (6.7)	.390" (9.9)	100'
CLT35N-C630	CLTS35N-C		Black	.350" (8.9)	.500" (12.7)	100'	
CLT38N-C630	CLTS38N-C		Black	.414" (10.5)	.556" (14.1)	100'	
CLT50N-C630	CLTS50N-C		Black	.505" (12.8)	.670" (17.0)	100'	
CLT62N-C630	CLTS62N-C		Black	.665" (16.9)	.830" (21.1)	100'	
CLT75N-C630	CLTS75N-C		Black	.760" (19.3)	.935" (23.7)	100'	
CLT100N-C630	CLTS100N-C		Black	.915" (23.2)	1.090" (27.7)	100'	
CLT125N-L630	CLTS125N-L		Black	1.290" (32.8)	1.500" (38.1)	50'	
CLT150N-D630	CLTS150N-D		Black	1.550" (39.1)	1.860" (47.2)	500'	

\*Order the number of rolls required.  
Contact factory for additional sizes, materials, colors, and bulk packaging.

# PANDUIT® Braided Expandable Sleeving

## 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°F (125°C)
- Allows for use with irregular shapes
- Stock colors: Black, gray, white and clear
- Sleeving cutting methods available. Contact factory for details



U. L. Recognized  
FILE: E116868

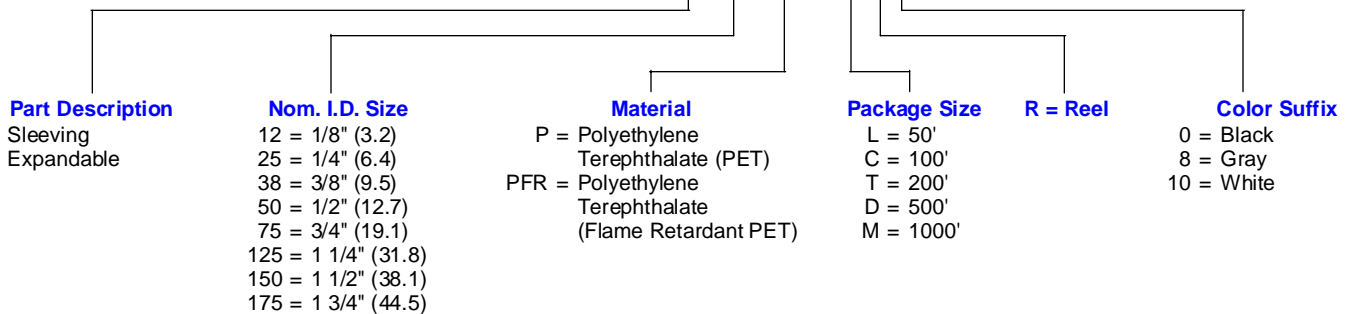


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## The Functional Part Number System Makes Ordering Easy

### Braided Expandable Sleeving Part Number Description

Example: **SE25PFR-MR0**



### Ordering Information Braided Expandable Sleeving

Part Number Black	Part Number Gray	Part Number White	Nominal I.D. Inches (mm)	Nominal Diameter Range Inches (mm)	Standard Package Quantity*	Standard Carton Quantity
<b>SE12P-TRO</b> <b>SE12P-MR0</b>	SE12P-TR8 SE12P-MR8	— SE12P-MR10	.125" (3.2)	.094" to .250" (2.4) to (6.4)	1 Reel 200' (61.0M) 1 Reel 1000' (304.8M)	4 Reels 2 Reels
<b>SE25P-TRO</b> <b>SE25P-MR0</b>	SE25P-TR8 SE25P-MR8	— SE25P-MR10	.250" (6.4)	.125" to .375" (3.2) to (9.5)	1 Reel 200' (61.0M) 1 Reel 1000' (304.8M)	4 Reels 2 Reels
<b>SE38P-TRO</b> <b>SE38P-MR0</b>	SE38P-TR8 SE38P-MR8	— SE38P-MR10	.375" (9.5)	.188" to .562" (4.7) to (14.3)	1 Reel 200' (61.0M) 1 Reel 1000' (304.8M)	4 Reels 2 Reels
<b>SE50P-CRO</b> <b>SE50P-DRO</b>	SE50P-CR8 SE50P-DR8	— SE50P-DR10	.500" (12.7)	.250" to .750" (6.4) to (19.1)	1 Reel 100' (30.5M) 1 Reel 500' (152.4M)	4 Reels 2 Reels
<b>SE75P-CRO</b> <b>SE75P-DRO</b>	SE75P-CR8 SE75P-DR8	— SE75P-DR10	.750" (19.1)	.500" to 1.25" (12.7) to (31.8)	1 Reel 100' (30.5M) 1 Reel 500' (152.4M)	4 Reels 2 Reels
<b>SE125P-LRO</b> <b>SE125P-TRO</b>	SE125P-LR8 SE125P-TR8	— SE125P-TR10	1.25" (31.8)	.750" to 1.50" (19.1) to (38.1)	1 Reel 50' (15.2M) 1 Reel 200' (61.0M)	4 Reels 2 Reels
<b>SE150P-LRO</b> <b>SE150P-TRO</b>	SE150P-LR8 SE150P-TR8	— SE150P-TR10	1.50" (38.1)	1.00" to 2.25" (25.4) to (57.2)	1 Reel 50' (15.2M) 1 Reel 200' (61.0M)	4 Reels 2 Reels
— <b>SE175P-TRO</b>	— —	— —	1.75" (44.5)	1.25" to 2.75" (31.8) to (69.8)	— 1 Reel 200' (61.0M)	— 2 Reels

\*Order number of reels required in multiples of Std. Ctn. increments.  
Most commonly used parts appear in **BOLD**.



# PANDUIT® Flame Retardant Braided Expandable Sleeving

## Braided Expandable Sleeving—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°F (125°C)
- Allows for use with irregular shapes
- Self extinguishing, meets UL VW-1
- Provided in black or gray with white tracer, or in white with black tracer to identify flame retardant material



U.L. Recognized  
FILE: E116868



CERTIFIED

### Ordering Information Flame Retardant Braided Expandable

Part Number Black	Part Number Gray	Part Number White	Nominal I.D. Inches (mm)	Nominal Diameter Range Inches (mm)	Standard Package Quantity*	Standard Carton Quantity
<b>SE12PFR-TR0</b> <b>SE12PFR-MR0</b>	SE12PFR-TR8 SE12PFR-MR8	— <b>SE12PFR-MR10</b>	.125" (3.2)	.094" to .250" (2.4) to (6.4)	1 Reel 200' (61.0M) 1 Reel 1000' (304.8M)	4 Reels 2 Reels
<b>SE25PFR-TR0</b> <b>SE25PFR-MR0</b>	SE25PFR-TR8 SE25PFR-MR8	— <b>SE25PFR-MR10</b>	.250" (6.4)	.125" to .375" (3.2) to (9.5)	1 Reel 200' (61.0M) 1 Reel 1000' (304.8M)	4 Reels 2 Reels
<b>SE38PFR-TR0</b> <b>SE38PFR-MR0</b>	SE38PFR-TR8 SE38PFR-MR8	— <b>E38PFR-MR10</b>	.375" (9.5)	.188" to .562" (4.7) to (14.3)	1 Reel 200' (61.0M) 1 Reel 1000' (304.8M)	4 Reels 2 Reels
<b>SE50PFR-CR0</b> <b>SE50PFR-DR0</b>	SE50PFR-CR8 SE50PFR-DR8	— <b>SE50PFR-DR10</b>	.500" (12.7)	.250" to .750" (6.4) to (19.1)	1 Reel 100' (30.5M) 1 Reel 500' (152.4M)	4 Reels 2 Reels
<b>SE75PFR-CR0</b> <b>SE75PFR-DR0</b>	SE75PFR-CR8 SE75PFR-DR8	— <b>SE75PFR-DR10</b>	.750" (19.1)	.500" to 1.25" (12.7) to (31.8)	1 Reel 100' (30.5M) 1 Reel 500' (152.4M)	4 Reels 2 Reels
<b>SE125PFR-LR0</b> <b>SE125PFR-TR0</b>	SE125PFR-LR8 SE125PFR-TR8	— <b>SE125PFR-TR10</b>	1.25" (31.8)	.750" to 1.50" (19.1) to (38.1)	1 Reel 50' (15.2M) 1 Reel 200' (61.0M)	4 Reels 2 Reels
<b>SE150PFR-LR0</b> <b>SE150PFR-TR0</b>	SE150PFR-LR8 SE150PFR-TR8	— <b>SE150PFR-TR10</b>	1.50" (38.1)	1.00" to 2.25" (25.4) to (57.2)	1 Reel 50' (15.2M) 1 Reel 200' (61.0M)	4 Reels 2 Reels
<b>SE175PFR-TR0</b>	—	—	1.75" (44.5)	1.25" to 2.75" (31.8) to (69.8)	— 1 Reel 200' (61.0M)	— 2 Reels

\*Order number of reels required. Heavy Duty Braided Expandable Sleeving and Acrylic Coated Fiberglass Insulation Sleeving are available. Most commonly used parts appear in **BOLD**. See **PAN-SHRINK™** Heat Shrink and Abrasion Protection Products Catalog, SA101N48D.

### Sleeving Cutter/ End Sealer Blades



### Bench Mount Cutter/ End Sealer Available Directly from Manufacturer

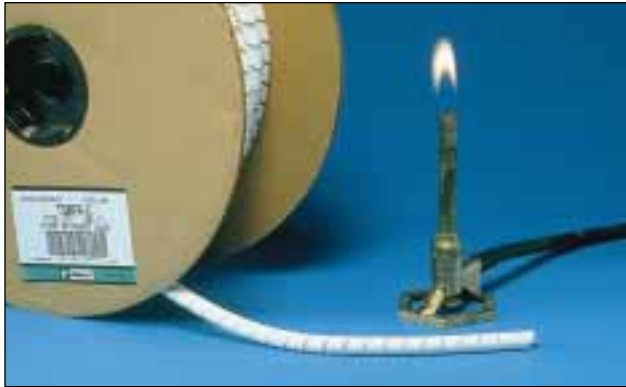


Pearson Industries P.O.  
Box 36  
Prattville, AL 36067  
(334) 365-5416

Part Number	Description	Pkg. Qty.
<b>HKBS</b>	For Dual Straight Shank Soldering Guns with .500" Spacing  Typical Guns: WELLER Straight Shank Model 8200; WEN Model 199 or 100* (*Replace Tip Holding Screws with (2) Screws included)	1

Order the number of packages required.

## Abrasion Protection Products Flammability Tests and Classifications



- A number of test procedures has 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

Samples of a material, with dimensions 5" by 1/2" 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°F, 70°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 Classified 94V-0

Materials classified 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" (305mm) 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 Classified 94V-1

Materials classified 94V-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" (305mm) 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.

(Continued on following page)

## **Abrasion Protection Products Flammability Tests and Classifications (cont.)**

### **Materials Classified 94V-2**

Materials classified 94V-2 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.
- Be permitted to have specimens which drip flaming particles which burn only briefly some of which ignite the dry absorbent surgical cotton located 12" (305mm) 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 Classified UL-94 HB**

- Specimens shall have a maximum burn rate of 1.5 in/min over 3 inches of a thickness of 0.120" to 0.5".
- Specimens shall have a maximum burn rate of 2.5 in/min over 3 inches for a thickness less than 0.120".

## **Material Descriptions**

### **Natural Polyethylene**

Our lowest cost material for indoor use up to 122°F. Natural is available in all sizes. Colors are available in 1/4" and 1/2".

### **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.

### **Flame Retardant Polyethylene UL94-V2 Rating**

This material is self extinguishing and passes the UL94 flame retardant test with a V2 rating (see above).

### **Flame Retardant Polyethylene UL94-V0 Rating**

This material is self extinguishing and passes the UL94 flame retardant test with a V0 rating (see previous page).

### **Nylon**

Our Nylon is strong, durable, self-extinguishing material for indoor use up to 149°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.

### **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.

### **TEFLON‡**

This material is a non-flammable, fluorocarbon resin material. Suitable for use in any application (including nuclear containment). It is rated up to 356°F. Color: Natural with a bluish cast.

### **Polyethylene Terephthalate (PET)**

This material is a thermoplastic polyester material designed for indoor applications. It is rated for use up to 257°F. Colors: Black, White and Gray.

### **Flame Retardant 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°F and is provided in black with white tracer (to identify the flame retardant material).

### **Natural Polyethylene**

Our lowest cost material is for continuous use at temperatures -40°F (-40°C) to 176°F (80C).

### **Nylon**

Nylon is a strong, durable, high abrasion resistant material for continuous use at temperatures

‡Teflon or equivalent fluorocarbon PTFE is used. Teflon is the registered trademark of E. I. DuPont.

# PANDUIT® Abrasion Protection Products Technical Data

## Abrasion Protection Products Technical Data

See Previous Page for Material Descriptions	Ratings and Approvals			Physical Properties				Chemical Resistance				
	Temperatures			Abrasion Resistance (Lower number is better)	Specific Gravity (D792)	Minimum Tensile @ 23°C (psi)	Water Absorption (Max. 24 hrs.)	Organic Solvents	Alkalies	Acids	Petro-Chemicals	
	UL Index	Flam-mability (UL94)	Melting									
S P I R A L  W R A P P I N G  & G O M E T E D I N G	Natural Polyethylene	-40°F (-40°C) to 122°F (50°C)	HB	239°F (115°C)	22 mg	.91 - .93	1400 (D638)	.01%	Resistant below 140°F (60°C) except to chlorinated solvents	Resistant	Resistant except to oxidizing acids	Some Discoloration
	Weather Resistant Polyethylene	-40°F (-40°C) to 122°F (50°C)	HB	239°F (115°C)	20 mg	.93 - 1.09	2000 (D638)	.03%	Resistant below 140°F (60°C) except to chlorinated solvents	Resistant	Resistant except to oxidizing acids	No Discoloration
	Flame Retardant Polyethylene - UL94-V2 Rating	-40°F (-40°C) to 122°F (50°C)	V-2	239°F (115°C)	27 mg	1.00 - 1.30	1400 (D638)	.02%	Resistant below 140°F (60°C) except to chlorinated solvents	Resistant	Resistant except to oxidizing acids	Some Discoloration
	Flame Retardant Polyethylene - UL94-V0 Rating	-40°F (-40°C) to 140°F (60°C)	V-0	270°F (132°C)	22 mg	1.38	1200	.02%	Resistant below 140°F (60°C) except to chlorinated solvents	Resistant	Resistant except to oxidizing acids	Some Discoloration
	Nylon	-40°F (-40°C) to 149°F (65°C)	V-2	491°F (255°C)	7 mg	1.03 - 1.15	12,400 (D638)	1.5%	Resistant except to phenols and formic acid	Resistant	Resistant to most weak acids	No Discoloration
	Weather Resistant Nylon	-40°F (-40°C) to 149°F (65°C)	V-2	491°F (255°C)	7 mg	1.03 - 1.15	12,400 (D638)	1.5%	Resistant except to phenols and formic acid	Resistant	Resistant to most weak acids	No Discoloration
	TEFLON†	-40°F (-40°C) to 365°F (180°C)	V-0	520°F (271°C)	7 mg	2.10 - 2.20	2500 (D638)	.01%	Resistant		Resistant except to fluorine and some halogens	No Discoloration
S L E E V I N G	Polyethylene Terephthalate (PET)	-94°F (-70°C) to 257°F (125°C)	HB	500°F (260°C)	Contact Factory	1.31	100,000 (D638)	.08%	Not Recommended		Resistant	No Discoloration
	Flame Ret. Polyethylene Terephthalate (PET)	-94°F (-70°C) to 257°F (125°C)	U.L. 224: VW-1	445°F (230°C)	Contact Factory	1.39	37,500 (D638)	.08%	Not Recommended		Resistant	No Discoloration
C L T	Natural Polyethylene	N/A	HB	Contact Factory	Contact Factory	.926 - .940	1529 (D638)	Contact Factory	Excellent	Excellent	Excellent	Good
	Nylon	N/A	HB	437°F (225°C)	Contact Factory	1.06 - 1.16	10,000 (D638)	Contact Factory	Excellent	Good	Fair	Good

† NOTE: Typical operating temperature ranges are extended based on end use application and specific environmental tests.

‡Teflon or equivalent fluorocarbon PTFE is used. Teflon is the registered trademark of E. I. DuPont.

# PANDUIT® Cable Ties/Wiring Accessories Table of Contents

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ABM4H-S6-T	82	BEC38-A-L	106	BT3S-X0	12
ABMM-A-C	81	BEC38-A-L20	106	BT4I-C	23
ABMM-AT-C	81	BEC38-AT-L0	106	BT4I-C0	24
ABMM-AT-C0	81	BEC62-A-L	106	BT4LH-L	23
ABMM-D	82	BEC62-A-L20	106	BT4LH-L0	24
ABMS-A-C	83	BEC62-AT-L0	106	BT4LH-L39	25
ABMS-AT-C	83	BEC75-A-L	106	BT4LH-X	12
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