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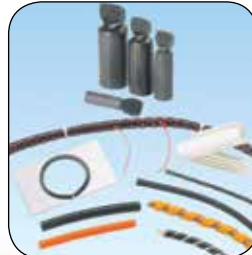
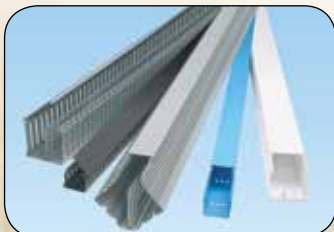
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This catalog contains a large selection of our portfolio of solutions. For more information or access to our full range of products, please refer to Panduit Full line catalog - www.panduit.com.

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System Overview

Panduit® is a world-class provider of engineered, flexible, end-to-end electrical infrastructure solutions that provide businesses with the ability to keep pace with a connected world. Our robust partner ecosystem, global staff, unmatched service and support make Panduit a valuable and trusted partner.

- **Proven QUALITY performance:** Time and again, customers trust Panduit for reliable cabling and infrastructure products
- **Subject matter EXPERTISE:** Our engineers know the standards and specifications of your industry so you don't have to; the products they develop meet or exceed requirements to ensure you get the best and most reliable results possible
- **Customer-driven INNOVATION:** At Panduit, we research, prototype, test, and develop practical solutions for the real electrical infrastructure problems you face; by choosing Panduit, you get a partner with the available products you need now, and the know-how to solve future challenges before they disrupt your system

To help assure optimum quality, Panduit products are designed and manufactured to meet applicable environmental, safety, market industry and customer standards including ROHS, UL, CSA, CE, ISO.

If you are missing information from this catalog, please refer to the Full line catalog posted on panduit.com.

Applications and Market Solutions

B1.
Cable Ties
and Tools

B2.
Cable
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Harsh Environments

When vibration, radiation, weathering, corrosion, and temperature extremes are a factor, you need a high quality, reliable, and durable solution. Panduit® provides everything necessary to bundle, route, protect, terminate, and identify electrical and network cable in indoor and outdoor extreme conditions. These innovative solutions meet the needs of the most demanding harsh and industrial environment applications to deliver long life, increased productivity, and improved worker safety.

Transportation

Panduit develops high-quality products to meet the requirements of the transportation market while providing the lowest installed cost. Performance, reliability, efficiency, regulatory approvals and availability are critical issues to success. Panduit solutions are designed to hold up under vibration, shock, and exposure to nature's elements while preventing corrosion, reducing weight, complying with market standards and speeding installation.



Applications and Market Solutions

Wire Harness

Intense global competition and increasing operational expenses are pressuring contract manufacturers and original equipment manufacturers to speed production and control costs without compromising quality, system availability, and reliability. Wire harness solutions from Panduit® offer the broadest range of options for the most demanding requirements and applications. Through innovative product systems and services, we help you increase your productivity, reduce your installation costs, and improve reliability.

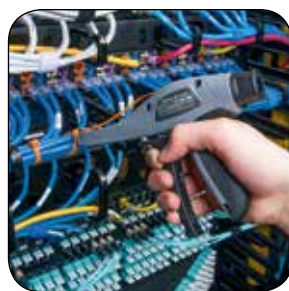


Control Cabinet/ Panel Builders

Panel shops, engineering firms, machine builders, and system integrators are dealing with the convergence of high/low voltage and network cabling within control panels. This trend creates challenges in meeting production schedules, controlling costs, while maintaining quality, system availability, and reliability. Control panel solutions from Panduit offer the broadest range of options for the most demanding requirements and applications. Through innovative product systems and services we help you save valuable panel space, mitigate disruptions due to electrical/mechanical noise, enable and future proof your network, and improve reliability.



Cable Ties



Panduit® offers the most complete selection of cable tie styles, sizes, materials and colors to meet our customers' needs. Panduit cable ties bundle, mount, and identify in countless indoor, outdoor, and harsh environment applications. Panduit cable ties, wiring accessories, and installation tools allow our customers to achieve the lowest total installed cost of managing wire and cable.



- Panduit continues to provide innovative new cable tie designs to meet our customers' application challenges
- Panduit cable ties and wiring accessories can be used in a variety of applications and environments, providing the optimal wire management solution
- Panduit offers a large selection of ergonomic cable tie installation tools – all with consistent, and reliable performance

Panduit leads the industry in the breadth and depth of available cable tie designs created from customer feedback on their application requirements. As with all Panduit products, quality in design and production along with customer service excellence are assured. All Panduit cable ties (with the exception of TEFZEL and HALAR) are Halogen-Free per IEC Specification 61249-2-21.

If you are missing information from this catalog, please refer to the Full line catalog posted on panduit.com.

Cable Tie Selection Chart

Follow this step-by-step process to find the cable ties that best suit your application:

Cable Tie Function

- 1) Select the main function of the cable tie you need:
 Bundle = Standard Cable Ties
 Re-use = Nylon Releasable Ties*
 Identify = Marker and Flag Ties
 Mount = Clamp Ties, Push Mount Ties, and Stud Mount Ties

Material Properties

- 2) Determine the appropriate material for your application:
 Mechanical
 Chemical
 Thermal

Cable Tie Family

- 3) Select the cable tie family that meets your overall needs

Cable Tie Function		Bundle, Re-use, Identify, Mount	Bundle, Re-use, Identify, Mount	Bundle, Re-use, Identify, Mount	Bundle, Re-use, Identify, Mount	Bundle, Re-use, Identify, Mount	Bundle, Re-use, Identify, Mount	Bundle, Re-use, Identify, Mount
Material	Test Method	Nylon 6.6	Weather Resistant Nylon 6.6	Impact Modified Weather Resistant Nylon 6.6	Heat Stabilized Nylon 6.6	Heat Stabilized Nylon 6.6	Heat Stabilized Weather Resistant Nylon 6.6	Heat Stabilized Weather Resistant Nylon 6.6
Color	—	Natural	Black	Black	Black	Black	Natural	Black
Part Number Suffix (Material Designation)	—	No Suffix	0	0	30	39	300	300
Tensile @ Yield @ 73°F (psi)	ISO 527	12,000	12,000	9,700	12,000	12,000	12,000	12,000
Water Absorption (24 Hours)	ASTM D570	1.2%	1.2%	1.2%	1.2%	1.2%	1.2%	1.2%
Radiation Resistance (Rads)	—	1 x 10 ⁵	1 x 10 ⁵	1 x 10 ⁵	1 x 10 ⁵	1 x 10 ⁵	1 x 10 ⁵	1 x 10 ⁵
Weathering Life Expectancy (Years)/ UV Resistance	—	1 – 2	7 – 9	7 – 9	4 – 5	1 – 2	7 – 9	7 – 9
Impact Resistance	—	○	○	○	○	○	○	○
Salts	—	●	●	●	●	●	●	●
Hydrocarbons (Gas, Oil, Lubricants)	—	●	●	●	●	●	●	●
Chlorinated Hydrocarbons	—	○	○	○	○	○	○	○
Acids	—	●	●	●	●	●	●	●
Bases	—	○	○	○	○	○	○	○
Acid Rain	—	○	○	○	○	○	○	○
Continuous Use Temperature Range	UL 746B	-76°F - 185°F -60°C - 85°C	-76°F - 185°F -60°C - 85°C	-76°F - 185°F -60°C - 85°C	-76°F - 239°F -60°C - 115°C	-76°F - 239°F -60°C - 115°C	-76°F - 239°F -60°C - 115°C	-76°F - 239°F -60°C - 115°C
Minimum Installation Temperature	UL 62275	-4°F or +32°F -20°C or 0°C (Note 1)	-4°F or +32°F -20°C or 0°C (Note 1)	-4°F or +32°F -20°C or 0°C (Note 1)	-4°F or +32°F -20°C or 0°C (Note 1)	-4°F or +32°F -20°C or 0°C (Note 1)	-4°F or +32°F -20°C or 0°C (Note 1)	-4°F or +32°F -20°C or 0°C (Note 1)
Flammability Rating	UL 94	V-2	V-2	HB	V-2	V-2	V-2	V-2
Low Smoke	ASTM E662	PASS	PASS	PASS	PASS	PASS	PASS	PASS
Oxygen Index	BS ISO 4589	28	28	—	28	28	28	28
Halogen-Free	IEC 60754-2	Yes	Yes	Yes	Yes	Yes	Yes	Yes
Burning Fume Toxicity	BSS-7239	PASS	PASS	PASS	PASS	PASS	PASS	PASS
Heat Deflection Temperature @ 1.8 Mpa	ASTM D648 ISO 75 -1/-2	158°F 70°C	158°F 70°C	145°F 63°C	158°F 70°C	158°F 70°C	158°F 70°C	158°F 70°C
Relative Price	—	Low	Low	Low	Low	Low	Low	Med

Product Line								
Pan-Ty®		✓	SM, M, I, S	LH, H, EH	✓	✓	✓	✓
Super-Grip® (B1.26)		✓	M, I, S, LH	H	✓			
Dome-Top® Barb Ty (B1.29)		✓	M, I, S	LH	✓	✓	✓	✓
Dura-Ty™ (B1.53)								
Parallel-Entry (B1.38)		✓	M, I, S, HS	LH		✓		
Sta-Strap® (B1.65)		✓	M, I, S, LH, H		✓			
Specialty Ties (B1.73)		✓		H	✓			✓

Check mark indicates material availability in that product line.

Cross Sections: SM = Subminiature, M = Miniature, I = Intermediate, S = Standard, HS = Heavy-Standard, LH = Light-Heavy, H = Heavy, EH = Extra-Heavy.

Recommendation Legend	Highest	High	Acceptable	Low	Lowest
	●	◐	○	◑	●

Bundle	Bundle, Identify	Bundle	Bundle	Bundle, Re-use	Bundle	Bundle	Bundle	Bundle	Bundle	Bundle
Flame Retardant Nylon 6.6	Flame Retardant Nylon 6.6	Weather Resistant Nylon 12	Polypropylene	Weather Resistant Polypropylene	TEFZEL■	HALAR▲	PEEK	Metal Detectable Nylon 6.6	Metal Detectable Polypropylene	Weather Resistant Acetal
Black	Natural Ivory	Black	Green	Black	Aqua Blue	Maroon	Brown	Blue	Blue	Black
60	69	120	109	100	76	702Y	71	86	186	N/A
11,000	11,000	6,700	4,100	4,100	7,500	7,000	15,200	—	—	6,500
1.1%	1.1%	0.3%	0.1%	0.1%	<0.03%	<0.05%	0.5%	1.2%	0.1%	<0.45%
1 x 10 ⁵	1 x 10 ⁵	3.5 x 10 ⁶	1 x 10 ⁶	1 x 10 ⁶	2 x 10 ⁸	2 x 10 ⁸	1 x 10 ⁹	—	1 x 10 ⁶	6 x 10 ⁵
1 – 2	1 – 2	12 – 15	1	7 – 9	>15	>15	—	—	1	>20
◑	◑	○	◐	◐	●	●	●	○	◐	◐
●	●	●	○	○	●	●	●	●	○	●
●	●	○	●	●	●	●	○	●	●	●
◑	◑	◐	●	●	●	●	◐	—	●	◑
-76°F - 212°F -60°C - 100°C	-76°F - 212°F -60°C - 100°C	-76°F - 194°F -60°C - 90°C	-76°F - 239°F -60°C - 115°C	-76°F - 239°F -60°C - 115°C	-76°F - 338°F -60°C - 170°C	-76°F - 257°F -60°C - 125°C	-76°F - 500°F -60°C - 260°C	-76°F - 185°F -60°C - 85°C	-76°F - 239°F -60°C - 115°C	-76°F - 185°F -60°C - 85°C
-4°F or +32°F -20°C or 0°C (Note 1)	-4°F or +32°F -20°C or 0°C (Note 1)	-4°F or +32°F -20°C or 0°C (Note 1)	-4°F or +32°F -20°C or 0°C (Note 1)	-4°F or +32°F -20°C or 0°C (Note 1)	-4°F or +32°F -20°C or 0°C (Note 1)	-4°F or +32°F -20°C or 0°C (Note 1)	-4°F or +32°F -20°C or 0°C (Note 1)	-4°F or +32°F -20°C or 0°C (Note 1)	-4°F or +32°F -20°C or 0°C (Note 1)	-4°F or +32°F -20°C or 0°C (Note 1)
V-0	V-0	HB	HB	HB	V-0	V-0	V-0	HB	HB	HB
PASS	PASS	—	—	—	—	—	PASS	—	—	PASS
34	34	—	—	—	30	52	35	—	—	—
Yes	Yes	Yes	Yes	Yes	No	No	Yes	Yes	Yes	Yes
PASS	PASS	—	—	—	—	—	—	—	—	—
154°F 68°C	154°F 68°C	122°F 50°C	122°F 50°C	122°F 50°C	—	149°F 65°C	313°F 156°C	145°F 63°C	122°F 50°C	239°F 115°C
Med	Med	Med	Med	Med	High	High	High	Low	Med	Med
✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	
	✓									✓
✓										

Note 1: Check UL file for the specific part number rating

Note 2: Based upon UL RTI for electrical properties

■ TEFZEL is a registered trademark of E.I. du Pont de Nemours and Company ▲ HALAR is a registered trademark of Solvay Solexis

Cable Tie Styles Overview

Pan-Ty® Cable Ties



Pages B1.5 – B1.25

- Designed for use in numerous applications to meet a variety of needs in the OEM, MRO, and construction markets
- Largest selection of styles, materials, and sizes
- One-piece construction for consistent performance and reliability
- Lowest threading force of any one-piece cable tie in the industry

Super-Grip® Cable Ties



Pages B1.26 – B1.28

- Designed for the strength requirements of the Heavy Duty market as well as for MRO and construction markets
- Thin, wide strap body – flexible, conforms to bundles
- Strong – withstands rough installation practices
- Grips wires tightly and resists lateral movement

Dome-Top® Barb Ty Cable Ties



Pages B1.29 – B1.37

- Approved in different OEM markets where vibration are key elements to take in consideration, as for example in the Railway business
- Stainless steel barb provides consistent performance and reliability
- Infinitely adjustable for tight bundles throughout entire bundle range
- Dome-top head features unique patented design with smooth, round edges

Parallel-Entry Cable Ties

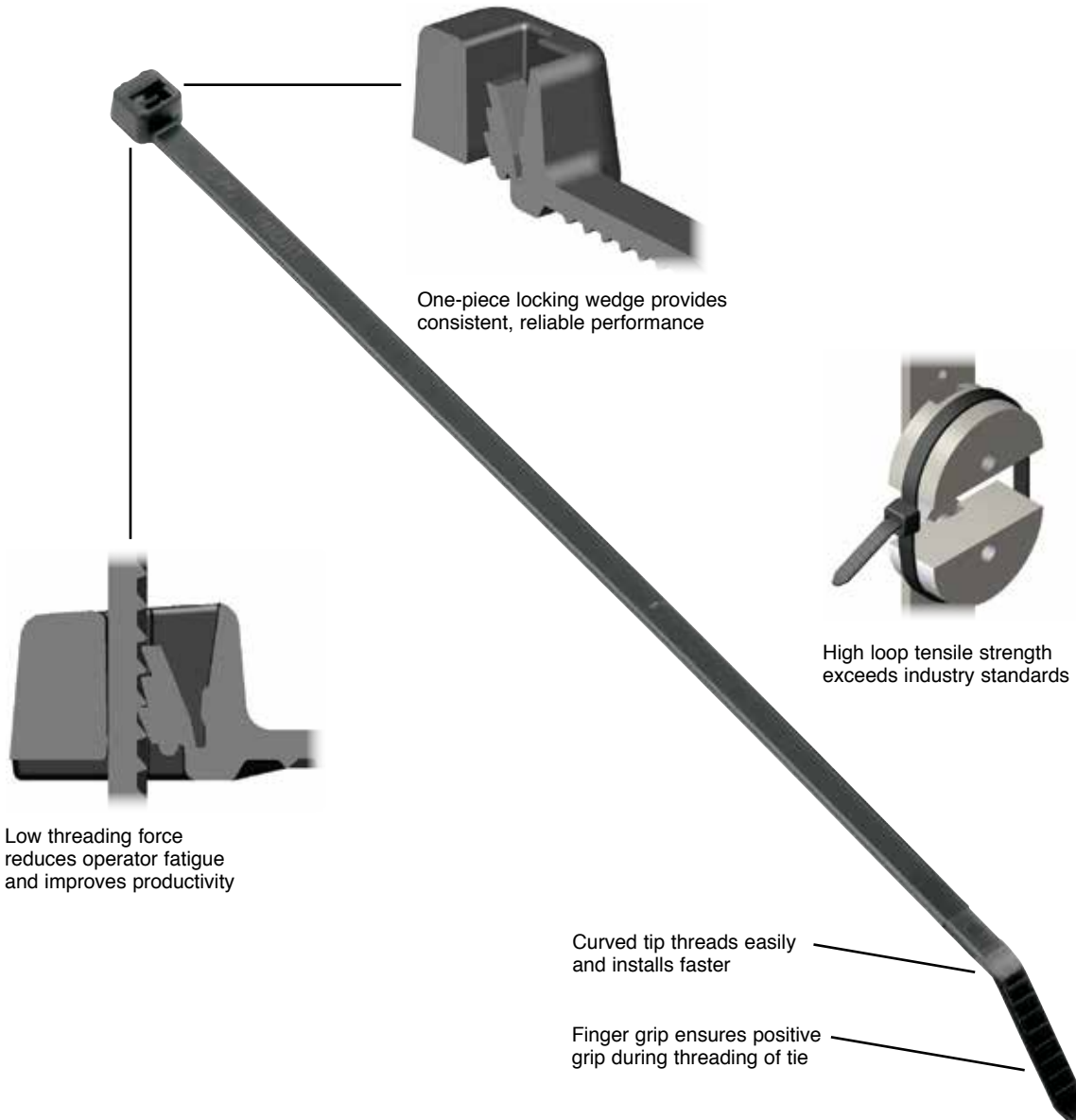


Pages B1.38 – B1.42

- Designed for use in the OEM and transportation markets
- All parallel-entry ties provide a low profile head which avoids snags and reduces overall bundle size
- No protrusion of tie cut-off – protects workers' arms/hands
- Contour-Ty® Cable Ties have outside teeth and smooth, round edges to protect cable jacket – perfect for high vibration applications

Features and Benefits – Pan-Ty® Cable Ties

One-piece design for consistent performance and reliability.
Available in lengths from 71.12mm to 1099.82mm and a variety of styles, materials, and colors for specific applications.



Cable tie tools speed installation and reduce total installed cost.
Visit www.panduit.com/tools.



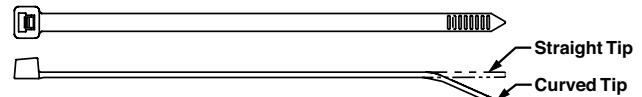
Cable tie accessories are used to speed and simplify the mounting of wires, cables, and tubing.



Pan-Ty® Cable Ties – Nylon 6.6 Halogen-Free**

- For indoor use
- Versatile cable ties can be used in countless applications
- One-piece construction for consistent performance and reliability
- Among the lowest threading force of any one-piece cable tie in the industry

- Curved tip is easy to pick up from flat surfaces and allows faster initial threading to speed installation
- A variety of materials and colors available for specific applications
- UL Listed for use in plenum or air handling spaces per NEC except PLT.6SM and PLT5H/6H/8H/13H



Part Number	Length		Width		Thickness		Max. Bundle Dia.		Min. Loop Tensile Str.		Recommended Installation Tool	Std. Pkg. Qty.	Std. Ctn. Qty.
	In.	mm	In.	mm	In.	mm	In.	mm	Lbs.	N			
Subminiature Cross Section													
PLT.6SM-C	2.8	71	0.070	1.8	0.030	0.8	0.60	15	8	36	GTS-E, PTS	100	1000

Miniature Cross Section – Plenum-Rated

PLT.7M-C	3.1	79	0.090	2.3	0.032	0.8	0.68	17	18	80	GTS-E, GS2B, PTS, PPTS, STS2	100	1000
PLT1M-C	3.9	99	0.098	2.5	0.043	1.1	0.87	22	18	80		100	1000
PLT1.5M-C	5.6	142	0.098	2.5	0.043	1.1	1.25	32	18	80		100	1000
PLT2M-C	8.0	203	0.098	2.5	0.043	1.1	2.00	51	18	80		100	1000

Intermediate Cross Section – Plenum-Rated

PLT1.5I-C	5.6	142	0.142	3.6	0.045	1.1	1.38	35	40	178	GTS-E, GS2B, PTS, PPTS, STS2	100	1000
PLT2I-C	8.0	203	0.142	3.6	0.045	1.1	2.00	51	40	178		100	1000
PLT2.5I-C	9.7	246	0.145	3.7	0.052	1.3	2.50	64	40	178		100	1000
PLT3I-C	11.4	290	0.145	3.7	0.052	1.3	3.00	76	40	178		100	1000
PLT4I-C	14.5	368	0.145	3.7	0.052	1.3	4.00	102	40	178		100	1000

Standard Cross Section – Plenum-Rated NEW! UL TYPE 2S Rated

PLT1S-C	4.8	122	0.190	4.8	0.052	1.3	1.00	25	50	222	GTS-E, GS2B, GTH-E, GS4H, PTS, PPTS, PTH, STS2, STH2	100	1000
PLT1.5S-C	6.2	157	0.190	4.8	0.052	1.3	1.50	38	50	222		100	1000
PLT2S-C	7.4	188	0.190	4.8	0.052	1.3	1.88	48	50	222		100	1000
PLT2.5S-C	9.8	249	0.190	4.8	0.052	1.3	2.50	64	50	222		100	1000
PLT3S-C	11.5	292	0.190	4.8	0.052	1.3	3.00	76	50	222		100	1000
PLT4S-C	14.5	368	0.190	4.8	0.052	1.3	4.00	102	50	222		100	1000
PLT4.5S-C	15.5	394	0.190	4.8	0.052	1.3	4.50	114	50	222		100	1000
PLT5S-C	17.5	445	0.190	4.8	0.052	1.3	5.00	127	50	222		100	500

Light-Heavy Cross Section (Straight Tip) – Plenum-Rated

PLT2H-L	8.1	206	0.300	7.6	0.075	1.9	2.00	51	120	534	GTH-E, GS4H, GS4EH, PTH, STH2, ST3EH	50	500
PLT2.5H-L	9.8	251	0.300	7.6	0.075	1.9	2.50	64	120	534		50	500
PLT3H-L	11.4	290	0.300	7.6	0.075	1.9	3.00	76	120	534		50	500
PLT4H-L	14.5	368	0.300	7.6	0.075	1.9	4.00	102	120	534		50	500
PLT6LH-L	21.9	556	0.300	7.6	0.075	1.9	6.00	152	120	534		50	500
PLT7LH-L	24.7	627	0.300	7.6	0.075	1.9	7.00	178	120	534		50	500
PLT8LH-L	27.6	701	0.300	7.6	0.075	1.9	8.00	203	120	534		50	500
PLT9LH-L*	30.5	775	0.300	7.6	0.075	1.9	9.00	229	120	534		50	500
PLT10LH-L*	34.3	871	0.300	7.6	0.075	1.9	10.31	262	120	534		50	1000

Heavy Cross Section (Straight Tip)

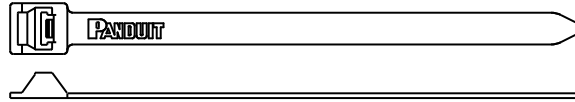
PLT5H-L*	17.7	450	0.350	8.9	0.078	2.0	5.00	127	175	778	GTH-E, GS4H, GS4EH, PTH, STH2, ST3EH	50	500
PLT6H-L*	20.9	530	0.350	8.9	0.078	2.0	6.00	152	175	778		50	500
PLT8H-L*	30.6	779	0.350	8.9	0.078	2.0	9.00	229	175	778		50	500
PLT13H-Q*	43.3	1100	0.350	8.9	0.078	2.0	13.00	330	175	778		25	500

*UL Listed – meets the requirements of UL 181B-C, for securing UL Listed non-metallic air ducts and air connectors.

**All Panduit® cable ties (with the exception of TEFZEL ■ and HALAR ▲) are halogen-free per IEC Specification 61249-2-21.

cUL[®] US LISTED Pan-Ty® Lashing Ties – Nylon 6.6 Halogen-Free**

- For indoor use
- Typically used for heavy duty applications
- Among the strongest Pan-Ty® Cable Tie available
- Can be used with MCEH mounting clip
- UL Listed for use in plenum or air handling spaces per NEC

B1.
Cable Ties
and ToolsB2.
Cable
AccessoriesB3.
Stainless Steel
Cable Ties,
Tools and
Accessories

Part Number	Length		Width		Thickness		Max. Bundle Dia.		Min. Loop Tensile Str.		Recommended Installation Tool	Std. Pkg. Qty.	Std. Ctn. Qty.
	In.	mm	In.	mm	In.	mm	In.	mm	Lbs.	N			
Extra-Heavy Cross Section													
PLT2EH-C	9.0	229	0.500	12.7	0.075	1.9	2.00	51	250	1112	GS4EH, ST3EH	100	1000
PLT5EH-Q	20.1	511	0.500	12.7	0.075	1.9	5.00	127	250	1112		25	250
PLT6EH-Q	22.2	564	0.500	12.7	0.075	1.9	6.00	152	250	1112		25	250
PLT8EH-C	28.3	719	0.500	12.7	0.085	2.2	8.00	203	250	1112		100	1000
PLT10EH-C	34.2	869	0.500	12.7	0.085	2.2	10.00	254	250	1112		100	500
PLT12EH-C	40.1	1019	0.500	12.7	0.085	2.2	12.00	305	250	1112		100	500

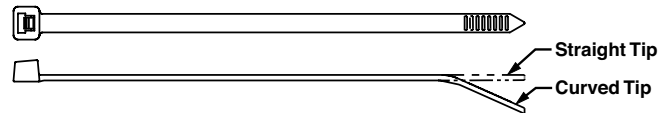
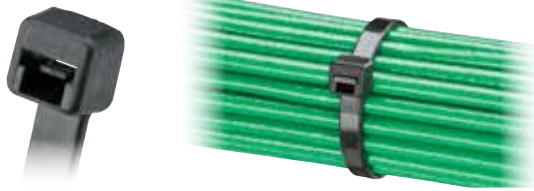
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**All Panduit® cable ties (with the exception of TEFZEL ■ and HALAR ▲) are halogen-free per IEC Specification 61249-2-21.



Pan-Ty® Cable Ties – Weather Resistant Nylon 6.6 Halogen-Free**

- Greater resistance to damage caused by ultraviolet light – indoor or outdoor use
- Versatile cable ties can be used in countless applications
- One-piece construction for consistent performance and reliability
- Among the lowest threading force of any one-piece cable tie in the industry
- Curved tip is easy to pick up from flat surfaces and allows faster initial threading to speed installation



	Length		Width		Thickness		Max. Bundle Dia.		Min. Loop Tensile Str.		Recommended Installation Tool	Std. Pkg. Qty.	Std. Ctn. Qty.
Part Number	In.	mm	In.	mm	In.	mm	In.	mm	Lbs.	N			
Subminiature Cross Section													
PLT.6SM-C0	2.8	71	0.070	1.8	0.030	0.8	0.60	15	8	36	GTS-E, PTS	100	1000
Miniature Cross Section													
PLT.7M-M0	3.1	79	0.090	2.3	0.032	0.8	0.68	17	18	80	GTS-E, GS2B, PTS, PPTS, STS2	1000	50000
PLT1M-C0	3.9	99	0.098	2.5	0.043	1.1	.87	22	18	80		100	1000
PLT1.5M-C0	5.6	142	0.098	2.5	0.043	1.1	1.25	32	18	80		100	1000
PLT2M-C0	8.0	203	0.098	2.5	0.043	1.1	2.00	51	18	80		100	1000
Intermediate Cross Section													
PLT1.5I-C0	5.6	142	0.142	3.6	0.045	1.1	1.38	35	40	178	GTS-E, GS2B, PTS, PPTS, STS2	100	1000
PLT2I-C0	8.0	203	0.142	3.6	0.045	1.1	2.00	51	40	178		100	1000
PLT2.5I-C0	9.7	246	0.145	3.7	0.052	1.3	2.50	64	40	178		100	1000
PLT3I-C0	11.4	290	0.145	3.7	0.052	1.3	3.00	76	40	178		100	1000
PLT4I-C0	14.5	368	0.145	3.7	0.052	1.3	4.00	102	40	178		100	1000
Standard Cross Section													
PLT1S-C0	4.8	122	0.190	4.8	0.052	1.3	1.00	25	50	222	GTS-E, GS2B, GTH-E, GS4H, PTS, PPTS, PTH, STS2, STH2	100	1000
PLT1.5S-C0	6.2	157	0.190	4.8	0.052	1.3	1.50	38	50	222		100	1000
PLT2S-C0	7.4	188	0.190	4.8	0.052	1.3	1.88	48	50	222		100	1000
PLT2.5S-C0	9.8	249	0.190	4.8	0.052	1.3	2.50	64	50	222		100	1000
PLT3S-C0	11.5	292	0.190	4.8	0.052	1.3	3.00	76	50	222		100	1000
PLT4S-C0	14.5	368	0.190	4.8	0.052	1.3	4.00	102	50	222		100	1000
PLT4.5S-C0	15.5	394	0.190	4.8	0.052	1.3	4.50	114	50	222		100	1000
PLT5S-C0	17.5	445	0.190	4.8	0.052	1.3	5.00	127	50	222		100	500
Light-Heavy Cross Section (Straight Tip)													
PLT2H-L0	8.1	206	0.300	7.6	0.075	1.9	2.00	51	120	534	GTH-E, GS4H, GS4EH, PTH, STH2, ST3EH	50	500
PLT2.5H-L0	9.8	251	0.300	7.6	0.075	1.9	2.50	64	120	534		50	500
PLT3H-L0	11.4	290	0.300	7.6	0.075	1.9	3.00	76	120	534		50	500
PLT4H-L0	14.5	368	0.300	7.6	0.075	1.9	4.00	102	120	534		50	500
PLT4H-TL0/147	14.5	368	0.300	7.6	0.075	1.5	4.11	104.5	120	534		250	2500
PLT6LH-L0	21.9	556	0.300	7.6	0.075	1.9	6.00	152	120	534		50	500
PLT7LH-L0	24.7	627	0.300	7.6	0.075	1.9	7.00	178	120	534		50	500
PLT8LH-L0	27.6	701	0.300	7.6	0.075	1.9	8.00	203	120	534		50	500
PLT9LH-L0	30.5	775	0.300	7.6	0.075	1.9	9.00	229	120	534		50	500
Heavy Cross Section (Straight Tip)													
PLT5H-L0	17.7	450	0.350	8.9	0.078	2.0	5.00	127	175	778	GTH-E, GS4H, GS4EH, PTH, STH2, ST3EH	50	500
PLT6H-L0	20.9	530	0.350	8.9	0.078	2.0	6.00	152	175	778		50	500
PLT8H-L0	30.6	779	0.350	8.9	0.078	2.0	9.00	229	175	778		50	500
PLT13H-Q0	43.3	1100	0.350	8.9	0.078	2.0	13.00	330	175	778		25	500

UL Listed or UL Recognized except LH and H cross sections.

**All Panduit® cable ties (with the exception of TEFZEL ■ and HALAR ▲) are halogen-free per IEC Specification 61249-2-21.

Pan-Ty® Lashing Ties – Weather Resistant Nylon 6.6 Halogen-Free**

- Greater resistance to damage caused by ultraviolet light – indoor or outdoor use
- Typically used for heavy duty applications
- Among the strongest Pan-Ty® Cable Tie available
- Can be used with MCEH mounting clip, shown below



Lashing Tie



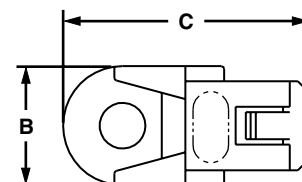
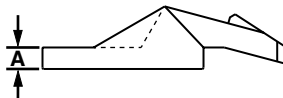
No Buckle Design



Part Number	Length		Width		Thickness		Max. Bundle Dia.		Min. Loop Tensile Str.		Recommended Installation Tool	Std. Pkg. Qty.	Std. Ctn. Qty.
	In.	mm	In.	mm	In.	mm	In.	mm	Lbs.	N			
Extra-Heavy Cross Section													
PLT2EH-Q0	9.0	229	0.500	12.7	0.075	1.9	2.00	51	250	1112	GS4EH, ST3EH	25	250
PLT5EH-Q0	20.1	511	0.500	12.7	0.075	1.9	5.00	127	250	1112		25	250
PLT6EH-Q0	22.2	564	0.500	12.7	0.075	1.9	6.00	152	250	1112		25	250
PLT8EH-Q0	28.3	719	0.500	12.7	0.085	2.2	8.00	203	250	1112		25	250
PLT10EH-Q0	34.2	869	0.500	12.7	0.085	2.2	10.00	254	250	1112		25	250
PLT12EH-Q0	40.1	1019	0.500	12.7	0.085	2.2	12.00	305	250	1112		25	250
Extra-Heavy Cross Section (No Buckle Design)													
PLT3EH-NB-C0	12.2	310	0.500	12.7	0.075	1.9	3.30	84	250	1112	GS4EH, ST3EH	100	1000
PLT5EH-NB-C0	19.8	503	0.500	12.7	0.075	1.9	5.00	127	250	1112		100	1000
PLT6EH-NB-C0	21.8	554	0.500	12.7	0.075	1.9	6.00	152	250	1112		100	1000

cUL[®] LISTED Lashing Tie Mounting Clip – Weather Resistant Nylon 6.6 Halogen-Free**

- Greater resistance to damage caused by ultraviolet light – indoor or outdoor use
- Converts Panduit® lashing ties into clamps
- Easily snaps in place for a secure clamp
- Use with lashing ties



Part Number	Height A		Width B		Length C		Mounting Method	Std. Pkg. Qty.	Std. Ctn. Qty.
	In.	mm	In.	mm	In.	mm			
MCEH-S25-C0	0.13	3.3	0.67	17.0	1.38	35	1/4" (M6) screw (not flathead)	100	1000

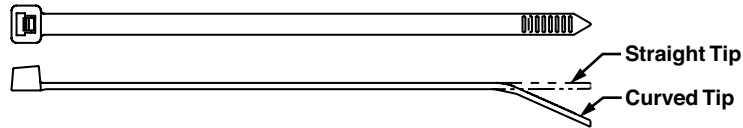
**All Panduit® cable ties (with the exception of TEFZEL ■ and HALAR ▲) are halogen-free per IEC Specification 61249-2-21.

B1.
Cable Ties
and ToolsB2.
Cable
AccessoriesB3.
Stainless Steel
Cable Ties,
Tools and
AccessoriesC1.
Wiring
DuctC2.
Abrasion
ProtectionD1.
Terminals
and
FerrulesE1.
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LabelsE3.
Permanent
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Pan-Ty® Cable Ties – Heat Stabilized Nylon 6.6 Halogen-Free**

- For high temperature applications up to 239°F (115°C) – indoor use
- One-piece construction for consistent performance and reliability
- Among the lowest threading force of any one-piece cable tie in the industry
- Curved tip is easy to pick up from flat surfaces and allows faster initial threading to speed installation



Part Number	Length		Width		Thickness		Max. Bundle Dia.		Min. Loop Tensile Str.		Recommended Installation Tool	Std. Pkg. Qty.	Std. Ctn. Qty.
	In.	mm	In.	mm	In.	mm	In.	mm	Lbs.	N			
Subminiature Cross Section													
PLT.6SM-M30	2.8	71	0.070	1.8	0.030	0.8	.60	15	8	36	GTS-E, PTS	1000	50000
Miniature Cross Section													
PLT.7M-M30	3.1	79	0.090	2.3	0.032	0.8	.68	17	18	80	GTS-E, GS2B, PTS, PPTS, STS2	1000	50000
PLT1M-C30	3.9	99	0.098	2.5	0.043	1.1	.87	22	18	80		100	1000
PLT1.5M-M30	5.6	142	0.098	2.5	0.043	1.1	1.25	32	18	80		1000	50000
PLT2M-M30	8.0	203	0.098	2.5	0.043	1.1	2.00	51	18	80		1000	25000
Intermediate Cross Section													
PLT1.5I-C30	5.6	142	0.142	3.6	0.045	1.1	1.38	35	40	178	GTS-E, GS2B, PTS, PPTS, STS2	100	1000
PLT2I-C30	8.0	203	0.142	3.6	0.045	1.1	2.00	51	40	178		100	1000
PLT3I-M30	11.4	290	0.145	3.7	0.052	1.3	3.00	76	40	178		1000	10000
PLT4I-M30	14.5	368	0.145	3.7	0.052	1.3	4.00	102	40	178		1000	10000
Standard Cross Section													
PLT1S-M30	4.8	122	0.190	4.8	0.052	1.3	1.00	25	50	222	GTS-E, GS2B, GTH-E, GS4H, PTS, PPTS, PTH, STS2, STH2	1000	10000
PLT1.5S-M30	6.2	157	0.190	4.8	0.052	1.3	1.50	38	50	222		1000	10000
PLT2S-C30	7.4	188	0.190	4.8	0.052	1.3	1.88	48	50	222		100	1000
PLT2S-M39*	7.4	188	0.190	4.8	0.052	1.3	1.88	48	50	222		1000	10000
PLT2.5S-M30	9.8	249	0.190	4.8	0.052	1.3	2.50	64	50	222		1000	10000
PLT3S-C30	11.5	292	0.190	4.8	0.052	1.3	3.00	76	50	222		100	1000
PLT4S-C30	14.5	368	0.190	4.8	0.052	1.3	4.00	102	50	222		100	1000
PLT5S-M30	17.5	445	0.190	4.8	0.052	1.3	5.00	127	50	222		1000	5000
Light-Heavy Cross Section (Straight Tip)													
PLT2H-TL30	8.1	206	0.300	7.6	0.075	1.9	2.00	51	120	534	GTH-E, GS4H, GS4EH, PTH, STH2, ST3EH	250	2500
PLT3H-TL30	11.4	290	0.300	7.6	0.075	1.9	3.00	76	120	534		250	2500
PLT4H-TL30	14.5	368	0.300	7.6	0.075	1.9	4.00	102	120	534		250	2500
PLT4H-TL30/147	14.5	368	0.300	7.6	0.060	1.5	4.11	104.5	120	534		250	2500
PLT7LH-C30	24.7	627	0.300	7.6	0.075	1.9	7.00	178	120	534		100	2000
PLT9LH-C30	30.5	775	0.300	7.6	0.075	1.9	9.00	229	120	534		100	1000
Heavy Cross Section (Straight Tip)													
PLT5H-C30	17.7	450	0.350	8.9	0.078	2.0	5.00	127	175	778	GTH-E, GS4H, GS4EH, PTH, STH2, ST3EH	100	2000
PLT6H-C30	20.9	530	0.350	8.9	0.078	2.0	6.00	152	175	778		100	2000
PLT8H-C30	30.6	779	0.350	8.9	0.078	2.0	9.00	229	175	778		100	1500

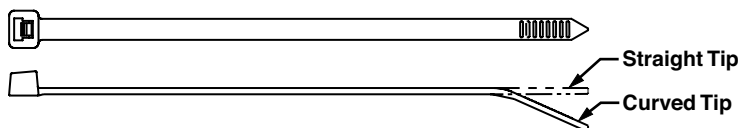
*Natural heat stabilized material (39).

**All Panduit® cable ties (with the exception of TEFZEL ■ and HALAR ▲) are halogen-free per IEC Specification 61249-2-21.



Pan-Ty® Cable Ties – Heat Stabilized Weather Resistant Nylon 6.6 Halogen-Free**

- Greater resistance to damage caused by ultraviolet light and for high temperature applications up to 239°F (115°C) – indoor or outdoor use
- One-piece construction for consistent performance and reliability
- Among the lowest threading force of any one-piece cable tie in the industry
- Curved tip is easy to pick up from flat surfaces and allows faster initial threading to speed installation



Part Number	Length		Width		Thickness		Max. Bundle Dia.		Min. Loop Tensile Str.		Recommended Installation Tool	Std. Pkg. Qty.	Std. Ctn. Qty.
	In.	mm	In.	mm	In.	mm	In.	mm	Lbs.	N			
Miniature Cross Section													
PLT1M-M300	3.9	99	0.098	2.5	0.035	0.9	0.87	22	18	80	GTS-E, GS2B, PTS, PPTS, STS2	1000	50000
Intermediate Cross Section													
PLT1.5I-M300	5.6	142	0.142	3.6	0.045	1.1	1.38	35	40	178	GTS-E, GS2B, PTS, PPTS, STS2	1000	25000
PLT2I-M300	8.0	203	0.142	3.6	0.045	1.1	2.00	51	40	178		1000	25000
Standard Cross Section													
PLT1S-M300	4.8	122	0.190	4.8	0.052	1.3	1.00	25	50	222	GTS-E, GS2B, GTH-E, GS4H, PTS, PTH, PPTS, STS2, STH2	1000	10000
PLT2S-M300	7.4	188	0.190	4.8	0.052	1.3	1.88	48	50	222		1000	10000
PLT4S-M300	14.5	368	0.190	4.8	0.052	1.3	4.00	102	50	222		1000	5000
Light-Heavy Cross Section (Straight Tip)													
PLT2H-TL300	8.4	213	0.300	7.6	0.075	1.9	2.00	51	120	534	GTH-E, GS4H, GS4EH, PTH, STH2, ST3EH	250	2500
PLT4H-TL300	14.5	368	0.300	7.6	0.075	1.9	4.00	102	120	534		250	2500

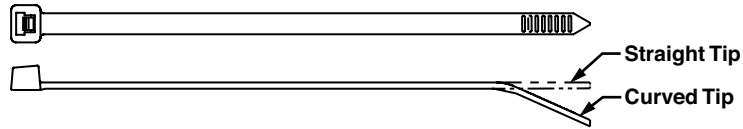
**All Panduit® cable ties (with the exception of TEFZEL ■ and HALAR ▲) are halogen-free per IEC Specification 61249-2-21.

B1.
Cable Ties
and ToolsB2.
Cable
AccessoriesB3.
Stainless Steel
Cable Ties,
Tools and
AccessoriesC1.
Wiring
DuctC2.
Abrasion
ProtectionD1.
Terminals
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Permanent
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Pan-Ty® Cable Ties – Flame Retardant Nylon 6.6 Halogen-Free**

- Flammability rating of UL 94V-0 – indoor use
- One-piece construction for consistent performance and reliability
- Among the lowest threading force of any one-piece cable tie in the industry
- Curved tip is easy to pick up from flat surfaces and allows faster initial threading to speed installation



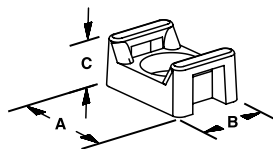
Part Number	Length		Width		Thickness		Max. Bundle Dia.		Min. Loop Tensile Str.		Recommended Installation Tool	Std. Pkg. Qty.	Std. Ctn. Qty.
	In.	mm	In.	mm	In.	mm	In.	mm	Lbs.	N			
Miniature Cross Section													
PLT1M-M60*	4.0	102	0.098	2.5	0.043	1.1	0.87	22	18	80	GTS-E, GS2B, PTS, PPTS, STS2	1000	25000
PLT1M-M69	4.0	102	0.098	2.5	0.043	1.1	0.87	22	18	80		1000	25000
PLT2M-M69	8.0	203	0.098	2.5	0.043	1.1	2.00	51	18	80		1000	25000
Intermediate Cross Section													
PLT1.5I-M69	5.6	142	0.142	3.6	0.044	1.1	1.38	35	40	178	GTS-E, GS2B, PTS, PPTS, STS2	1000	25000
PLT2I-M69	8.0	203	0.142	3.6	0.044	1.1	2.00	51	40	178		1000	25000
Standard Cross Section													
PLT2S-M60*	7.4	188	0.190	4.8	0.052	1.3	1.88	48	50	222	GTS-E, GS2B, GTH-E, GS4H, PTS, PTH, PPTS, STS2, STH2	1000	10000
PLT2S-M69	7.4	188	0.190	4.8	0.052	1.3	1.88	48	50	222		1000	10000
PLT4S-M69	14.5	368	0.190	4.8	0.052	1.3	4.00	102	50	222		1000	5000
Light-Heavy Cross Section (Straight Tip)													
PLT4H-TL69	14.6	371	0.300	7.6	0.075	1.9	4.00	102	120	534	GTH-E, GS4H, GS4EH, PTH, STH2, ST3EH	250	2500

*Black flame retardant material (60).



Cable Tie Mounts – Flame Retardant Nylon 6.6 Halogen-Free**

- Flammability rating of UL 94V-0 – indoor use
- Unique cradle design provides maximum stability for the cable bundle
- Low profile design keeps bundle close to mounting surface



Part Number	Used with Cable Ties*	Length A		Width B		Height C		Counterbore Diameter		Mounting Method	Std. Pkg. Qty.	Std. Ctn. Qty.
		In.	mm	In.	mm	In.	mm	Lbs.	N			
TM1S4-M69	M	0.51	13.0	0.32	8.0	0.23	5.8	0.23	5.7	#4 (M2.5) Screw	1000	5000
TM1S6-M69		0.51	13.0	0.32	8.0	0.23	5.8	0.28	7.0	#6 (M3) Screw	1000	5000
TM2S6-M69	M, I, S	0.63	16.0	0.43	10.8	0.28	7.0	0.29	7.1	#6 (M3) Screw	1000	5000
TM2S8-M69		0.63	16.0	0.43	10.8	0.28	7.0	0.33	8.4	#8 (M4) Screw	1000	5000
TM3S8-C69	M, I, S, LH	0.86	21.9	0.61	15.5	0.37	9.4	0.32	8.1	#8 (M4) Screw	100	500
TM3S10-M69		0.86	21.9	0.61	15.8	0.37	9.4	0.38	9.7	#10 (M5) Screw	1000	5000

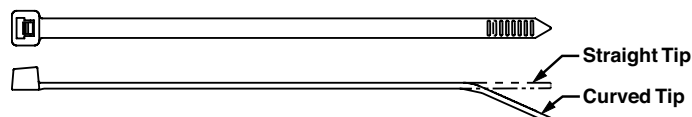
*Cable tie cross section sizes: M = Miniature, I = Intermediate, S = Standard and LH = Light-Heavy.

**All Panduit® cable ties (with the exception of TEFZEL ■ and HALAR ▲) are halogen-free per IEC Specification 61249-2-21.

Pan-Ty® Cable Ties – Weather Resistant Nylon 12 Halogen-Free**



- For high moisture, corrosive (zinc chloride and dilute acids), and low temperature indoor or outdoor applications
- Cable tie of choice for making attachments to galvanized surfaces
- One-piece construction for consistent performance and reliability
- Among the lowest threading force of any one-piece cable tie in the industry
- Curved tip is easy to pick up from flat surfaces and allows faster initial threading to speed installation

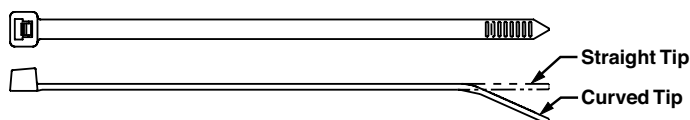


Part Number	Length		Width		Thickness		Max. Bundle Dia.		Min. Loop Tensile Str.		Recommended Installation Tool	Std. Pkg. Qty.	Std. Ctn. Qty.
	In.	mm	In.	mm	In.	mm	In.	mm	Lbs.	N			
Intermediate Cross Section													
PLT1.5I-M120	5.6	142	0.142	3.6	0.045	1.1	1.38	35	25	111	GTS-E, GS2B, PTS, PPTS, STS2	1000	25000
Standard Cross Section													
PLT2S-M120	7.4	188	0.190	4.8	0.052	1.3	1.88	48	40	178	GTS-E, GS2B, GTH-E, GS4H, PTS, PTH, PPTS, STS2, STH2	1000	10000
PLT4S-M120	14.5	368	0.190	4.8	0.052	1.3	4.00	102	40	178		1000	5000
Light-Heavy Cross Section (Straight Tip)													
PLT4H-TL120	14.5	368	0.300	7.6	0.075	1.9	4.00	102	90	400	GTH-E, GTSL, GS4H, GS4EH, PTH, STH2, ST3EH	250	2500
PLT8LH-C120	27.6	701	0.300	7.6	0.075	1.9	8.00	203	90	400		100	2500

Pan-Ty® Cable Ties – Polypropylene – Distinctive Green Color Halogen-Free**



- For chemical resistance where high loop tensile strength is not required especially in the presence of hydrochloric acid, salts, and bases
- For indoor use
- One-piece construction for consistent performance and reliability
- Among the lowest threading force of any one-piece cable tie in the industry
- Curved tip is easy to pick up from flat surfaces and allows faster initial threading to speed installation



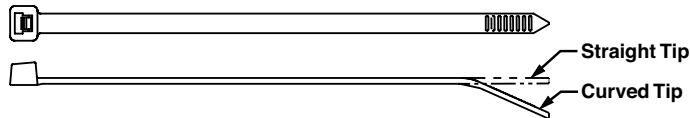
Part Number	Length		Width		Thickness		Max. Bundle Dia.		Min. Loop Tensile Str.		Recommended Installation Tool	Std. Pkg. Qty.	Std. Ctn. Qty.
	In.	mm	In.	mm	In.	mm	In.	mm	Lbs.	N			
Miniature Cross Section													
PLT1M-M109	3.9	99	0.098	2.5	0.043	1.1	0.87	22	11	49	GTS-E, GS2B, PTS, PPTS, STS2	1000	50000
Intermediate Cross Section													
PLT1.5I-M109	5.6	142	0.142	3.6	0.045	1.1	1.38	35	18	80	GTS-E, GS2B, PTS, PPTS, STS2	1000	25000
Standard Cross Section													
PLT2S-M109	7.4	188	0.190	4.8	0.052	1.3	1.88	48	30	133	GTS-E, GS2B, GTH-E, GS4H, PTS, PTH, PPTS, STS2, STH2	1000	10000
PLT3S-M109	11.5	292	0.190	4.8	0.052	1.3	3.00	76	30	133		1000	10000
PLT4S-M109	14.5	368	0.190	4.8	0.052	1.3	4.00	102	30	133		1000	5000
Light-Heavy Cross Section (Straight Tip)													
PLT2H-TL109	8.1	206	0.300	7.6	0.075	1.9	2.00	51	50	222	GTH-E, GS4H, GS4EH, PTH, STH2, ST3EH	250	2500
PLT3H-TL109	11.4	290	0.300	7.6	0.075	1.9	3.00	76	50	222		250	2500
PLT4H-TL109	14.5	368	0.300	7.6	0.075	1.9	4.00	102	50	222		250	2500

**All Panduit® cable ties (with the exception of TEFZEL ■ and HALAR ▲) are halogen-free per IEC Specification 61249-2-21.

Pan-Ty® Cable Ties – Weather Resistant Polypropylene Halogen-Free**



- For chemical resistance where high loop tensile strength is not required especially in the presence of hydrochloric acid, salts, and bases
- Greater resistance to damage caused by ultraviolet light – indoor or outdoor use
- One-piece construction for consistent performance and reliability
- Among the lowest threading force of any one-piece cable tie in the industry
- Curved tip is easy to pick up from flat surfaces and allows faster initial threading to speed installation



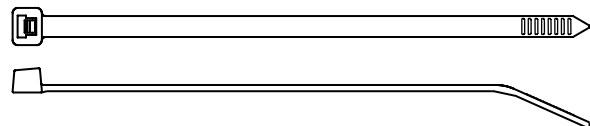
Part Number	Length		Width		Thickness		Max. Bundle Dia.		Min. Loop Tensile Str.		Recommended Installation Tool	Std. Pkg. Qty.	Std. Ctn. Qty.
	In.	mm	In.	mm	In.	mm	In.	mm	Lbs.	N			
Miniature Cross Section													
PLT1M-M100	3.9	99	0.098	2.5	0.043	1.1	0.87	22	11	49	GTS-E, GS2B, PTS, PPTS, STS2	1000	50000
Intermediate Cross Section													
PLT1.5I-M100	5.6	142	0.142	3.6	0.045	1.1	1.38	35	18	80	GTS-E, GS2B, PTS, PPTS, STS2	1000	25000
Standard Cross Section													
PLT2S-M100	7.4	188	0.190	4.8	0.052	1.3	1.88	48	30	133	GTS-E, GS2B, GTH-E, GS4H, PTS, PTH, PPTS, STS2, STH2	1000	10000
PLT3S-M100	11.5	292	0.190	4.8	0.052	1.3	3.00	76	30	133		1000	10000
PLT4S-M100	14.5	368	0.190	4.8	0.052	1.3	4.00	102	30	133		1000	5000
Light-Heavy Cross Section (Straight Tip)													
PLT2H-TL100	8.1	206	0.300	7.6	0.075	1.9	2.00	51	50	222	GTH-E, GS4H, GS4EH, PTH, STH2, ST3EH	250	2500
PLT3H-TL100	11.4	290	0.300	7.6	0.075	1.9	3.00	76	50	222		250	2500
PLT4H-TL100	14.5	368	0.300	7.6	0.075	1.9	4.00	102	50	222		250	2500

**All Panduit® cable ties (with the exception of TEFZEL ■ and HALAR ▲) are halogen-free per IEC Specification 61249-2-21.



Pan-Ty® Cable Ties – HALAR® – Distinctive Maroon Color

- UL Listed for use in plenum or air handling spaces per NEC, Section 300-22 (C) and (D)
- Low smoke density and excellent flammability rating of UL 94V-0
- Commonly accepted solution for bundling qualified cable without conduit in air handling space applications
- Greater resistance to damage caused by ultraviolet light – indoor or outdoor use
- One-piece construction for consistent performance and reliability
- Among the lowest threading force of any one-piece cable tie in the industry
- Curved tip is easy to pick up from flat surfaces and allows faster initial threading to speed installation
- Provides primary support for a flexible conduit, flexible tubing, or cable in accordance with the relevant national installation code



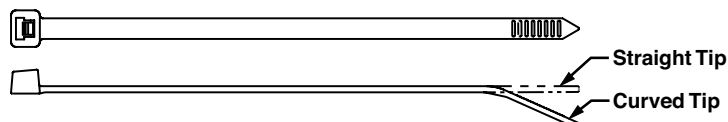
Part Number	Length		Width		Thickness		Max. Bundle Dia.		Min. Loop Tensile Str.		Recommended Installation Tool	Std. Pkg. Qty.	Std. Ctn. Qty.
	In.	mm	In.	mm	In.	mm	In.	mm	Lbs.	N			
Miniature Cross Section — Plenum-Rated													
PLT1M-C702Y	4.0	102	0.098	2.5	0.043	1.1	0.87	22	18	80	GTS-E, GS2B, PTS, PPTS, STS2	100	1000
Standard Cross Section — Plenum-Rated													
PLT2S-C702Y	7.4	188	0.190	4.8	0.055	1.4	1.88	48	50	222	GTS-E, GS2B, GTH-E, GS4H, PTS, PTH, PPTS, STS2, STH2	100	1000
PLT3S-C702Y	11.6	295	0.190	4.8	0.055	1.4	3.00	76	50	222		100	1000

▲HALAR is a registered trademark of Solvay Solexis



Pan-Ty® Cable Ties – TEFZEL® – Distinctive Aqua Blue Color

- Ideal for applications requiring resistance to environmental stresses such as chemical attack, gamma radiation, ultraviolet radiation and extreme high and low temperatures
- Ideal for use in nuclear power facilities and chemical processing plants and meets the requirements of IEEE 383
- Low smoke density and excellent flammability rating of UL 94V-0
- One-piece construction for consistent performance and reliability
- Among the lowest threading force of any one-piece cable tie in the industry
- Curved tip is easy to pick up from flat surfaces and allows faster initial threading to speed installation
- For indoor or outdoor use

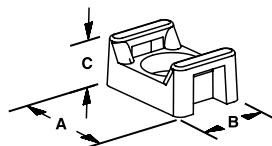


Part Number	Length		Width		Thickness		Max. Bundle Dia.		Min. Loop Tensile Str.		Recommended Installation Tool	Std. Pkg. Qty.	Std. Ctn. Qty.
	In.	mm	In.	mm	In.	mm	In.	mm	Lbs.	N			
Miniature Cross Section													
PLT1M-C76	4.0	102	0.098	2.5	0.043	1.1	.87	22	18	80	GTS-E, GS2B, PTS, PPTS, STS2	100	1000
Intermediate Cross Section													
PLT2I-C76	8.0	203	0.135	3.4	0.045	1.1	2.00	51	30	133	GTS-E, GS2B, PTS, PPTS, STS2	100	1000
Standard Cross Section													
PLT2S-C76	7.4	188	0.190	4.8	0.055	1.4	1.88	48	50	222	GTS-E, GS2B, GTH-E, GS4H, PTS, PTH, PPTS, STS2, STH2	100	1000
PLT3S-C76	11.6	295	0.190	4.8	0.059	1.5	3.00	76	50	222		100	1000
PLT4S-C76	14.6	371	0.190	4.8	0.059	1.5	4.00	102	50	222		100	1000
Light-Heavy Cross Section (Straight Tip)													
PLT3H-L76	11.5	292	0.300	7.6	0.075	1.9	3.00	78	120	534	GTH-E, GS4H, GS4EH, PTH, STH2, ST3EH	50	500
PLT4H-L76	14.6	371	0.300	7.6	0.075	1.9	4.00	102	120	534		50	500

■ TEFZEL is a registered trademark of E. I. du Pont de Nemours and Company.

UL® Cable Tie Mounts – TEFZEL® LISTED

- Flammability rating of UL 94V-0 – indoor use
- Unique cradle design provides maximum stability for the cable bundle
- Low profile design keeps bundle close to mounting surface



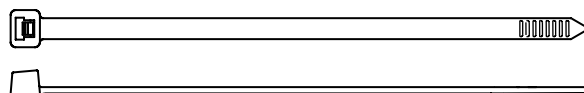
Part Number	Used with Cable Ties*	Length A		Width B		Height C		Counterbore Diameter		Mounting Method	Std. Pkg. Qty.	Std. Ctn. Qty.
		In.	mm	In.	mm	In.	mm	In.	mm			
TM2S8-C76	M, I, S	0.63	16.0	0.43	10.8	0.28	7.0	0.30	7.6	#8 (M4) screw	100	500
TM3S8-C76	S, LH	0.86	21.7	0.62	15.5	0.38	9.5	0.37	9.4	#8 (M4) screw	100	500
TM3S10-C76		0.86	21.7	0.62	15.8	0.38	9.5	0.37	9.4	#10 (M5) screw	100	500

*Cable tie cross section sizes: M = Miniature, I = Intermediate, S = Standard, LH = Light-Heavy.

■ TEFZEL is a registered trademark of E. I. du Pont de Nemours and Company.

Pan-Ty® Cable Ties – PEEK (Polyetheretherketone) Halogen-Free**

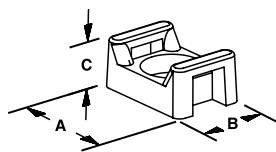
- Ideal for harsh environments where a cable tie material is required to hold up to chemical or radiation exposure
- Non-conductive material that is excellent for high temperature applications up to 500°F (260°C)
- High strength properties over a wide range of temperatures
- Flammability rating of UL 94V-0 with low smoke and toxicity; halogen-free
- PEEK material meets MIL specification MIL-P-46183, and is approved for use by the Department of Defense
- One-piece construction for consistent performance and reliability
- Among the lowest threading force of any one-piece cable tie in the industry



Part Number	Length		Width		Thickness		Max. Bundle Dia.		Min. Loop Tensile Str.		Recommended Installation Tool	Std. Pkg. Qty.	Std. Ctn. Qty.
	In.	mm	In.	mm	In.	mm	In.	mm	Lbs.	N			
Miniature Cross Section													
PLT1M-C71	4.0	102	0.098	2.5	0.048	1.2	0.87	22	35	156	GTS-E, PTS	100	1000
PLT1.5M-C71	5.9	150	0.098	2.5	0.048	1.2	1.38	35	35	156		100	1000
Standard Cross Section													
PLT2S-C71	7.4	188	0.190	4.8	0.055	1.4	1.88	48	050	668	GTS-E, GS2B, GTH-E, GS4H, PTS, PTH, PPTS, STS2, STH2	100	1000

Cable Tie Mounts – (Polyetheretherketone) Halogen-Free**

- Unique cradle design provides maximum stability for cable bundle
- Low profile design keeps bundle close to mounting surface where overhead space is limited



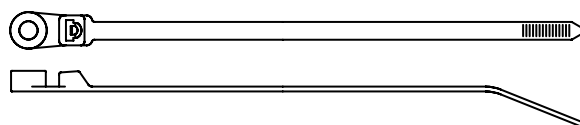
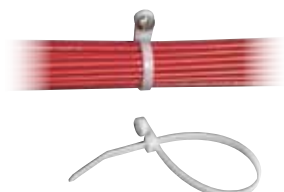
Part Number	Used with Cable Ties*	A Length In. mm	B Width In. mm	C Height In. mm	Counterbore Diameter In. (mm)	Mounting Method	Std. Pkg. Qty.	Std. Ctn. Qty.
TM2S8-C71	Min., Std.	0.636 (16.2)	0.427 (10.8)	0.278 (7.1)	0.335 (8.5)	#8 (M4) screw	100	500

**All Panduit® cable ties (with the exception of TEFZEL ■ and HALAR ▲) are halogen-free per IEC Specification 61249-2-21.



Pan-Ty® Clamp Ties – Nylon 6.6 Halogen-Free**

- For indoor use
- Used to secure a cable bundle to another surface such as a control panel, communication rack, wall or ceiling
- Design allows for bundling before or after screwing clamp in place
- One-piece construction for consistent performance and reliability
- Curved tip is easy to pick up from flat surfaces and allows faster initial threading to speed installation
- UL Listed for use in plenum or air handling spaces per NEC
- Weather resistant material has greater resistance to damage caused by ultraviolet light – indoor or outdoor use
- Heat stabilized material for high temperature applications up to 239°F (115°C) – indoor use
- The part numbers (0) or (30) need to be added to get the desired version of the cable tie



	Length		Width		Thickness		Nominal Hole Dia.		Screw Size	Metric Screw Size	Max. Bundle Dia.		Min. Loop Tensile Str.		Recommended Installation Tool	Std. Pkg. Qty.	Std. Ctn. Qty.
Part Number	In.	mm	In.	mm	In.	mm	In.	mm			In.	mm	Lbs.	N			
Miniature Cross Section — Plenum-Rated																	
PLC1M-S4-C	4.3	109	0.100	2.5	0.045	1.1	0.122	3.1	#4	M2.5	.75	19	18	80	GTS-E, GS2B, PTS, PPTS, STS2	100	1000
Intermediate Cross Section — Plenum-Rated																	
PLC1.5I-S8-C	6.1	155	0.135	3.4	0.045	1.1	0.174	4.4	#8	M4	1.25	32	40	178	GTS-E, GS2B, PTS, PPTS, STS2	100	1000
Standard Cross Section — Plenum-Rated																	
PLC2S-S6-C	7.9	201	0.190	4.8	0.047	1.2	0.148	3.8	#6	M3	1.84	47	50	222	GTS-E, GS2B, GTH-E, GS4H, PTS, PTH, PPTS, STS2, STH2	100	1000
PLC2S-S10-C	7.9	201	0.190	4.8	0.047	1.2	0.200	5.1	#10	M5	1.84	47	50	222		100	1000
PLC3S-S10-C	12.0	305	0.190	4.8	0.047	1.2	0.200	5.1	#10	M5	3.00	76	50	222		100	1000
PLC4S-S10-C	15.0	381	0.190	4.8	0.052	1.3	0.200	5.1	#10	M5	4.00	102	50	222		100	1000
Light-Heavy Cross Section — Plenum-Rated																	
PLC2H-S25-L	9.0	229	0.300	7.6	0.075	1.9	0.260	6.6	1/4	M6	2.00	51	120	534	GTH-E, GS4H, GS4EH, PTH, STH2, ST3EH	50	500
PLC4H-S25-L	15.1	384	0.300	7.6	0.075	1.9	0.260	6.6	1/4	M6	4.00	102	120	534		50	500

**All Panduit® cable ties (with the exception of TEFZEL ■ and HALAR ▲) are halogen-free per IEC Specification 61249-2-21.

A.
System
Overview

B1.
Cable Ties
and Tools

B2.
Cable
Accessories

B3.
Stainless Steel
Cable Ties,
Tools and
Accessories

C1.
Wiring
Duct

C2.
Abrasion
Protection

D1.
Terminals
and
Ferrules

E1.
Labeling
Systems

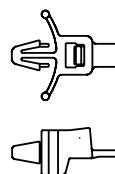
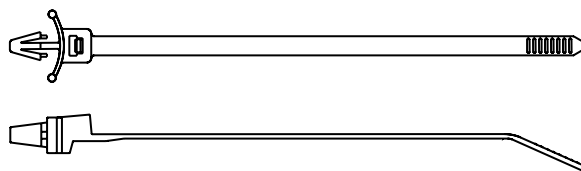
E2.
Labels

E3.
Permanent
Identification

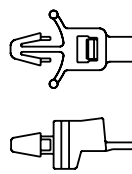
F.
Part
Number
Index

cUL[®] US cSP[®] US Pan-Ty[®] Wing Push Mount Ties – Nylon 6.6 Halogen-Free**

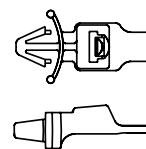
- For indoor use
- Cable tie, mount, and fastener in a single part
- Used to attach bundles to another surface such as a flat panel
- Anchor is easily pressed into a pre-formed hole and locks in place
- Wings provide constant tension for a stable, secure, and rattle-free installation
- Curved tip is easy to pick up from flat surfaces and allows faster initial threading to speed installation
- Weather resistant material has greater resistance to damage caused by ultraviolet light – indoor or outdoor use
- Heat stabilized material for high temperature applications up to 239°F (115°C) – indoor use



PLWP_SA
Head Design



PLWP_SB
Head Design



PLWP_H
Head Design

Part Number	Length		Width		Thickness		Nominal Hole Dia.		Max. Panel Thickness		Max. Bundle Dia.		Min. Loop Tensile Str.		Recommended Installation Tool	Std. Pkg. Qty.	Std. Ctn. Qty.
	In.	mm	In.	mm	In.	mm	In.	mm	In.	mm	In.	mm	Lbs.	N			

Miniature Cross Section

PLWP1M-C	4.3	109	0.098	2.5	0.044	1.1	0.187	4.7	0.093	2.4	0.87	22	18	80	GTS-E, GS2B, PTS, PPTS, STS2	100	1000
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Intermediate Cross Section

PLWP1.5I-C	6.0	152	0.135	3.4	0.045	1.2	0.187	4.7	0.093	2.4	1.25	32	40	178	GTS-E, GS2B, PTS, PPTS, STS2	100	1000
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Standard Cross Section

PLWP1S-C	5.2	132	0.190	4.8	0.052	1.3	0.250	6.4	0.105	2.7	1.00	25	50	222	GTS-E, GS2B, GTH-E, GS4H, PTS, PTH, PPTS, STS2, STH2	100	1000
PLWP1SA-D	5.1	130	0.190	4.8	0.052	1.3	0.187	4.7	0.093	2.4	1.00	25	50	222		500	5000
PLWP1SB-D	5.2	132	0.190	4.8	0.052	1.3	0.187	4.7	0.157	4.0	1.00	25	50	222		500	5000
PLWP1.5S-D	6.8	173	0.190	4.8	0.052	1.3	0.250	6.4	0.105	2.7	1.50	38	50	222		500	5000
PLWP1.5SA-D	6.7	170	0.190	4.8	0.052	1.3	0.187	4.7	0.093	2.4	1.50	38	50	222		500	5000
PLWP2S-C	7.8	198	0.190	4.8	0.052	1.3	0.250	6.4	0.105	2.7	1.75	45	50	222		100	1000
PLWP2SA-D	7.7	196	0.190	4.8	0.052	1.3	0.187	4.7	0.093	2.4	1.75	45	50	222		500	5000
PLWP2SB-D	7.8	198	0.190	4.8	0.052	1.3	0.187	4.7	0.157	4.0	1.75	45	50	222		500	5000

Light-Heavy Cross Section

PLWP2H-TL	8.9	226	0.300	7.6	0.075	1.9	0.266	6.8	0.105	2.7	2.00	51	120	534	GTH-E, GS4H, GS4EH, PTH, STH2, ST3EH	250	2500
PLWP3H-TL	12.0	305	0.300	7.6	0.075	1.9	0.266	6.8	0.105	2.7	3.00	76	120	534		250	2500

Note: UL Recognized and CSA Certified except PLWP2H/3H.

**All Panduit® cable ties (with the exception of TEFZEL ■ and HALAR ▲) are halogen-free per IEC Specification 61249-2-21.



Pan-Ty® Releasable Wing Push Mount Ties Halogen-Free**

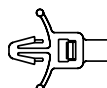
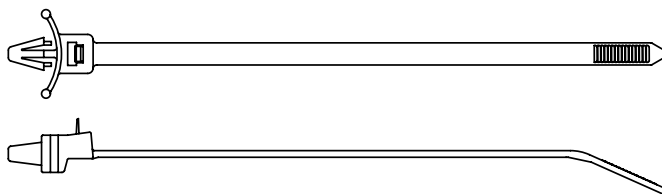
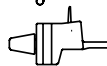
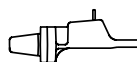
- Natural nylon material for indoor use
- Weather resistant material has greater resistance to damage caused by ultraviolet light – indoor or outdoor use
- Heat stabilized material for high temperature applications up to 239°F (115°C) – indoor use
- Cable tie, mount, and fastener in a single part
- Used to attach bundles to another surface such as a flat panel
- Anchor is easily pressed into a pre-formed hole and locks in place
- Wings provide constant tension for a stable, secure, and rattle-free installation
- Extended release tab permits easy release and re-use where changes are anticipated during development, production, or servicing in the field
- Curved tip is easy to pick up from flat surfaces and allows faster initial threading to speed installation



PRWP2S-D



PRWP2S-D0

PRWP_SA
Head DesignPRWP_SB
Head DesignPRWP_H
Head DesignB1.
Cable Ties
and ToolsB2.
Cable
AccessoriesB3.
Stainless Steel
Cable Ties,
Tools and
AccessoriesC1.
Wiring
DuctC2.
Abrasion
ProtectionD1.
Terminals
and
FerrulesE1.
Labeling
SystemsE2.
LabelsE3.
Permanent
IdentificationF.
Part
Number
Index

Part Number	Length		Width		Thickness		Nominal Hole Dia.		Max. Panel Thickness		Max. Bundle Dia.		Min. Loop Tensile Str.		Recommended Installation Tool	Std. Pkg. Qty.	Std. Ctn. Qty.
	In.	mm	In.	mm	In.	mm	In.	mm	In.	mm	In.	mm	Lbs.	N			
Nylon 6.6																	
Standard Cross Section																	
PRWP1S-C	5.2	132	0.190	4.8	0.052	1.3	0.250	6.4	0.105	2.7	1.00	25	50	222	Hand install only	100	1000
PRWP1SA-D	5.1	130	0.190	4.8	0.052	1.3	0.187	4.7	0.093	2.4	1.00	25	50	222		500	5000
PRWP1SB-D	5.2	132	0.190	4.8	0.052	1.3	0.187	4.7	0.157	4.0	1.00	25	50	222		500	5000
PRWP1.5S-D	6.8	173	0.190	4.8	0.052	1.3	0.250	6.4	0.105	2.7	1.50	38	50	222		500	5000
PRWP2S-D	7.8	198	0.190	4.8	0.052	1.3	0.250	6.4	0.105	2.7	1.75	45	50	222		500	5000

Light-Heavy Cross Section

PRWP2H-TL	8.9	226	0.300	7.6	0.075	1.9	0.266	6.8	0.105	2.7	2.00	51	120	534	Hand install only	250	2500
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Weather Resistant Nylon 6.6

Standard Cross Section

PRWP1S-D0	5.2	132	0.190	4.8	0.052	1.3	0.250	6.4	0.105	2.7	1.00	25	50	222	Hand install only	500	5000
PRWP1.5S-D0	6.8	173	0.190	4.8	0.052	1.3	0.250	6.4	0.105	2.7	1.50	38	50	222		500	5000
PRWP2S-D0	7.8	198	0.190	4.8	0.052	1.3	0.250	6.4	0.105	2.7	1.75	45	50	222		500	5000

Heat Stabilized Nylon 6.6

Standard Cross Section

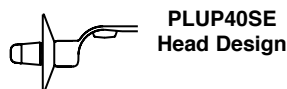
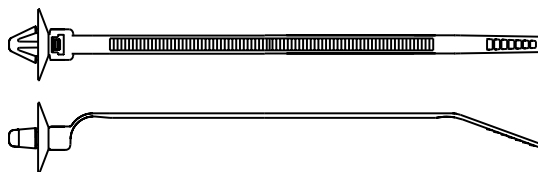
PRWP1.5S-D30	6.8	173	0.190	4.8	0.052	1.3	0.250	6.4	0.105	2.7	1.50	38	50	222	Hand install only	500	5000
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Note: UL Recognized and CSA Certified except PRWP2H.

**All Panduit® cable ties (with the exception of TEFZEL ■ and HALAR ▲) are halogen-free per IEC Specification 61249-2-21.

Pan-Ty® Umbrella Wing Push Mount Ties – Nylon and Heat Stabilized Nylon 6.6 Halogen-Free**

- Natural nylon material for indoor use
- Heat stabilized material for high temperature applications up to 239°F (115°C) – indoor use
- Quick, secure way to fasten to clearance holes in panel
- Anchor is easily pressed into a pre-formed hole in a light gauge metal or plastic and locks in place
- Umbrella shaped disk provides constant tension for a stable, secure, and rattle-free installation
- Disk forms a dust-tight and semi-liquid tight seal to the panel surface
- PLUP40SE style is for use with corrugated loom tubing
- Curved tip is easy to pick up from flat surfaces and allows faster initial threading to speed installation



**PLUP40SE
Head Design**

Part Number	Length		Width		Thickness		Nominal Hole Dia.		Max. Panel Thickness		Max. Bundle Dia.		Min. Loop Tensile Str.		Recommended Installation Tool	Std. Pkg. Qty.	Std. Ctn. Qty.
	In.	mm	In.	mm	In.	mm	In.	mm	In.	mm	In.	mm	Lbs.	N			
Standard Cross Section																	
PLUP40S-D30*	7.0	177	0.190	4.8	0.047	1.2	0.266	6.8	0.050	1.3	1.57	40	50	222	GTS-E, GS2B, GTH-E, GS4H, PTS, PTH, PPTS, STS2, STH2	500	5000
PLUP40SE-D	7.0	177	0.190	4.8	0.047	1.2	0.266	6.8	0.050	1.3	1.57	40	50	222		500	5000
PLUP40SE-D30*	7.0	177	0.190	4.8	0.047	1.2	0.266	6.8	0.050	1.3	1.57	40	50	222		500	5000

*Heat stabilized material (30).

**All Panduit® cable ties (with the exception of TEFZEL ■ and HALAR ▲) are halogen-free per IEC Specification 61249-2-21.



Pan-Ty® Double Loop Cable Ties Halogen-Free**

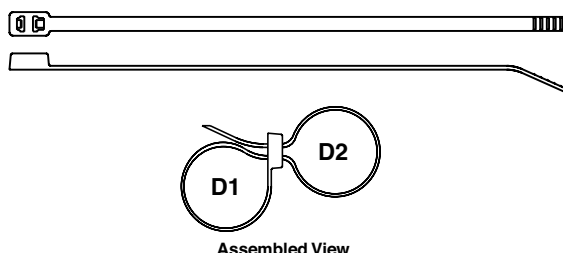
- Natural nylon material for indoor use
- Weather resistant material has greater resistance to damage caused by ultraviolet light – indoor or outdoor use
- Heat stabilized material for high temperature applications up to 239°F (115°C) – indoor use
- A fast and economical method to secure and separate two bundles
- Reduces part number inventory – single part covers multiple bundle sizes
- Installs easily by hand – second loop can be installed with Panduit® cable tie installation tools



PLB4H
Head Design



PLB2S/3S/4S
Head Design



Assembled View

B1.
Cable Ties
and Tools

B2.
Cable
Accessories

B3.
Stainless Steel
Cable Ties,
Tools and
Accessories

C1.
Wiring
Duct

C2.
Abrasion
Protection

D1.
Terminals
and
Ferrules

E1.
Labeling
Systems

E2.
Labels

E3.
Permanent
Identification

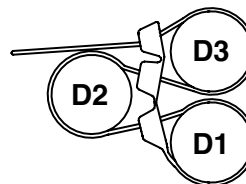
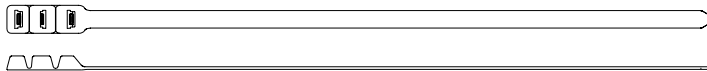
F.
Part
Number
Index

Part Number	Max. Combined Bundle Dia. D1 + D2		Length		Width		Thickness		Min. Loop Tensile Str.		Recommended Installation Tool	Std. Pkg. Qty.	Std. Ctn. Qty.
	In.	mm	In.	mm	In.	mm	In.	mm	Lbs.	N			
Nylon 6.6													
Standard Cross Section													
PLB2S-C	1.80	46	7.6	193	0.190	4.8	0.052	1.3	50	222	GTS-E, GS2B, GTH-E, GS4H, PTS, PTH, PPTS, STS2, STH2	100	1000
PLB3S-C	3.00	76	11.8	300	0.190	4.8	0.052	1.3	50	222		100	1000
PLB4S-C	4.10	104	14.8	376	0.190	4.8	0.052	1.3	50	222		100	1000
Light-Heavy Cross Section													
PLB4H-TL	3.60	91	14.7	373	0.300	7.6	0.075	1.9	120	534	GTH-E, GS4H, GS4EH, PTH, STH2, ST3EH	250	2500
Weather Resistant Nylon 6.6													
Standard Cross Section													
PLB2S-C0	1.80	46	7.6	193	0.190	4.8	0.052	1.3	50	222	GTS-E, GS2B, GTH-E, GS4H, PTS, PTH, PPTS, STS2, STH2	100	1000
PLB3S-C0	3.00	76	11.8	300	0.190	4.8	0.052	1.3	50	222		100	1000
PLB4S-M0	4.10	104	14.8	376	0.190	4.8	0.052	1.3	50	222		1000	5000
Light-Heavy Cross Section													
PLB4H-TL0	3.60	91	14.7	373	0.300	7.6	0.075	1.9	120	534	GTH-E, GS4H, GS4EH, PTH, STH2, ST3EH	250	2500
Heat Stabilized Nylon 6.6													
Standard Cross Section													
PLB2S-M30	1.80	46	7.6	193	0.190	4.8	0.052	1.3	50	222	GTS-E, GS2B, GTH-E, GS4H, PTS, PTH, PPTS, STS2, STH2	1000	10000
PLB3S-M30	3.00	76	11.8	300	0.190	4.8	0.052	1.3	50	222		1000	10000
PLB4S-M30	4.10	104	14.8	376	0.190	4.8	0.052	1.3	50	222		1000	5000
Light-Heavy Cross Section													
PLB4H-TL30	3.60	91	14.7	373	0.300	7.6	0.075	1.9	120	534	GTH-E, GS4H, GS4EH, PTH, STH2, ST3EH	250	2500

**All Panduit® cable ties (with the exception of TEFZEL ■ and HALAR ▲) are halogen-free per IEC Specification 61249-2-21.

Pan-Ty® Triple Loop Cable Tie – Weather Resistant Nylon 6.6 Halogen-Free**

- Greater resistance to damage caused by ultraviolet light – indoor or outdoor use
- A fast and economical method to secure and separate three bundles
- Third loop can be installed with Panduit® cable tie installation tools

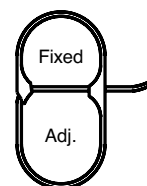
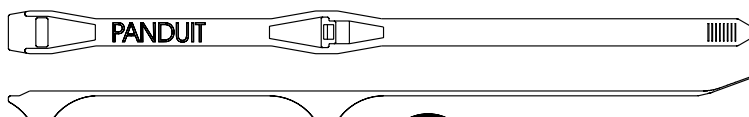


Assembled View

Part Number	Max. Combined Bundle Dia. D1 + D2 + D3		Length		Width		Thickness		Min. Loop Tensile Str.		Recommended Installation Tool	Std. Pkg. Qty.	Std. Ctn. Qty.
	In.	mm	In.	mm	In.	mm	In.	mm	Lbs.	N			
Extra-Heavy Cross Section													
PL3B5EH-C0	5.00	127	20.0	508	0.500	12.7	0.075	1.9	125	556	GS4EH, ST3EH	100	1000

Double Hose Clamp – Weather Resistant Nylon 6.6 Halogen-Free**

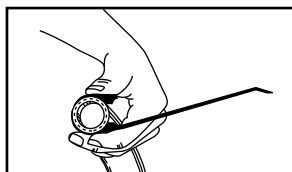
- Greater resistance to damage caused by ultraviolet light – indoor or outdoor use
- Holds and separates two gasoline, hydraulic, or pneumatic hoses
- Holds each hose individually to prevent abrasion and twisting



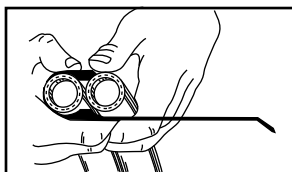
Assembled View

Part Number	Length		Width		Thickness		Fixed Loop Dia.		Adjustable Loop Dia.		Min. Loop Tensile Str.		Recommended Installation Tool	Std. Pkg. Qty.	Std. Ctn. Qty.
	In.	mm	In.	mm	In.	mm	In.	mm	In.	mm	Lbs.	N			
DHC1.12X1.75-D0	11.0	279	0.280	7.1	0.050	1.3	1.12	28	1.00 – 1.75	25 – 44	100	445	GTH-E, GS4H, PTH, STH2, ST3EH	500	2500

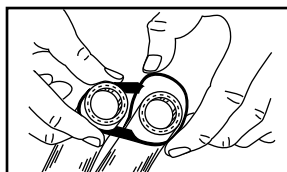
**All Panduit® cable ties (with the exception of TEFZEL ■ and HALAR ▲) are halogen-free per IEC Specification 61249-2-21.



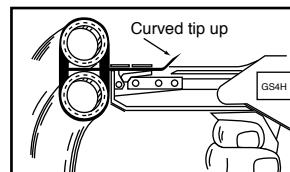
1) Wrap clamp around hose



2) Position second hose in clamp



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

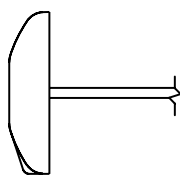


4) Tension and cut off with recommended tool

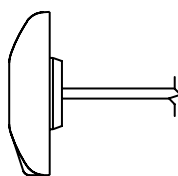


Sta-Strap® Chassis/Panel Mount Ties – Heat Stabilized Weather Resistant Nylon 6.6 Halogen-Free**

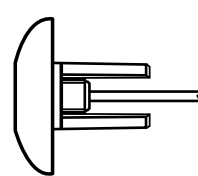
- Greater resistance to damage caused by ultraviolet light and for high temperature applications up to 239°F (115°C) – indoor or outdoor use
- Unique design allows tie to secure a bundle directly to a chassis or panel without the need for separate fasteners or mounting devices
- Releasable prior to final tensioning for bundle modifications
- Engages clearance hole with optional centering pilot to prevent tie from shifting or abrading in high vibration environments



Without
Centering Pilot



With
Centering Pilot

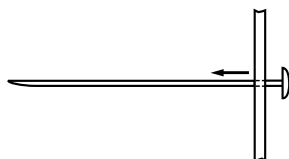


With
Long Centering Pilot

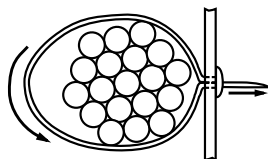
Part Number	Length		Width		Thickness		Hole Diameter Range		Max. Bundle Dia.		Min. Loop Tensile Str.		Recommended Installation Tool	Std. Pkg. Qty.	Std. Ctn. Qty.
	In.	mm	In.	mm	In.	mm	In.	mm	In.	mm	Lbs.	N			
Without Centering Pilot															
SSPM2.5H-L300	10.1	257	0.300	7.6	0.062	1.6	0.316 – 0.820	8.0 – 21.0	2.76	70	120	534	GTH-E, GS4H, GS4EH, PTH, STH2, ST3EH	50	2500
SSPM4H-L300	14.8	376	0.300	7.6	0.062	1.6	0.316 – 0.820	8.0 – 21.0	4.00	102	120	534		50	2500
With Centering Pilot															
SSPM2.5HP-L300	10.1	257	0.300	7.6	0.062	1.6	0.440 – 0.820	11.2 – 21.0	2.76	70	120	534	GTH-E, GS4H, GS4EH, PTH, STH2, ST3EH	50	2500
SSPM4HP-L300	14.8	376	0.300	7.6	0.062	1.6	0.440 – 0.820	11.2 – 21.0	4.00	102	120	534		50	2500
With Long Centering Pilot															
SSPM4HLP-TL300	14.8	376	0.300	7.6	0.062	1.6	0.440 – 0.820	11.2 – 21.0	4.00	102	120	534	GTH-E, GS4H, GS4EH, PTH, STH2, ST3EH	250	2500

**All Panduit® cable ties (with the exception of TEFZEL ■ and HALAR ▲) are halogen-free per IEC Specification 61249-2-21.

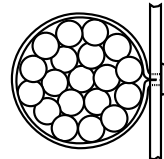
Through-Panel Mount Installation in Three Easy Steps:



1) Insert tip of cable tie through the pre-drilled hole in the panel.



2) Wrap cable tie around the bundle and insert tip back through the hole and head of the cable tie.



3) Pull tip until cable tie is snug on bundle. Tension and cut off excess portion with installation tool.

B1.
Cable Ties
and Tools

B2.
Cable
Accessories

B3.
Stainless Steel
Cable Ties,
Tools and
Accessories

C1.
Wiring
Duct

C2.
Abrasion
Protection

D1.
Terminals
and
Ferrules

E1.
Labeling
Systems

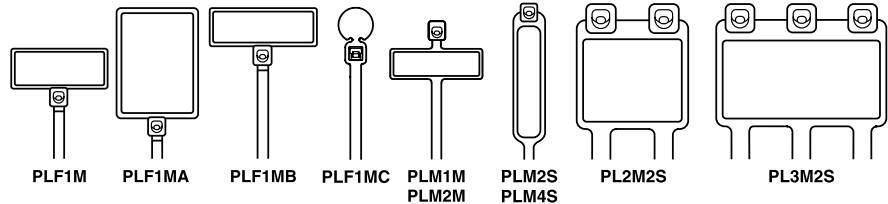
E2.
Labels

E3.
Permanent
Identification

F.
Part
Number
Index

Pan-Ty® Marker and Flag Ties Halogen-Free**

- Natural nylon material for indoor use
- Weather resistant material has greater resistance to damage caused by ultraviolet light – indoor or outdoor use
- Flame retardant material has a flammability rating of UL 94V-0 – for indoor use
- Used to fasten and identify bundles at the same time
- One-piece construction for consistent performance and reliability
- Can be marked with Panduit® marker pens or computer printable labels
- Custom imprinting with text, symbols, or trademarks available using Panduit Custom Hot Stamping Service
- Curved tip is easy to pick up from flat surfaces and allows faster initial threading to speed installation



Part Number	Marker Type	Length		Width		Thickness		Marker Write-On Area		Max. Bundle Dia.		Min. Loop Tensile Str.		Recommended Installation Tool	Std. Pkg. Qty.	Std. Ctn. Qty.
		In.	mm	In.	mm	In.	mm	In.	mm	In.	mm	Lbs.	N			

Nylon 6.6

Miniature Cross Section

PLF1M-C	Flag	4.3	109	0.098	2.5	0.045	1.1	0.31 x 0.75	7.9 x 19.1	0.87	22	18	80	GTS-E, GS2B, PTS, PPTS, STS2	100	1000
PLF1MA-C	Flag	5.1	130	0.098	2.5	0.045	1.1	0.76 x 1.04	19.1 x 26.4	0.87	22	18	80		100	1000
PLF1MB-C	Flag	4.0	101	0.098	2.5	0.045	1.1	0.31 x 0.92	7.9 x 23.4	0.75	19	18	80		100	1000
PLF1MC-M	Flag	4.3	109	0.098	2.5	0.045	1.1	0.29 x 0.32	7.4 x 8.0	0.87	22	18	80		1000	25000
PLM1M-C	Wrap	3.9	99	0.098	2.5	0.035	0.9	0.26 x 0.95	6.6 x 24.1	0.75	19	18	80		100	1000
PLM2M-C	Wrap	8.0	203	0.098	2.5	0.035	0.9	0.26 x 0.95	6.6 x 24.1	2.00	51	18	80		100	1000

Standard Cross Section

PLM2S-C	Wrap	7.4	188	0.185	4.7	0.052	1.3	0.44 x 0.87	11.1 x 22.1	1.75	45	50	222	GTS-E, GS2B, GTH-E, GS4H, PTS, PTH, PPTS, STS2, STH2	100	1000
PLM4S-C	Wrap	14.6	371	0.185	4.7	0.052	1.3	0.44 x 2.00	11.1 x 50.8	4.00	102	50	222		100	1000
PL2M2S-L	Wrap	7.4	188	0.185	4.7	0.052	1.3	0.87 x 1.07	22.1 x 27.2	1.75	45	50	222		50	500
PL3M2S-L	Wrap	7.4	188	0.185	4.7	0.052	1.3	0.87 x 1.79	22.1 x 45.5	1.75	45	50	222		50	500

Weather Resistant Nylon 6.6

Miniature Cross Section

PLF1M-C0	Flag	4.3	109	0.098	2.5	0.045	1.1	0.31 x 0.75	7.9 x 19.1	0.87	22	18	80	GTS-E, GS2B, PTS, PPTS, STS2	100	1000
PLF1MA-M0	Flag	5.1	130	0.098	2.5	0.045	1.1	0.76 x 1.04	19.1 x 26.4	0.87	22	18	80		1000	10000
PLM1M-C0	Wrap	3.9	99	0.098	2.5	0.035	0.9	0.26 x 0.95	6.6 x 24.1	0.75	19	18	80		100	1000
PLM2M-M0	Wrap	8.0	203	0.098	2.5	0.035	0.9	0.26 x 0.95	6.6 x 24.1	2.00	51	18	80		1000	25000

Standard Cross Section

PLM2S-C0	Wrap	7.4	188	0.185	4.7	0.052	1.3	0.44 x 0.87	11.1 x 22.1	1.75	45	50	222	GTS-E, GS2B, GTH-E, GS4H, PTS, PTH, PPTS, STS2, STH2	100	1000
PLM4S-D0	Wrap	14.6	371	0.185	4.7	0.052	1.3	0.44 x 2.00	11.1 x 50.8	4.00	102	50	222		500	5000
PL2M2S-L0	Wrap	7.4	188	0.185	4.7	0.052	1.3	0.87 x 1.07	22.1 x 27.2	1.75	45	50	222		50	500
PL3M2S-D0	Wrap	7.4	188	0.185	4.7	0.052	1.3	0.87 x 1.79	22.1 x 45.5	1.75	45	50	222		500	2500

Flame Retardant Nylon 6.6

Miniature Cross Section

PLF1M-M69	Flag	4.3	109	0.098	2.5	0.045	1.1	0.31 x 0.75	7.9 x 19.1	0.87	22	18	80	GTS-E, GS2B, PTS, PPTS, STS2	1000	25000
PLM1M-M69	Wrap	3.9	99	0.098	2.5	0.035	0.9	0.26 x 0.95	6.6 x 24.1	0.75	19	18	80		1000	25000

**All Panduit® cable ties (with the exception of TEFZEL ■ and HALAR ▲) are halogen-free per IEC Specification 61249-2-21.

Pan-Ty® Cable Ties

Material and Color Chart

Material	Color	Panduit Suffix
Nylon 6.6	Natural	✓
Weather Resistant Nylon 6.6	Black	0
Weather Resistant Nylon 6.6 (meets Mil Spec.)	Black	00
Nylon 6.6	Brown	1
Nylon 6.6	Red	2
Nylon 6.6	Orange	3
Nylon 6.6	Yellow	4Y
Nylon 6.6	Green	5
Nylon 6.6	Blue	6
Nylon 6.6	Purple	7
Nylon 6.6	Gray	8
Nylon 6.6	White	10
Nylon 6.6	Telephone Gray	14
Nylon 6.6	Black	20
Heat Stabilized Nylon 6.6	Black	30
Heat Stabilized Nylon 6.6	Natural	39

✓Denotes Panduit® Natural Nylon 6.6 (no suffix)

■ TEFZEL is a registered trademark of E.I. du Pont de Nemours and Company

▲ HALAR is a registered trademark of Solvay Solexis

Material	Color	Panduit Suffix
Nylon 6.6	Fluorescent Orange	53
Nylon 6.6	Fluorescent Yellow	54
Nylon 6.6	Fluorescent Green	55
Nylon 6.6	Fluorescent Pink	59
Flame Retardant Nylon 6.6	Black	60
Flame Retardant Nylon 6.6	Natural (Ivory)	69
PEEK (Polyetheretherketone)	Translucent Brown	71
TEFZEL■	Aqua Blue	76
Metal Detectable, Nylon	Blue	86
Metal Detectable, Polypropylene	Blue	186
Weather Resistant Polypropylene	Black	100
Polypropylene	Green	109
Nylon 12	Black	120
Heat Stabilized Weather Resistant Nylon 6.6	Black	300
HALAR▲	Maroon	702Y

B1.
Cable Ties
and ToolsB2.
Cable
AccessoriesB3.
Stainless Steel
Cable Ties,
Tools and
AccessoriesC1.
Wiring
DuctC2.
Abrasion
ProtectionD1.
Terminals
and
FerrulesE1.
Labeling
SystemsE2.
LabelsE3.
Permanent
IdentificationF.
Part
Number
Index

Features and Benefits – Super-Grip® Cable Ties

One-piece design with a thin, wide strap body for improved flexibility.

Dome shaped head and smooth, round strap body protect the cable insulation



One-piece locking wedge provides consistent, reliable performance
Strong locking wedge improves strength and allows for rough handling



Thin, flared neck tolerates rough installation practices and improves small bundle performance

Thin, wide strap body provides increased flexibility while maintaining loop tensile strength

High loop tensile strength exceeds industry standards

Curved, tapered tip threads easily and installs faster

Aggressive grips allow temporary threading of tie before the strap teeth are engaged



Cable tie tools speed installation and reduce total installed cost.

Visit www.panduit.com/tools.



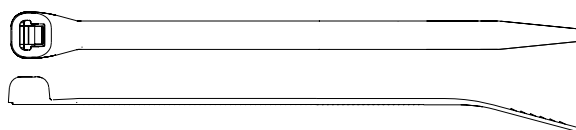
Cable tie accessories are used to speed and simplify the mounting of wires, cables, and tubing.



Super-Grip® Cable Ties – Nylon 6.6 Halogen-Free**

- For indoor use
- Designed to grip the bundle tightly to resist lateral movement of the tie once installed
- High strength allows the tie to withstand rough installation practices that occur in MRO and construction environments
- Thin, wide strap body provides flexibility enabling it to conform to bundle while maintaining tensile strength

- Curved tip is easy to pick up from flat surfaces and allows faster initial threading to speed installation
- UL Listed for use in plenum or air handling spaces per NEC
- Complementary mounts available

B1.
Cable Ties
and ToolsB2.
Cable
AccessoriesB3.
Stainless Steel
Cable Ties,
Tools and
AccessoriesC1.
Wiring
DuctC2.
Abrasion
ProtectionD1.
Terminals
and
FerrulesE1.
Labeling
SystemsE2.
LabelsE3.
Permanent
IdentificationF.
Part
Number
Index

Part Number	Length		Width		Thickness		Max. Bundle Dia.		Min. Loop Tensile Str.		Recommended Installation Tool	Std. Pkg. Qty.	Std. Ctn. Qty.
	In.	mm	In.	mm	In.	mm	In.	mm	Lbs.	N			
Miniature Cross Section – Plenum-Rated													
SG100M-C	4.2	106	0.118	3.0	0.038	1.0	0.90	23	18	80	GTS-E, GS2B, PTS, PPTS, STS2	100	1000
Intermediate Cross Section – Plenum-Rated													
SG150I-C	6.2	157	0.168	4.3	0.040	1.0	1.50	38	40	178	GTS-E, GS2B, PTS, PPTS, STS2	100	1000
Standard Cross Section – Plenum-Rated													
SG200S-C	8.3	211	0.225	5.7	0.046	1.2	2.00	51	50	222	GTS-E, GS2B, GTH-E, GS4H, PTS, PTH, PPTS, STS2, STH2	100	1000
SG250S-C	10.4	264	0.225	5.7	0.050	1.3	2.60	66	75	334		100	1000
SG300S-C	12.4	315	0.225	5.7	0.050	1.3	3.20	81	75	334		100	1000
SG370S-C	15.3	389	0.225	5.7	0.052	1.3	4.20	107	75	334		100	1000
Light-Heavy Cross Section – Plenum-Rated													
SG350LH-L	15.3	389	0.330	8.4	0.064	1.6	4.13	105	120	534	GTH-E, GS4H, GS4EH, PTH, STH2, ST3EH	50	500
Heavy Cross Section – Plenum-Rated													
SG450H-L	18.6	471	0.380	9.7	0.068	1.7	5.20	132	175	778	GTH-E, GS4H, GS4EH, PTH, STH2, ST3EH	50	500

**All Panduit® cable ties (with the exception of TEFZEL ■ and HALAR ▲) are halogen-free per IEC Specification 61249-2-21.



Super-Grip® Cable Ties – Weather Resistant and Heat Stabilized Nylon 6.6 Halogen-Free**

- Weather resistant material has greater resistance to damage caused by ultraviolet light – indoor or outdoor use
- Heat stabilized material for high temperature applications up to 239°F (115°C) – indoor use
- Designed to grip the bundle tightly to resist lateral movement of the tie once installed
- High strength allows the tie to withstand rough installation practices that occur in MRO and construction environments
- Thin, wide strap body provides flexibility enabling it to conform to bundle while maintaining tensile strength
- Curved tip is easy to pick up from flat surfaces and allows faster initial threading to speed installation
- Complementary mounts available



Part Number	Length		Width		Thickness		Max. Bundle Dia.		Min. Loop Tensile Str.		Recommended Installation Tool	Std. Pkg. Qty.	Std. Ctn. Qty.
	In.	mm	In.	mm	In.	mm	In.	mm	Lbs.	N			

Weather Resistant Nylon 6.6

Miniature Cross Section

SG100M-C0	4.2	106	0.118	3.0	0.038	1.0	.90	23	18	80	GTS-E, GS2B, PTS, PPTS, STS2	100	1000
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Intermediate Cross Section

SG150I-C0	6.2	157	0.168	4.3	0.040	1.0	1.50	38	40	178	GTS-E, GS2B, PTS, PPTS, STS2	100	1000
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Standard Cross Section

SG200S-C0	8.3	211	0.225	5.7	0.046	1.2	2.00	51	50	222	GTS-E, GS2B, GTH-E, GS4H, PTS, PTH, PPTS, STS2, STH2	100	1000
SG250S-C0	10.4	264	0.225	5.7	0.050	1.3	2.60	66	75	334		100	1000
SG300S-C0	12.4	315	0.225	5.7	0.050	1.3	3.20	81	75	334		100	1000
SG370S-C0	15.3	389	0.225	5.7	0.052	1.3	4.20	107	75	334		100	1000

Light-Heavy Cross Section

SG350LH-L0	15.3	389	0.330	8.4	0.064	1.6	4.13	105	120	534	GTH-E, GS4H, GS4EH, PTH, STH2, ST3EH	50	500
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Heavy Cross Section

SG450H-L0	18.6	471	0.380	9.7	0.068	1.7	5.20	132	175	778	GTH-E, GS4H, GS4EH, PTH, STH2, ST3EH	50	500
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Heat Stabilized Nylon 6.6

Standard Cross Section

SG200S-M30	8.3	211	0.225	5.7	0.046	1.2	2.00	51	50	222	GTS-E, GS2B, GTH-E, GS4H, PTS, PTH, PPTS, STS2, STH2	1000	10000
SG300S-M30	12.4	315	0.225	5.7	0.050	1.3	3.20	81	70	311		1000	10000

Light-Heavy Cross Section

SG350LH-TL30	15.3	389	0.330	8.4	0.064	1.6	4.13	105	120	534	GTH-E, GS4H, GS4EH, PTH, STH2, ST3EH	250	2500
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Note: UL Listed and CSA Certified except SG450H-L0 and heat stabilized material (30).

Super-Grip® Cable Ties and Mounts Halogen-Free**

Material and Color Chart

Material	Color	Panduit Suffix
Nylon 6.6	Natural	✓
Weather Resistant Nylon 6.6	Black	0
Heat Stabilized Nylon 6.6	Black	30

✓Denotes Panduit® Natural Nylon 6.6 (no suffix).

**All Panduit® cable ties (with the exception of TEFZEL ■ and HALAR ▲) are halogen-free per IEC Specification 61249-2-21.

Features and Benefits – Dome-Top® Barb Ty Cable Ties

Two-piece design incorporates a stainless steel locking barb in a nylon cable tie.

B1.
Cable Ties
and Tools

B2.
Cable
Accessories

B3.
Stainless Steel
Cable Ties,
Tools and
Accessories

C1.
Wiring
Duct

C2.
Abrasion
Protection

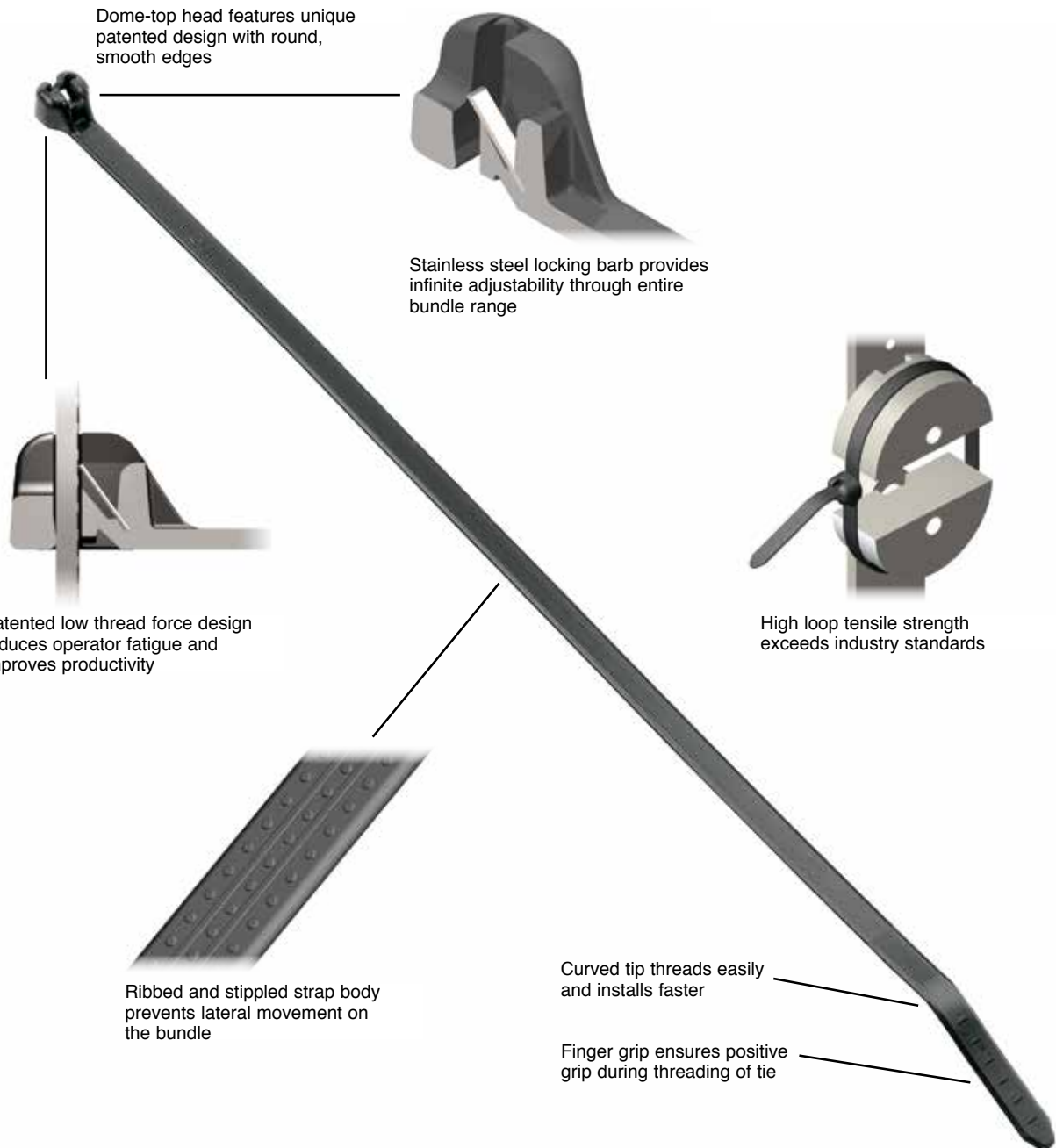
D1.
Terminals
and
Ferrules

E1.
Labeling
Systems

E2.
Labels

E3.
Permanent
Identification

F.
Part
Number
Index



Cable tie tools speed installation and reduce total installed cost. Visit www.panduit.com/tools.

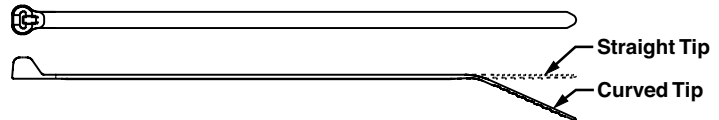


Cable tie accessories are used to speed and simplify the mounting of wires, cables, and tubing.



Dome-Top® Barb Ty Cable Ties – Nylon 6.6 Halogen-Free**

- For indoor use
- Dome-top head features unique patented design with round, smooth edges
- Stainless steel locking barb provides consistent performance, reliability, and infinite adjustability through entire bundle range
- High strength and low thread force
- A variety of materials and colors are available for specific applications
- Curved tip is easy to pick up from flat surfaces and allows faster initial threading to speed installation
- UL Listed for use in plenum or air handling spaces per NEC



Part Number	Length		Width		Thickness		Max. Bundle Dia.		Min. Loop Tensile Str.		Recommended Installation Tool	Std. Pkg. Qty.	Std. Ctn. Qty.
	In.	mm	In.	mm	In.	mm	In.	mm	Lbs.	N			

Miniature Cross Section – Plenum-Rated

BT1M-C	4.0	102	0.095	2.4	0.036	.9	.90	23	18	80	GTS-E, GS2B, PTS, PPTS, STS2	100	1000
BT1.5M-C	6.3	160	0.095	2.4	0.046	1.2	1.50	38	18	80		100	1000
BT2M-C	7.9	201	0.095	2.4	0.046	1.2	2.00	51	18	80		100	1000
BT4M-C	14.2	361	0.095	2.4	0.046	1.2	4.00	102	18	80		100	1000

Intermediate Cross Section – Plenum-Rated

BT1.5I-C	6.1	155	0.141	3.6	0.041	1.0	1.50	38	40	178	GTS-E, GS2B, PTS, PPTS, STS2	100	1000
BT2I-C	8.0	203	0.141	3.6	0.041	1.0	2.00	51	40	178		100	1000
BT3I-C	11.3	287	0.141	3.6	0.049	1.2	3.00	76	40	178		100	1000
BT4I-C	14.3	363	0.141	3.6	0.049	1.2	4.00	102	40	178		100	1000

Standard Cross Section – Plenum-Rated NEW! UL TYPE 2S Rated

BT2S-C	8.0	203	0.185	4.7	0.045	1.2	2.00	51	50	222	GTS-E, GS2B, GTH-E, GS4H, PTS, PTH, PPTS, STS2, STH2	100	1000
BT3S-C	12.0	305	0.185	4.7	0.052	1.3	3.00	76	50	222		100	1000
BT4S-C	15.1	384	0.185	4.7	0.052	1.3	4.00	102	50	222		100	1000

Light-Heavy Cross Section (Straight Tip) – Plenum-Rated

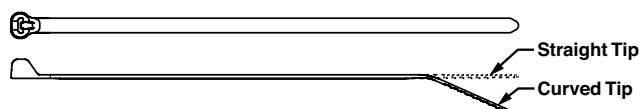
BT2LH-L	8.7	221	0.275	7.0	0.065	1.7	2.00	51	120	534	GTH-E, GS4H, GS4EH, PTH, STH2, ST3EH	50	500
BT3LH-L	11.8	300	0.275	7.0	0.065	1.7	3.00	76	120	534		50	500
BT4LH-L	14.9	378	0.275	7.0	0.065	1.7	4.00	102	120	534		50	500
BT5LH-L	18.1	460	0.275	7.0	0.065	1.7	5.00	127	120	534		50	500
BT6LH-L	21.2	538	0.275	7.0	0.065	1.7	6.00	152	120	534		50	500
BT7LH-L	24.4	620	0.275	7.0	0.065	1.7	7.00	178	120	534		50	500
BT8LH-L	27.5	699	0.275	7.0	0.065	1.7	8.00	203	120	534		50	500
BT9LH-L	30.7	780	0.275	7.0	0.065	1.7	9.00	229	120	534		50	500

**All Panduit® cable ties (with the exception of TEFZEL ■ and HALAR ▲) are halogen-free per IEC Specification 61249-2-21.



Dome-Top® Barb Ty Cable Ties – Weather Resistant Nylon 6.6 Halogen-Free**

- Greater resistance to damage caused by ultraviolet light – indoor or outdoor use
- Dome-top head features unique patented design with round, smooth edges
- Stainless steel locking barb provides consistent performance, reliability, and infinite adjustability through entire bundle range
- High strength and low thread force
- Curved tip is easy to pick up from flat surfaces and allows faster initial threading to speed installation

B1.
Cable Ties
and ToolsB2.
Cable
AccessoriesB3.
Stainless Steel
Cable Ties,
Tools and
AccessoriesC1.
Wiring
DuctC2.
Abrasion
ProtectionD1.
Terminals
and
FerrulesE1.
Labeling
SystemsE2.
LabelsE3.
Permanent
IdentificationF.
Part
Number
Index

Part Number	Length		Width		Thickness		Max. Bundle Dia.		Min. Loop Tensile Str.		Recommended Installation Tool	Std. Pkg. Qty.	Std. Ctn. Qty.
	In.	mm	In.	mm	In.	mm	In.	mm	Lbs.	N			
Miniature Cross Section													
BT1M-C0	4.0	102	0.095	2.4	0.036	.9	.90	23	18	80	GTS-E, GS2B, PTS, PPTS, STS2	100	1000
BT1.5M-C0	6.3	160	0.095	2.4	0.046	1.2	1.50	38	18	80		100	1000
BT2M-C0	7.9	201	0.095	2.4	0.046	1.2	2.00	51	18	80		100	1000
BT4M-C0	14.2	361	0.095	2.4	0.046	1.2	4.00	102	18	80		100	1000
Intermediate Cross Section													
BT1.5I-C0	6.1	155	0.141	3.6	0.041	1.0	1.50	38	40	178	GTS-E, GS2B, PTS, PPTS, STS2	100	1000
BT2I-C0	8.0	203	0.141	3.6	0.041	1.0	2.00	51	40	178		100	1000
BT3I-C0	11.3	287	0.141	3.6	0.049	1.2	3.00	76	40	178		100	1000
BT4I-C0	14.3	363	0.141	3.6	0.049	1.2	4.00	102	40	178		100	1000
Standard Cross Section													
BT2S-C0	8.0	203	0.185	4.7	0.045	1.2	2.00	51	50	222	GTS-E, GS2B, GTH-E, GS4H, PTS, PTH, PPTS, STS2, STH2	100	1000
BT3S-C0	12.0	305	0.185	4.7	0.052	1.3	3.00	76	50	222		100	1000
BT4S-C0	15.1	384	0.185	4.7	0.052	1.3	4.00	102	50	222		100	1000
Light-Heavy Cross Section (Straight Tip)													
BT2LH-L0	8.7	221	0.275	7.0	0.065	1.7	2.00	51	120	534	GTH-E, GS4H, GS4EH, PTH, STH2, ST3EH	50	500
BT3LH-L0	11.8	300	0.275	7.0	0.065	1.7	3.00	76	120	534		50	500
BT4LH-L0	14.9	378	0.275	7.0	0.065	1.7	4.00	102	120	534		50	500
BT5LH-L0	18.1	460	0.275	7.0	0.065	1.7	5.00	127	120	534		50	500
BT6LH-L0	21.2	538	0.275	7.0	0.065	1.7	6.00	152	120	534		50	500
BT7LH-L0	24.4	620	0.275	7.0	0.065	1.7	7.00	178	120	534		50	500
BT8LH-L0	27.5	699	0.275	7.0	0.065	1.7	8.00	203	120	534		50	500
BT9LH-L0	30.7	780	0.275	7.0	0.065	1.7	9.00	229	120	534		50	500

Note: UL Recognized, UL Listed, and CSA Certified, except LH cross section.

**All Panduit® cable ties (with the exception of TEFZEL ■ and HALAR ▲) are halogen-free per IEC Specification 61249-2-21.



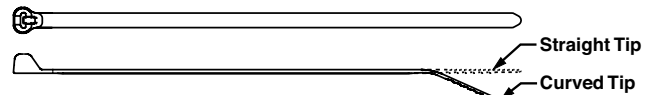
Dome-Top® Barb Ty Cable Ties – Heat Stabilized Nylon 6.6 Halogen-Free**

- For high temperature applications up to 239°F (115°C) – indoor use
- Dome-top head features unique patented design with round, smooth edges
- Stainless steel locking barb provides consistent performance, reliability, and infinite adjustability through entire bundle range
- Curved tip is easy to pick up from flat surfaces and allows faster initial threading to speed installation



BT2S-M30

BT2S-M39



Straight Tip

Curved Tip

Part Number	Length		Width		Thickness		Max. Bundle Dia.		Min. Loop Tensile Str.		Recommended Installation Tool	Std. Pkg. Qty.	Std. Ctn. Qty.
	In.	mm	In.	mm	In.	mm	In.	mm	Lbs.	N			

Heat Stabilized Nylon 6.6

Miniature Cross Section

BT1M-C30	4.0	102	0.095	2.4	0.036	0.9	0.90	23	18	80	GTS-E, GS2B, PTS, PPTS, STS2	100	1000
BT1.5M-M30	6.3	160	0.095	2.4	0.046	1.2	1.50	38	18	80		1000	50000
BT2M-M30	7.9	201	0.095	2.4	0.046	1.2	2.00	51	18	80		1000	25000

Intermediate Cross Section

BT1.5I-M30	6.1	155	0.141	3.6	0.041	1.0	1.50	38	40	178	GTS-E, GS2B, PTS, PPTS, STS2	1000	25000
BT2I-M30	8.0	203	0.141	3.6	0.041	1.0	2.00	51	40	178		1000	25000
BT3I-M30	11.3	287	0.141	3.6	0.049	1.2	3.00	76	40	178		1000	10000

Standard Cross Section

BT2S-M30	8.0	203	0.185	4.7	0.045	1.2	2.00	51	50	222	GTS-E, GS2B, GTH-E, GS4H, PTS, PTH, PPTS, STS2, STH2	1000	10000
BT3S-M30	12.0	305	0.185	4.7	0.052	1.3	3.00	76	50	222		1000	10000
BT4S-M30	15.1	384	0.185	4.7	0.052	1.3	4.00	102	50	222		1000	5000

Light-Heavy Cross Section (Straight Tip)

BT4LH-TL30	14.9	378	0.275	7.0	0.065	1.7	4.00	102	120	534	GTH-E, GS4H, GS4EH, PTH, STH2, ST3EH	250	2500
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Heat Stabilized Nylon 6.6

Miniature Cross Section

BT1M-M39	4.0	102	0.095	2.4	0.036	0.9	0.90	23	18	80	GTS-E, GS2B, PTS, PPTS, STS2	1000	50000
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Intermediate Cross Section

BT1.5I-M39	6.1	155	0.141	3.6	0.041	1.0	1.50	38	40	178	GTS-E, GS2B, PTS, PPTS, STS2	1000	25000
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Standard Cross Section

BT2S-M39	8.0	203	0.185	4.7	0.045	1.2	2.00	51	50	222	GTS-E, GS2B, GTH-E, GS4H, PTS, PTH, PPTS, STS2, STH2	1000	10000
BT3S-M39	12.0	305	0.185	4.7	0.052	1.3	3.00	76	50	222		1000	10000
BT4S-M39	15.1	384	0.185	4.7	0.052	1.3	4.00	102	50	222		1000	5000

Light-Heavy Cross Section (Straight Tip)

BT4LH-TL39	14.9	378	0.275	7.0	0.065	1.7	4.00	102	120	534	GTH-E, GS4H, GS4EH, PTH, STH2, ST3EH	250	2500
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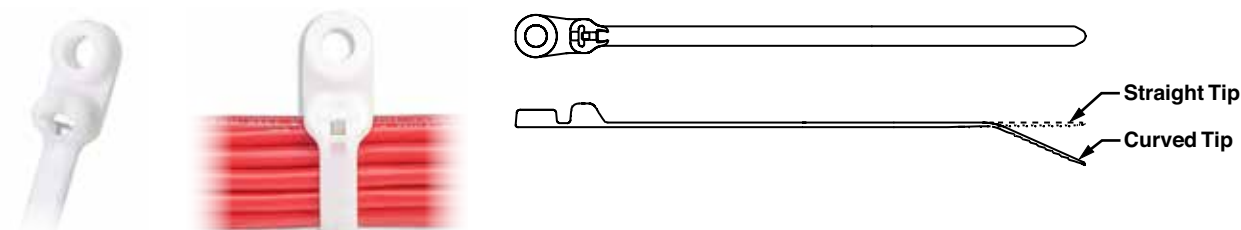
Note: UL Listed and CSA Certified except SG450H-L0 and heat stabilized material (30).

**All Panduit® cable ties (with the exception of TEFZEL ■ and HALAR ▲) are halogen-free per IEC Specification 61249-2-21.



Dome-Top® Barb Ty Clamp Ties – Nylon 6.6 Halogen-Free**

- For indoor use
- Used to secure a cable bundle to another surface such as a control panel, communication rack, wall or ceiling
- Design allows for bundling before or after screwing clamp in place
- Stainless steel locking barb provides consistent performance, reliability, and infinite adjustability through entire bundle range
- Curved tip is easy to pick up from flat surfaces and allows faster initial threading to speed installation
- UL Listed for use in plenum or air handling spaces per NEC

B1.
Cable Ties
and ToolsB2.
Cable
AccessoriesB3.
Stainless Steel
Cable Ties,
Tools and
AccessoriesC1.
Wiring
DuctC2.
Abrasion
ProtectionD1.
Terminals
and
FerrulesE1.
Labeling
SystemsE2.
LabelsE3.
Permanent
IdentificationF.
Part
Number
Index

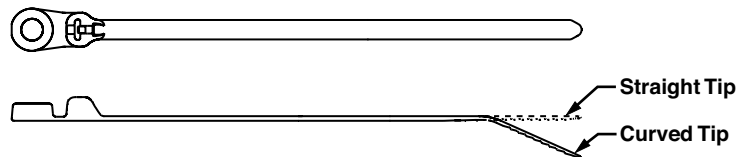
	Length		Width		Thickness		Nominal Hole Dia.		Screw Size	Metric Screw Size	Max. Bundle Dia.		Min. Loop Tensile Str.		Recommended Installation Tool	Std. Pkg. Qty.	Std. Ctn. Qty.
Part Number	In.	mm	In.	mm	In.	mm	In.	mm			In.	mm	Lbs.	N			
Miniature Cross Section — Plenum-Rated																	
BC1M-S4-M	4.6	117	0.095	2.4	0.046	1.2	0.122	3.1	#4	M2.5	0.90	23	18	80	GTS-E, GS2B, PTS, PPTS, STS2	1000	50000
BC2M-S4-M	8.3	211	0.095	2.4	0.046	1.2	0.122	3.1	#4	M2.5	2.00	51	18	80		1000	25000
Intermediate Cross Section — Plenum-Rated																	
BC1.5I-S8-M	6.6	168	0.141	3.6	0.041	1.0	0.174	4.4	#8	M4	1.50	38	40	178	GTS-E, GS2B, PTS, PPTS, STS2	1000	25000
Standard Cross Section — Plenum-Rated																	
BC2S-S10-C	8.5	216	0.185	4.7	0.052	1.3	0.200	5.1	#10	M5	2.00	51	50	222	GTS-E, GS2B, GTH-E, GS4H, PTS, PTH, PPTS, STS2, STH2	100	1000
BC3S-S10-D	12.5	318	0.185	4.7	0.052	1.3	0.200	5.1	#10	M5	3.00	76	50	222		500	5000
BC4S-S10-C	15.6	396	0.185	4.7	0.052	1.3	0.200	5.1	#10	M5	4.00	102	50	222		100	1000
Light-Heavy Cross Section — Plenum-Rated																	
BC4LH-S25-L	15.5	394	0.275	7.0	0.065	1.7	0.260	6.6	1/4	M6	4.00	102	120	534	GTH-E, GS4H, GS4EH, PTH, STH2, ST3EH	50	500

**All Panduit® cable ties (with the exception of TEFZEL ■ and HALAR ▲) are halogen-free per IEC Specification 61249-2-21.



Dome-Top® Barb Ty Clamp Ties – Weather Resistant and Heat Stabilized Nylon 6.6 Halogen-Free**

- Weather Resistant material has greater resistance to damage caused by ultraviolet light – indoor or outdoor use
- Heat stabilized material for high temperature applications up to 239°F (115°C) – indoor use
- Used to secure a cable bundle to another surface such as a control panel, communication rack, wall or ceiling
- Design allows for bundling before or after screwing clamp in place
- Stainless steel locking barb provides consistent performance, reliability, and infinite adjustability through entire bundle range
- Curved tip is easy to pick up from flat surfaces and allows faster initial threading to speed installation



Part Number	Length		Width		Thickness		Nominal Hole Dia.		Screw Size	Metric Screw Size	Max. Bundle Dia.		Min. Loop Tensile Str.		Recommended Installation Tool	Std. Pkg. Qty.	Std. Ctn. Qty.
	In.	mm	In.	mm	In.	mm	In.	mm			In.	mm	Lbs.	N			

Weather Resistant Nylon 6.6

Miniature Cross Section

BC1M-S4-M0	4.6	117	0.095	2.4	0.046	1.2	0.122	3.1	#4	M2.5	0.90	23	18	80	GTS-E, GS2B, PTS, PPTS, STS2	1000	50000
BC2M-S4-M0	8.3	211	0.095	2.4	0.046	1.2	0.122	3.1	#4	M2.5	2.00	51	18	80		1000	25000

Intermediate Cross Section

BC1.5I-S8-M0	6.6	168	0.141	3.6	0.041	1.0	0.174	4.4	#8	M4	1.50	38	40	178	GTS-E, GS2B, PTS, PPTS, STS2	1000	25000
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Standard Cross Section

BC2S-S10-C0	8.5	216	0.185	4.7	0.052	1.3	0.200	5.1	#10	M5	2.00	51	50	222	GTS-E, GS2B, GTH-E, GS4H, PTS, PTH, PPTS, STS2, STH2	100	1000
BC3S-S10-D0	12.5	318	0.185	4.7	0.052	1.3	0.200	5.1	#10	M5	3.00	76	50	222		500	5000
BC4S-S10-C0	15.6	396	0.185	4.7	0.052	1.3	0.200	5.1	#10	M5	4.00	102	50	222		100	1000

Light-Heavy Cross Section (Straight Tip)

BC4LH-S25-L0	15.5	394	0.275	7.0	0.065	1.7	0.260	6.6	1/4	M6	4.00	102	120	534	GTH-E, GS4H, GS4EH, PTH, STH2, ST3EH	50	500
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Heat Stabilized Nylon 6.6

Miniature Cross Section

BC4S-S10-D30	15.6	396	0.185	4.7	0.052	1.3	0.200	5.1	#10	M5	4.00	102	50	222	GTS-E, GS2B, GTH-E, GS4H, PTS, PTH, PPTS, STH2, STS2	500	5000
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Note: UL Recognized and CSA Certified except BC4LH-S25-L0.

**All Panduit® cable ties (with the exception of TEFZEL ■ and HALAR ▲) are halogen-free per IEC Specification 61249-2-21.



Dome-Top® Barb Ty Wing Push Mount Ties – Nylon and Weather Resistant Nylon 6.6 Halogen-Free**

- Natural nylon material for indoor use
- Weather resistant material has greater resistance to damage caused by ultraviolet light – indoor or outdoor use
- Combine cable tie, mount, and fastener into a single part
- Used to attach bundles to another surface such as a flat panel

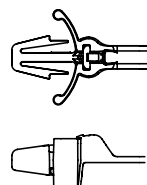
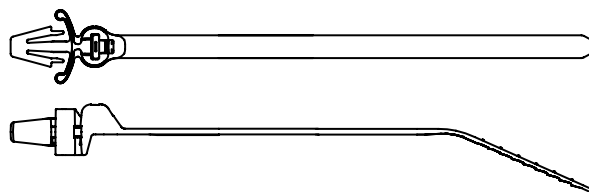
- Anchor is easily pressed into a pre-formed hole and locks in place
- Wings provide constant tension for a stable, secure, and rattle-free installation
- Stainless steel locking barb provides consistent performance, reliability, and infinite adjustability through entire bundle range
- Curved tip is easy to pick up from flat surfaces and allows faster initial threading to speed installation



BW2S-D



BW2S-D0



BW2S Head Design

B1.
Cable Ties
and ToolsB2.
Cable
AccessoriesB3.
Stainless Steel
Cable Ties,
Tools and
AccessoriesC1.
Wiring
DuctC2.
Abrasion
ProtectionD1.
Terminals
and
FerrulesE1.
Labeling
SystemsE2.
LabelsE3.
Permanent
IdentificationF.
Part
Number
Index

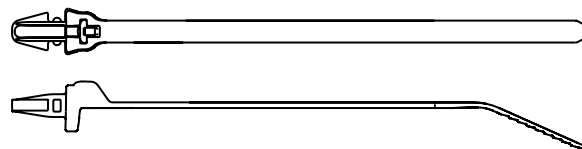
Part Number	Length		Width		Thickness		Nominal Hole Dia.		Max. Panel Thickness		Max. Bundle Dia.		Min. Loop Tensile Str.		Recommended Installation Tool	Std. Pkg. Qty.	Std. Ctn. Qty.
	In.	mm	In.	mm	In.	mm	In.	mm	In.	mm	In.	mm	Lbs.	N			
Nylon 6.6																	
Intermediate Cross Section																	
BW1.5I-D	6.6	177	0.190	4.8	0.047	1.2	0.266	6.8	0.050	1.3	1.57	40	50	222	GTS-E, GS2B, PTS, PPTS, STS2	500	5000
Standard Cross Section																	
BW2S-D	8.5	216	0.185	4.7	0.052	1.3	0.250	6.4	0.156	4.0	2.00	51	50	222	GTS-E, GS2B, GTH-E, GS4H, PTS, PTH, PPTS, STS2, STH2	500	5000
BW3S-D	8.5	216	0.185	4.7	0.052	1.3	0.250	6.4	0.156	4.0	3.00	76	50	222		500	5000
Weather Resistant Nylon 6.6																	
Standard Cross Section																	
BW2S-D0	8.5	216	0.185	4.7	0.052	1.3	0.250	6.4	0.156	4.0	2.00	51	50	222	GTS-E, GS2B, GTH-E, GS4H, PTS, PTH, PPTS, STS2, STH2	500	5000
BW3S-D0	8.5	216	0.185	4.7	0.052	1.3	0.250	6.4	0.156	4.0	3.00	76	50	222		500	5000

**All Panduit® cable ties (with the exception of TEFZEL ■ and HALAR ▲) are halogen-free per IEC Specification 61249-2-21.



Dome-Top® Barb Ty Push Mount Ties – Weather Resistant Nylon 6.6 Halogen-Free**

- Greater resistance to damage caused by ultraviolet light – indoor or outdoor use
- Used to attach bundles to another surface such as a flat panel
- Cable tie, mount, and fastener in a single part
- Anchor is easily pressed into a pre-formed hole and locks in place
- *Wingless* design allows tie to be used in confined spaces
- Stainless steel locking barb provides consistent performance, reliability, and infinite adjustability through entire bundle range
- Curved tip is easy to pick up from flat surfaces and allows faster initial threading to speed installation



Part Number	Length		Width		Thickness		Nominal Hole Dia.		Max. Panel Thickness		Max. Bundle Dia.		Min. Loop Tensile Str.		Recommended Installation Tool	Std. Pkg. Qty.	Std. Ctn. Qty.
	In.	mm	In.	mm	In.	mm	In.	mm	In.	mm	In.	mm	Lbs.	N			
BP2S-D0	8.5	216	0.185	4.7	0.052	1.3	0.255	6.5	0.125	3.2	2.00	51	50	222	GTS-E, GS2B, GTH-E, GS4H, PTS, PTH, PPTS, STS2, STH2	500	5000

**All Panduit® cable ties (with the exception of TEFZEL ■ and HALAR ▲) are halogen-free per IEC Specification 61249-2-21.

Permanent Marking Pens

- Fast drying, permanent ink for identification on marker ties, marker plates, or cable marker straps
- May be used with any label shown in the catalog when a printer is not available



PX-0
PX-2

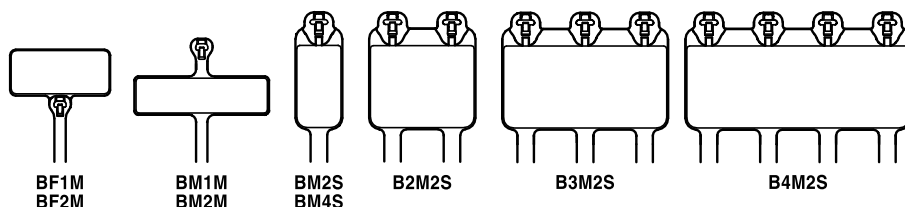
PX-10

Part Number	Color	Description	Std. Pkg. Qty.	Std. Ctn. Qty.
PX-0	Black	Permanent marking pen – regular tip.	12	144
PX-2	Red	Permanent marking pen – regular tip.	12	144
PX-10	White	Marking pen for black or other dark colored parts – regular tip.	12	300



Dome-Top® Barb Ty Marker and Flag Ties Halogen-Free**

- Natural nylon material for indoor use
- Weather resistant material has greater resistance to damage caused by ultraviolet light – indoor or outdoor use
- Used to fasten and identify bundles at the same time
- Stainless steel locking barb provides consistent performance, reliability, and infinite adjustability through entire bundle range
- Can be marked with Panduit® marker pens on the previous page or computer printable labels
- Custom imprinting with text, symbols, or trademarks available using Panduit Custom Hot Stamping Service
- Curved tip is easy to pick up from flat surfaces and allows faster initial threading to speed installation



Part Number	Marker Type	Length		Width		Thickness		Marker Write-On Area		Max. Bundle Dia.		Min. Loop Tensile Str.		Recommended Installation Tool	Std. Pkg. Qty.	Std. Ctn. Qty.
		In.	mm	In.	mm	In.	mm	In.	mm	In.	mm	Lbs.	N			

Nylon 6.6

Miniature Cross Section

BF1M-C	Flag	4.6	117	0.095	2.4	0.046	1.2	0.36 x 0.81	9.1 x 20.6	.90	23	18	80	GTS-E, GS2B, PTS, PPTS, STS2	100	1000
BF2M-C	Flag	8.3	211	0.095	2.4	0.046	1.2	0.36 x 0.81	9.1 x 20.6	2.00	51	18	80		100	1000
BM1M-C	Wrap	4.2	107	0.095	2.4	0.046	1.2	0.29 x 1.09	7.4 x 27.7	.90	23	18	80		100	1000
BM2M-C	Wrap	7.9	201	0.095	2.4	0.046	1.2	0.29 x 1.09	7.4 x 27.7	2.00	51	18	80		100	1000

Standard Cross Section

BM2S-C	Wrap	8.0	203	0.185	4.7	0.045	1.2	0.49 x 0.91	12.4 x 23.1	2.00	51	50	222	GTS-E, GS2B, GTH-E, GS4H, PTS, PTH, PPTS, STS2, STH2	100	1000
BM4S-C	Wrap	15.1	384	0.185	4.7	0.052	1.3	0.50 x 2.13	12.7 x 54.1	4.00	102	50	222		100	1000
B2M2S-D	Wrap	8.0	203	0.185	4.7	0.045	1.2	1.15 x 0.91	29.2 x 23.1	2.00	51	50	222		500	2500
B3M2S-TL	Wrap	8.0	203	0.185	4.7	0.045	1.2	1.81 x 0.91	46.0 x 23.1	2.00	51	50	222		250	2500
B4M2S-TL	Wrap	8.0	203	0.185	4.7	0.045	1.2	2.47 x 0.91	62.7 x 23.1	2.00	51	50	222		250	2500

Weather Resistant Nylon 6.6

Miniature Cross Section

BF1M-M0	Flag	4.6	117	0.095	2.4	0.046	1.2	0.36 x 0.81	9.1 x 20.6	.90	23	18	80	GTS-E, GS2B, PTS, PPTS, STS2	1000	25000
BF2M-M0	Flag	8.3	211	0.095	2.4	0.046	1.2	0.36 x 0.81	9.1 x 20.6	2.00	51	18	80		1000	25000
BM1M-M0	Wrap	4.2	107	0.095	2.4	0.046	1.2	0.29 x 1.09	7.4 x 27.7	.90	23	18	80		1000	25000
BM2M-M0	Wrap	7.9	201	0.095	2.4	0.046	1.2	0.29 x 1.09	7.4 x 27.7	2.00	51	18	80		1000	25000

Standard Cross Section

BM2S-D0	Wrap	8.0	203	0.185	4.7	0.045	1.2	0.49 x 0.91	12.4 x 23.1	2.00	51	50	222	GTS-E, GS2B, GTH-E, GS4H, PTS, PTH, PPTS, STS2, STH2	500	10000
BM4S-D0	Wrap	15.1	384	0.185	4.7	0.052	1.3	0.50 x 2.13	12.7 x 54.1	4.00	102	50	222		500	5000
B2M2S-D0	Wrap	8.0	203	0.185	4.7	0.045	1.2	1.15 x 0.91	29.2 x 23.1	2.00	51	50	222		500	2500
B3M2S-TL0	Wrap	8.0	203	0.185	4.7	0.045	1.2	1.81 x 0.91	46.0 x 23.1	2.00	51	50	222		250	2500
B4M2S-TL0	Wrap	8.0	203	0.185	4.7	0.045	1.2	2.47 x 0.91	62.7 x 23.1	2.00	51	50	222		250	2500

**All Panduit® cable ties (with the exception of TEFZEL ■ and HALAR ▲) are halogen-free per IEC Specification 61249-2-21.

B1.
Cable Ties
and ToolsB2.
Cable
AccessoriesB3.
Stainless Steel
Cable Ties,
Tools and
AccessoriesC1.
Wiring
DuctC2.
Abrasion
ProtectionD1.
Terminals
and
FerrulesE1.
Labeling
SystemsE2.
LabelsE3.
Permanent
IdentificationF.
Part
Number
Index

Features and Benefits – Parallel-Entry Cable Ties

Parallel-entry cable ties limit exposure to sharp edges and protect workers’ arms/hands. The ties are designed with a low profile head to avoid snags and reduce overall bundle size.

Contour-Ty® Cable Ties

Fully enclosed head for consistent strength

Fully rounded edges on head and strap

Outside teeth and smooth round edges protect cable jacket – ideal for high vibration applications

Curved tip threads easily and installs faster

Rounded tip and aggressive grip for faster initial threading

Hyper-V™ Cable Ties

Design provides for an optional threading position that allows releasable, temporary bundling

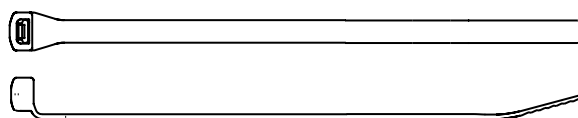
Fixed and flexible 2-wedge locking design

Tip bending serrations and threading hole facilitate installations in confined spaces



Contour-Ty® Cable Ties – Nylon 6.6 Halogen-Free**

- For indoor use
- Unique design prevents wire and cable damage
- Low profile head avoids snags and reduces overall bundle size
- Outside teeth and smooth round edges protect cable jacket – ideal for high vibration applications
- Parallel-entry limits exposure to sharp edges and protects workers' arms/hands
- Fully enclosed head for consistent strength
- Curved tip is easy to pick up from flat surfaces and allows faster initial threading to speed installation
- UL Listed for use in plenum or air handling spaces per NEC
- Note: Nylon 6.6 cable ties in natural and colors meet the testing requirements of SAE Aerospace Standard AS23190 and the dimensional requirements of SAE Aerospace Standard AS33671



	Length		Width		Thickness		Max. Bundle Dia.		Min. Loop Tensile Str.		Recommended Installation Tool	Std. Pkg. Qty.	Std. Ctn. Qty.
Part Number	In.	mm	In.	mm	In.	mm	In.	mm	Lbs.	N			
Miniature Cross Section – Plenum-Rated													
CBR1M-M	4.1	104	0.098	2.5	0.038	1.0	1.00	25	18	80	GTS-E, GS2B, PTS, PPTS, STS2	1000	50000
CBR1.5M-M	5.6	142	0.098	2.5	0.042	1.1	1.50	38	18	80		1000	50000
CBR2M-M	7.2	183	0.098	2.5	0.042	1.1	2.00	51	18	80		1000	25000
Intermediate Cross Section – Plenum-Rated													
CBR1.5I-M	5.9	150	0.140	3.6	0.040	1.0	1.50	38	40	178	GTS-E, GS2B, PTS, PPTS, STS2	1000	25000
CBR3I-M	10.4	264	0.140	3.6	0.052	1.3	3.00	76	40	178		1000	10000
CBR4I-M	13.6	345	0.140	3.6	0.052	1.3	4.00	102	40	178		1000	10000
Standard Cross Section – Plenum-Rated													
CBR2S-M	7.6	193	0.190	4.8	0.044	1.1	2.00	51	50	222	GTS-E, GS2B, GTH-E, GS4H, PTS, PTH, PPTS, STS2, STH2	1000	10000
CBR3S-M	10.8	274	0.190	4.8	0.052	1.3	3.00	76	50	222		1000	5000
CBR4S-M	14.0	356	0.190	4.8	0.052	1.3	4.00	102	50	222		1000	5000
Heavy-Standard Cross Section – Plenum-Rated													
CBR2HS-D	8.0	203	0.250	6.4	0.058	1.4	2.00	51	85	378	GTH-E, GS4H, GS4EH, PTH, STH2, ST3EH	500	5000
Light-Heavy Cross Section – Plenum-Rated													
CBR4LH-TL	14.6	371	0.300	7.6	0.070	1.8	4.00	102	120	534	GTH-E, GS4H, GS4EH, PTH, STH2, ST3EH	250	2500
CBR6LH-C	20.9	531	0.300	7.6	0.070	1.8	6.00	152	120	534		100	2000

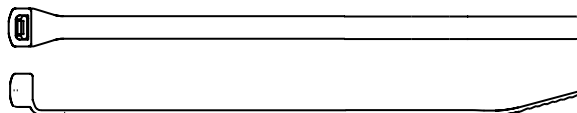
**All Panduit® cable ties (with the exception of TEFZEL ■ and HALAR ▲) are halogen-free per IEC Specification 61249-2-21.

B1.
Cable Ties
and ToolsB2.
Cable
AccessoriesB3.
Stainless Steel
Cable Ties,
Tools and
AccessoriesC1.
Wiring
DuctC2.
Abrasion
ProtectionD1.
Terminals
and
FerrulesE1.
Labeling
SystemsE2.
LabelsE3.
Permanent
IdentificationF.
Part
Number
Index



Contour-Ty® Cable Ties – Weather Resistant Nylon 6.6 Halogen-Free**

- Greater resistance to damage caused by ultraviolet light – indoor or outdoor use
- Unique design prevents wire and cable damage
- Low profile head avoids snags and reduces overall bundle size
- Outside teeth and smooth round edges protect cable jacket – ideal for high vibration applications
- Parallel-entry limits exposure to sharp edges and protects workers' arms/hands
- Fully enclosed head for consistent strength
- Curved tip is easy to pick up from flat surfaces and allows faster initial threading to speed installation



Part Number	Length		Width		Thickness		Max. Bundle Dia.		Min. Loop Tensile Str.		Recommended Installation Tool	Std. Pkg. Qty.	Std. Ctn. Qty.
	In.	mm	In.	mm	In.	mm	In.	mm	Lbs.	N			
Miniature Cross Section													
CBR1M-M0	4.1	104	0.098	2.5	0.038	1.0	1.00	25	18	80	GTS-E, GS2B, PTS, PPTS, STS2	1000	50000
CBR1.5M-M0	5.6	142	0.098	2.5	0.042	1.1	1.50	38	18	80		1000	50000
CBR2M-M0	7.2	183	0.098	2.5	0.042	1.1	2.00	51	18	80		1000	25000
Intermediate Cross Section													
CBR1.5I-M0	5.9	150	0.140	3.6	0.040	1.0	1.50	38	40	178	GTS-E, GS2B, PTS, PPTS, STS2	1000	25000
CBR3I-M0	10.4	264	0.140	3.6	0.052	1.3	3.00	76	40	178		1000	10000
CBR4I-M0	13.6	345	0.140	3.6	0.052	1.3	4.00	102	40	178		1000	10000
Standard Cross Section													
CBR2S-M0	7.6	193	0.190	4.8	0.044	1.1	2.00	51	50	222	GTS-E, GS2B, GTH-E, GS4H, PTS, PTH, PPTS, STS2, STH2	1000	10000
CBR3S-M0	10.8	274	0.190	4.8	0.052	1.3	3.00	76	50	222		1000	5000
CBR4S-M0	14.0	356	0.190	4.8	0.052	1.3	4.00	102	50	222		1000	5000
Heavy-Standard Cross Section													
CBR2HS-D0	8.0	203	0.250	6.4	0.058	1.4	2.00	51	85	378	GTH-E, GS4H, GS4EH, PTH, STH2, ST3EH	500	5000
Light-Heavy Cross Section													
CBR4LH-TL0	14.6	371	0.300	7.6	0.070	1.8	4.00	102	120	534	GTH-E, GS4H, GS4EH, PTH, STH2, ST3EH	250	2500
CBR6LH-C0	20.9	531	0.300	7.6	0.070	1.8	6.00	152	120	534		100	2000

**All Panduit® cable ties (with the exception of TEFZEL ■ and HALAR ▲) are halogen-free per IEC Specification 61249-2-21.



Contour-Ty® Cable Ties – Heat Stabilized and Flame Retardant Nylon 6.6 Halogen-Free**

- Heat stabilized material for high temperature applications up to 239°F (115°C) – indoor use
- Flame retardant material has a flammability rating of UL 94V-0 – indoor use
- Unique design prevents wire and cable damage
- Low profile head avoids snags and reduces overall bundle size
- Outside teeth and smooth round edges protect cable jacket – ideal for high vibration applications
- Parallel-entry limits exposure to sharp edges and protects workers' arms/hands
- Fully enclosed head for consistent strength
- Curved tip is easy to pick up from flat surfaces and allows faster initial threading to speed installation



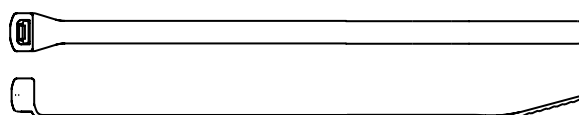
CBR2S-M30



CBR2S-M39



CBR3S-M69

B1.
Cable Ties
and ToolsB2.
Cable
AccessoriesB3.
Stainless Steel
Cable Ties,
Tools and
AccessoriesC1.
Wiring
DuctC2.
Abrasion
ProtectionD1.
Terminals
and
FerrulesE1.
Labeling
SystemsE2.
LabelsE3.
Permanent
IdentificationF.
Part
Number
Index

Part Number	Length		Width		Thickness		Max. Bundle Dia.		Min. Loop Tensile Str.		Recommended Installation Tool	Std. Pkg. Qty.	Std. Ctn. Qty.
	In.	mm	In.	mm	In.	mm	In.	mm	Lbs.	N			

Heat Stabilized Nylon 6.6 – Black Miniature Cross Section

CBR1M-M30	4.1	104	0.098	2.5	0.038	1.0	0.90	25	18	80	GTS-E, GS2B, PTS, PPTS, STS2	1000	50000
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Intermediate Cross Section

CBR1.5I-M30	5.9	150	0.140	3.6	0.040	1.0	1.50	38	40	178	GTS-E, GS2B, PTS, PPTS, STS2	1000	25000
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Standard Cross Section

CBR2S-M30	7.6	193	0.190	4.8	0.044	1.1	2.00	51	50	222	GTS-E, GS2B, GTH-E, GS4H, PTS, PTH, PPTS, STS2, STH2	1000	10000
CBR3S-M30	10.8	274	0.190	4.8	0.052	1.3	3.00	76	50	222		1000	5000
CBR4S-M30	14.0	356	0.190	4.8	0.052	1.3	4.00	102	50	222		1000	5000

Light-Heavy Cross Section

CBR4LH-TL30	14.6	371	0.300	7.6	0.070	1.8	4.00	102	120	534	GTH-E, GS4H, GS4EH, PTH, STH2, ST3EH	250	2500
CBR6LH-C30	20.9	531	0.300	7.6	0.070	1.8	6.00	152	120	534		100	2000

Heat Stabilized Nylon 6.6 – Natural Standard Cross Section

CBR2S-M39	7.6	193	0.190	4.8	0.044	1.1	2.00	51	50	222	GTS-E, GS2B, GTH-E, GS4H, PTS, PTH, PPTS, STS2, STH2	1000	10000
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Heat Stabilized Nylon 6.6 – Natural Ivory Standard Cross Section

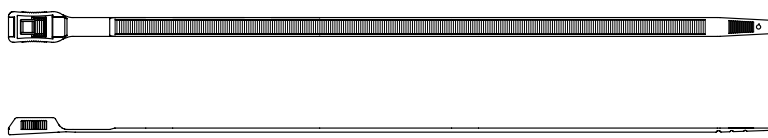
CBR3S-M69	10.8	274	0.190	4.8	0.052	1.3	3.00	76	50	222	GTS-E, GS2B, GTH-E, GS4H, PTS, PTH, PPTS, STS2, STH2	1000	5000
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Note: UL Recognized, UL Listed, and CSA Certified, except CBR3S-M69.

**All Panduit® cable ties (with the exception of TEFZEL ■ and HALAR ▲) are halogen-free per IEC Specification 61249-2-21.

Hyper-V™ In-Line Cable Ties – Weather Resistant Nylon 6.6 Halogen-Free**

- Fixed and flexible two-wedge locking design provides a low threading force
- Teeth on both sides of cable tie body provide additional locking strength and improved flexibility to conform to irregular bundle shapes such as securing cables to cable tray systems
- Releasable head position for temporary bundling of cables prior to final locking; no need to replace ties when adding cables/wires to the bundle
- Teeth on full length of body support a wide range of bundle diameters
- Bending serrations on the tip of the tie allow the tip to be easily formed into an arc, enabling installer to “fish” the tie around the bundle in a confined space
- Threading hole in the tip of the tie allows an installer to hook the tip with a simple device to pull the tie through spaces with limited access
- In-Line tie design for parallel-entry of the tie into head resulting in a lower profile on cable bundles
- Complementary mounts shown below



Part Number	Length		Width		Thickness		Max. Bundle Dia.		Min. Loop Tensile Str.		Recommended Installation Tool	Std. Pkg. Qty.	Std. Ctn. Qty.
	In.	mm	In.	mm	In.	mm	In.	mm	Lbs.	N			
HV965-C0	10.4	265	0.350	8.9	0.076	1.9	2.60	65	160	710	GTH-E, GS4H, GS4EH, PTH, STH2, ST3EH, STHV	100	1000
HV9100-C0	14.4	367	0.350	8.9	0.076	1.9	3.90	100	160	710		100	1000
HV9150-C0	20.7	525	0.350	8.9	0.076	1.9	5.90	150	160	710		100	1000
HV9250-C0	33.1	841	0.350	8.9	0.076	1.9	9.80	250	160	710		100	1000

Hyper-V™ Cable Tie Mounts Halogen-Free**

- Tie mount has retaining tab within window to hold cable tie in position when pre-installed in the mount; low profile design keeps bundle close to mounting surface
- Masonry mounts are used to secure wire, cable, or tubing to masonry surfaces
- For outdoor use



HVTM



HVMPM

Part Number	Material	Color	Mounting Method	Std. Pkg. Qty.	Std. Ctn. Qty.
Tie Mounts					
HVTM-06-C0	Weather Resistant Nylon 6.6	Black	#12 (M6) screw	100	500
Masonry Mounts					
HVMPM-08-C0	Impact Modified Weather Resistant Nylon 6.6	Black	Fir tree hole mount	100	500

**All Panduit® cable ties (with the exception of TEFZEL ■ and HALAR ▲) are halogen-free per IEC Specification 61249-2-21.

Parallel-Entry Cable Ties

Material Chart

Part Number	Color	Panduit Suffix
Nylon 6.6	Natural	✓
Weather Resistant Nylon 6.6	Black	0
Heat Stabilized Nylon 6.6	Black	30
Heat Stabilized Nylon 6.6	Natural	39
Flame Retardant Nylon 6.6	Natural (Ivory)	69

✓Denotes Panduit® Natural Nylon 6.6 (no suffix).

Panduit® Cable Tie Approvals



Logo (Symbol)	Agency	Spec/Approval	Requirement	Applicable Products
	Underwriters Laboratories, Inc.	File E56854 and MH29590	ZODZ(7), ZODZ2(8), ALKW	Most miniature, intermediate, standard, light-heavy and heavy cross section ties are Recognized or Listed in the US and Canada
	Canadian Standards Association	File 031212	C22.2 No. 18.5-02 under the category "Fittings – Positioning Devices"	Most miniature, intermediate, standard, light-heavy and heavy cross section ties are Recognized or Listed in the US and Canada
	Conformity European	Low Voltage Directive 2014/35/EU. Pan-Ty and Dome-Top Barb Ty cable ties also meet the requirements from EN62275	CE Marking is required for products sold within the European Union. CE Marking Directives specify the minimum performance of these products. Applying the CE mark signifies compliance with essential requirements of specific directives.	All cable tie products
	ABS (American Bureau of Shipping)	14-HS1245078-PDA	Steel Vessel Rules 1-1-4/7.7, 4-8-4/21.9.3 MODU Rules 4-3-3/5.9.1	PLT Series, BT Series
	Bureau Veritas	Cert 05968/E0 BV File ACE 14/601/01	Bureau Veritas Rules for the Classification of Steel Ships	PLT Series, BT Series, PRT Series, CBR Series
	Det Norske Veritas	E-12385	Det Norske Veritas' Rules for Classification of Ships and Mobile Offshore Units	PLT Series, PLC Series, PLM Series, PRT Series, PLWP Series, PRWP Series, PRST Series
	Lloyd's Register of Shipping	15/600006 (E1)	Lloyd's Register Type Approval	PLT Series, BT Series, SST Series
	NRC (Nuclear Regulatory Commission)	NRC 10CFR50	Quality Assurance Criteria for Nuclear Plants and Reprocessing Plants	All cable tie products
	Plenum-Rated	Panduit logo	Panduit® symbol indicates that the cable ties represented are suitable for use in plenum or air handling spaces in accordance with Sec. 300.22(C) and (D) of the National Electrical Code and Rules 12-010 (3), (4) and (5) and 12-020 of the Canadian Electrical Code, Part I.	Halar (702Y) and select Nylon 6.6 cable ties as noted throughout catalog
	US Military Aerospace Standard	QPL-AS23190	SAE spec AS23190	See Military Cross Reference

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Cable Tie Selection and Specification Guidelines

Selecting the Proper Cable Tie Material for Your Application

By using the information on our material selection chart on pages B1.2 and B1.3 as a guide, the user will be better equipped to select the best cable tie and material suited 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 guide. Sample cable ties should be tested under actual end-use conditions to determine the correct cable tie for the application.

To select the optimum cable tie for a specific application, the chart on pages B1.2 and B1.3 can be used as a 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. Next, review the other criteria by scanning in a vertical direction on the chart and then make your final selection.

Example No. 1

Application	Selection
The application requires high radiation (2 x 10 ⁸ rads) resistance and excellent resistance to hydrocarbons.	The best choice is PEEK, TEFZEL ■, or HALAR ▲. The price is higher than other materials, but all have high ratings in resistance to radiation and hydrocarbons.

Example No. 2

Application	Selection
The application requires a low cost material, good ultraviolet resistance, and good resistance to acid rains.	The best choice is Weather Resistant Polypropylene. Price is medium, the UV rating is 6, and the acid resistance rating is 9.

Weathering

Over a period of time, ultraviolet light (a component of sunlight) attacks 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, polypropylene, and acetal 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 outdoor life of plastic products, but it does not totally eliminate the destructive effects of the light. Some plastics, such as TEFZEL ■ or HALAR ▲, are intrinsically very resistant to ultraviolet light and do not require stabilizing additives.

Weathering Test Methods

In order to monitor the effects of ultraviolet light and the effectiveness of ultraviolet stabilizers, Panduit, 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 D 1435 Standard Practice for Outdoor Weathering of Plastics, and allows the material to be affected by not only ultraviolet light, but by all other outdoor elements as well. Although this may more closely approximate an actual application, two drawbacks do exist. The period of time required to produce property decay and material failure may be quite long, and varying adverse chemical environments cannot be tested.

Accelerated Weather Aging

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

- ASTM D 1499, Operating Light and Water Exposure Apparatus (Carbon-Arc type) for exposure to plastics
- ASTM G 154-04, Operating Light and Water Exposure (Fluorescent UV Condensation type) for exposure of non-metallic materials

The condition specified in ASTM D 1499 utilizes a water spray and a carbon arc to simulate natural sunshine. The test chamber is operated 20 hrs./day with a two-hour cycle of 108 minutes of simulated sunshine and twelve 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.

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▲ HALAR is a registered trademark of Solvay Solexis

Continues on next page

Weathering (continued)

The test chamber per ASTM G 154-04 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 effects of other common chemicals, such as road salt, are also evaluated in this chamber.

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

Material Failure Testing

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

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

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

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

Panduit 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.

Five cable tie materials have superior ultraviolet light resistance: TEFZEL■, HALAR▲, Weather Resistant Acetal, Nylon 12 and Stainless Steel.

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 That Affect the Life of a Cable Tie

Factor	Effect on Cable Tie Life
Chemicals	Applications which have chemicals present can reduce the life of a tie. This is the most detrimental factor to the life of a tie.
Bundle Diameter	As the bundle diameter is reduced, the tie has more bending stress. A thick strap on a small bundle 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 a cable tie.
Moisture	High humidity plus high temperature 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	
Material, Color (Part Number Suffix)	Years*
Polypropylene, Green (109)	1
Nylon 6.6, Natural (No suffix)	1 – 2
Flame Retardant Nylon 6.6, Black (60)	1 – 2
Flame Retardant Nylon 6.6, Ivory (69)	1 – 2
Heat Stabilized Nylon 6.6, Natural (39)	1 – 2
PEEK, Polyetheretherketone, Translucent Brown (71)	1 – 2
Heat Stabilized Nylon 6.6, Black (30)	4 – 5
Weather Resistant Polypropylene, Black (100)	7 – 9
Weather Resistant Nylon 6.6, Black (0 and 00)	7 – 9
Heat Stabilized Weather Resistant Nylon 6.6, Black (300)	7 – 9
Weather Resistant Nylon 12, Black (120)	12 – 15
TEFZEL■, Aqua Blue (76)	>15
HALAR▲, Maroon (702Y)	>15
Weather Resistant Acetal, Black	>20
Stainless Steel	>30

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

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▲ HALAR is a registered trademark of Solvay Solexis

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Flammability**Flammability**

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

UL 94 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 (seven days at 158°F, 70°C). The test requires the placement of a precisely controlled flame under a vertically supported specimen for a ten second period. The controlled flame is removed and the duration of flaming combustion of the specimen is recorded. When the flaming combustion of the specimen extinguishes, it is immediately subjected to an additional controlled flame exposure. After the additional ten seconds of exposure, the controlled flame is removed, and the duration of flaming combustion of the specimen is 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

Requirements:

- None of the specimens will burn with flaming combustion for more than ten seconds after either application of the controlled flame
- The total flaming combustion time will not exceed 50 seconds for the ten controlled flame applications (two controlled flame applications for each of the five specimens)
- None of the specimens will burn with flaming or glowing combustion up to the holding clamp
- None of the specimens will drip flaming particles that ignite the dry absorbent surgical cotton located 12 inches (305mm) below the test specimen
- None of the specimens will exhibit glowing combustion that persists for more than 30 seconds after the second removal of the controlled flame

Materials Classed 94V-1

Requirements:

- None of the specimens will burn with flaming combustion for more than 30 seconds after either application of the controlled flame
- The total flaming combustion time will not exceed 250 seconds for the ten controlled flame applications (two controlled flame applications for each of the five specimens)
- None of the specimens will burn with flaming or glowing combustion up to the holding clamp
- Specimens may drip flaming particles which burn only briefly, and may not ignite the dry absorbent surgical cotton located 12 inches (305mm) below the test specimen
- None of the specimens will exhibit glowing combustion that persists for more than 60 seconds after the second removal of the controlled flame

Materials Classed 94V-2

Requirements:

- None of the specimens will burn with flaming combustion for more than 30 seconds after either application of the controlled flame
- The total flaming combustion time will not exceed 250 seconds for the ten controlled flame applications (two controlled flame applications for each of the five specimens)
- None of the specimens will burn with flaming or glowing combustion up to the holding clamp
- Specimens may drip flaming particles which burn only briefly, and may ignite the dry absorbent surgical cotton placed 12 inches (305mm) below the test specimen
- None of the specimens will exhibit glowing combustion that persists for more than 60 seconds after the second removal of the controlled flame

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. If any of the specimens burn to the 100mm mark, an additional 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

Continues on next page

Flammability (continued)

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 the ten samples or no more than one of the twenty specimens have burned to the 100mm mark
- Average Time of Burning (ATB):
- Average Extent of Burning (AEB):

$$ATB, s = \frac{\sum_0^N [time(sec) - 30(sec)]}{N}$$

N = Number of specimens tested
Rounded to the nearest 5 seconds

$$AEB, mm = \frac{\sum_0^N [10(mm) - unburned length(mm)]}{N}$$

N = Number of specimens tested
Rounded to the nearest 5mm

Table B – Flammability Ratings

Materials	Part Number Suffix	UL 94	ASTM D 635
Nylon 6.6, Natural	None	94V-2 @ .71mm	AEB = 20mm, ATB = 5 seconds
Weather Resistant Nylon 6.6, Black (Meets Mil. Spec.)	00	94V-2 @ .71mm	AEB = 20mm, ATB = 5 seconds
Weather Resistant Nylon 6.6, Black*	0	94V-2** @ .71mm	AEB = 20mm, ATB = 5 seconds
Heat Stabilized Nylon 6.6, Black	30	94V-2 @ .71mm	AEB = 20mm, ATB = 5 seconds
Heat Stabilized Nylon 6.6, Natural	39	94V-2 @ .71mm	AEB = 20mm, ATB = 5 seconds
Heat Stabilized Weather Resistant Nylon 6.6, Black	300	94V-2 @ .71mm	AEB = 20mm, ATB = 5 seconds
Flame Retardant Nylon 6.6, Black	60	94V-0 @ .81mm	AEB = 15mm, ATB = < 5 seconds
Flame Retardant Nylon 6.6, Natural (Ivory)	69	94V-0 @ .81mm	AEB = 15mm, ATB = < 5 seconds
PEEK, Polyetheretherketone, Translucent Brown	71	94V-0 @ 1.5mm	—
Metal Detectable Nylon 6.6, Blue	86	94 HB @ .71mm	AEB = 20mm, ATB = 5 seconds
Weather Resistant Nylon 12, Black	120	94 HB @ 1.6mm	Avg. Burning Rate 1.6cm/min.
Polypropylene, Green	109	94 HB @ .94mm	Avg. Burning Rate 2cm/min.
Weather Resistant Polypropylene, Black	100	94 HB @ .94mm	Avg. Burning Rate 2cm/min.
TEFZEL■, Aqua Blue	76	94V-0 @ 1.5mm	AEB = 15mm, ATB = < 5 seconds
HALAR▲, Maroon	702Y	94V-0 @ .18mm	AEB = 15mm, ATB = < 5 seconds
Weather Resistant Acetal, Black	DT Prefix	94 HB @ 1.5mm	Avg. Burning Rate, 2.8cm/min

*UL Recognized cable ties meet stated ratings. **UL Recognized -0 parts

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▲HALAR is a registered trademark of Solvay Solexis

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® to determine the acceptability for use in various areas of nuclear power plants (for radiation exposure accumulated over a 40 year life). See Cable Tie Selection Chart (pages B1.2 and B1.3) for radiation resistance rating.

Moisture

Many plastics when exposed to high relative humidity absorb water and, as such, the tensile strength of the material can change dramatically. Nylon 6.6 when exposed to 100% relative humidity, will absorb as much as 8.5% water which will reduce tensile strength by 50% when compared to a dry cable tie. Polypropylene, HALAR▲, Type 12 Nylon, TEFZEL■, Acetal and PEEK are low water absorbing materials and, as such, the effect of water is minimal. See Cable Tie Selection Chart (pages B1.2 and B1.3) for moisture absorption.

Proper Storage

Nylon 6.6 is a hygroscopic material (affected by atmospheric moisture variations). The optimum storage requirement for Nylon 6.6 cable ties is 73°F (± 15°F) and 50% RH (relative humidity) in sealed containers. Improper storage, especially in cold/dry conditions can result in moisture loss, which impedes cable tie performance. Panduit packaging provides Nylon 6.6 cable ties conditioned to 2.5% moisture added by weight in heavy-wall, polyethylene heat-sealed bags.

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Radiation/Moisture/Temperature/Tensile Strength (continued)**Temperature**

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

The maximum continuous use temperature, is based on the UL Relative Thermal Index (mechanical without impact) as determined by UL per UL 746B. It is one indicator of a material's ability to retain a particular physical property when exposed to elevated temperatures over an extended period of time. It is based on the assumption that there is no loading, no chemical attack, and impact-free condition. The continuous use temperature range for cable tie materials are listed in the Cable Tie Selection Chart (pages B1.2 and B1.3).

Low temperature exposure will also make most plastics more brittle during the exposure, but little property loss occurs when the material is returned to room temperatures. The minimum installation temperatures for cable tie materials are listed in the Cable Tie Selection Chart (pages B1.2 and B1.3).

Tensile Strength

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

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 inch (25.4mm) per minute. 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 the Cable Tie Selection Chart (pages B1.2 and B1.3).

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■ TEFZEL is a registered trademark of E.I. du Pont de Nemours and Company.

Table C – Chemical Resistance Table

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 variables as chemical concentrations, temperature, stress and ultraviolet light. This table is an excellent guideline for the selection of the best cable tie material for various cable tie environments. It should be noted that the exposure for this chemical resistance chart is at 70°F (21°C).

Resistance of Panduit® cable tie materials to chemical attack at 70°F (21°C)

A = Excellent	¹ = Pitting occurs under some conditions
B = Satisfactory	² = Attack may occur if sulfuric acid present
C = Slight Attack	Aq. = Aqueous
D = Attacked	C.S. = Cold Saturated
— = Not Tested	

Materials	Percent Concentration	Nylon 6.6*	Nylon 12	Polypropylene	TEFZEL ■	HALAR ▲	PEEK	304 Stainless Steel	316 Stainless Steel
Acetaldehyde	90	B	—	C	A	A	A	—	—
Acetic Acid	97	D	D	A	A	A	A	A	A
Acetic Acid	10	C	B	A	A	A	—	A	A
Acetic Anhydride	90	—	B	A	A	A	—	A	A
Acetone	100	A	A	A	A	A	A	A	A
Acetophenone	100	—	—	B	A	A	—	A	A
Acetylene	100	—	—	A	A	A	A	A	A
Aluminum Chloride	10	B	A	A	A	A	A		
Aluminum Fluoride	10	B	A	A	A	A	—		
Aluminum Hydroxide	Aq. C.S.	—	A	A	A	A	—	A	A
Aluminum Potassium Sulfate	10	B	A	A	A	A	—	A ¹	A ¹
Ammonia	All	—	A	A	A	A	A	A	A
Ammonium Carbonate	1 to 5	—	A	—	A	A	—	A	A
Ammonium Chloride	10 to 25	D	A	A	A	A	A	A	A
Ammonium Hydroxide	10	A	—	—	A	A	A	—	—
Ammonium Nitrate	100	—	A	A	A	A	A	A	A ¹
Ammonium Sulfate	10	—	A	A	A	A	A	E ¹	A
Amyl Acetate	100	—	—	C	A	A	A	A	A
Aniline	100	—	B	A	A	A	A	A	A
Antimony Trichloride	All	D	—	A	A	A	A	A	A
Arsenic Acid	1 to 80	—	—	A	A	A	—	A	A
Barium Carbonate	All	—	A	A	A	A	—	A	A
Barium Chloride	All	—	A	A	A	A	—	A ¹	A
Barium Sulfate	All	—	A	A	A	A	—	A	A
Barium Sulfide	All	—	A	A	A	A	—	A	A
Benzene	100	A	A	C	A	A	A	A	A
Benzoic Acid	100	D	A	A	A	A	A	A	A
Benzoyl Chloride	100	—	—	C	A	A	—	—	—
Benzyl Alcohol	100	—	—	A	A	A	A	—	—
Boric Acid	All	D	A	A	A	A	A	B	—
Bromine	100	D	D	D	A	A	D	D	D
Butadiene	100	—	—	C	A	A	—	A	A
Butane	100	—	A	A	A	A	A	A	A
Butanediol	100	—	—	A	A	A	—	—	—
Butyl Acetate	100	—	A	C	A	A	A	—	—
N. Butyl Alcohol	100	—	A	A	A	A	A	A	A
Butyl Phthalate	100	—	—	A	A	A	—	—	—
Butyraldehyde	100	—	—	A	A	A	—	—	—
Butyric Acid	10 to 100	D	—	A	A	A	—	A	A
Calcium Carbonate	Aq. C.S.	—	—	A	A	A	A	A	A
Calcium Chlorate	Aq. C.S.	—	—	A	A	A	—	A	A
Calcium Chloride	5	C	A	A	A	A	A	A ¹	A ¹
Calcium Hydroxide	50	—	—	A	A	A	A	A	A
Calcium Hypochlorite	2	D	—	A	A	A	A	A ¹	A ¹
Calcium Nitrate	50	—	A	A	A	A	A	—	—
Calcium Sulfate	2	C	—	A	A	A	A	A	A
Carbon Tetrachloride	100	A	A		A	A	A	A	A
Carbon Tetrachloride	Aq. 10	—	—	—	—	A	—	C ¹	A ¹
Chlorine	Dry	—	D	D	A	A	D	C	C

*Includes all 6.6 Nylons (weather resistant, heat stabilized, and flame retardant).

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▲ HALAR is a registered trademark of Solvay Solexis

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Table C – Chemical Resistance Table (continued)

Materials	Percent Concentration	Nylon 6.6*	Nylon 12	Polypropylene	TEFZEL■	HALAR▲	PEEK	304 Stainless Steel	316 Stainless Steel
Chlorine	Wet	—	D	C	A	A	D	D	D
Chloroacetic Acid	10 to 50	D	—	A	A	A	A	D	C
Chlorobenzene	100	—	C	A	A	A	A	—	—
Chloroform	100	A	C	C	A	A	A	A	A
Chlorosulphonic Acid	10 to 100	D	D	D	B	A	D	D	D
Chromic Acid	10 to 50	D	D	A	A	A	A	C	C
Citric Acid	10 to 50	B	B	A	—	A	A	A	A
Copper Chloride	1 to 10	D	—	A	A	A	A	A ¹ -D	A ¹ -C ¹
Copper Cyanide	Aq. C.S.	—	—	A	A	A	A	A	A
Copper Nitrate	50	—	—	A	A	A	A	A	A
Cresol	100	D	D	—	A	A	—	A	A
Crotonaldehyde	100	—	—	A	A	A	—	—	—
Cyclohexane	100	—	A	C	A	A	A	A	—
Cyclohexanol	100	—	A	A	A	A	A	A	—
Cyclohexanone	100	—	A	C	A	A	A	A	—
Dibutyl Phthalate	100	—	—	A	A	A	A	—	—
Dichloroethane	100	—	—	A	—	A	A	A	A
Dichloroethylene	100	—	—	C	A	A	—	—	—
Diesel Fuel	100	—	A	C	A	A	A	A	A
Diethyl Ether	100	—	A	A	A	A	A	A	A
Diglycolic Acid	Aq. C.S.	—	—	A	A	A	—	—	—
Diisobutyl Ketone	100	—	—	A	A	A	—	—	—
Dimethyl Amine	100	—	—	A	A	A	—	—	—
Dimethyl Formamide	100	—	A	A	A	A	A	A	—
Dimethyl Sulfate	100	—	—	C	A	A	—	—	—
Diethyl Phthalate	100	—	—	A	A	A	A	A	—
1,4-Dioxane	100	—	B	C	A	A	A	A	—
Ethyl Acetate	100	A	A	B	A	A	A	A	A
Ethyl Alcohol	100	A	A	A	A	A	A	A	A
Ethyl Chloride	100	—	—	C	A	A	—	A	A
Ethylene Chloride	100	A	C	C	A	A	—	A	A
Ethylene Glycol	100	A	A	A	A	A	A	A	A
Ethylene Oxide	100	—	—	C	A	A	A	—	—
Fatty Acids	100	—	—	A	A	A	—	—	—
Ferric Chloride	50	D	—	A	A	A	C	D	D
Ferric Hydroxide	All	—	—	A	A	A	—	A	A
Ferric Nitrate	All	—	—	A	A	A	A	A	A
Ferrous Chloride	Aq. C.S.	D	—	A	A	A	A	D	C
Ferrous Sulfate	10	—	—	A	A	A	A	A ¹	A
Fluorine (Dry)	100	—	—	D	A	—	D	D	D
Formaldehyde	40	A	B	A	A	A	A	A ¹	A
Formic Acid	All	D	D	A	A	A	C	A	A
Freons	100	A	—	—	A	A	A	—	—
Fuel Oil	100	—	A	—	A	A	A	A	A
Furfural	100	A	—	—	A	A	—	A	A
Gallic Acid	Aq. C.S.	—	—	—	A	A	—	A	A
Gasoline	100	A	—	C	A	A	A	A	A
Glycerin	100	—	A	A	—	A	—	A	A
Glycolic Acid	40	D	—	A	A	A	—	—	—
Heptane	100	—	A	A	A	A	A	A	A
Hexane	100	—	A	A	A	A	A	A	A
Hydrobromic Acid	All	D	D	A	A	A	D	D	D
Hydrochloric Acid	All	D	D	A	A	A	A	D	D
Hydrocyanic Acid	All	—	D	A	A	A	A	C	C
Hydrofluoric Acid	All	D	D	A	A	A	D	D	D
Hydrofluorosilicic Acid	30	—	D	A	A	A	—	D	D
Hydrogen Peroxide	30	D	B	B	A	A	A	B	A
Hydrogen Sulfide	Dry	—	—	A	A	A	A	A	A
Hydrogen Sulfide	Wet	D	—	A	A	A	—	C ²	A ²
Hydroquinone	100	—	—	A	A	A	—	—	—
Iodine	100	—	—	A	A	A	C	D	D
Iodoform	100	—	—	—	A	A	—	A	A
Isopropyl Alcohol	100	A	A	A	A	A	A	A	A
Jet Fuel	100	A	—	A	A	A	A	A	A

*Includes all 6.6 Nylons (weather resistant, heat stabilized, and flame retardant).

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Table C – Chemical Resistance Table (continued)

Materials	Percent Concentration	Nylon 6.6*	Nylon 12	Polypropylene	TEFZEL ■	HALAR ▲	PEEK	304 Stainless Steel	316 Stainless Steel
Lactic Acid	10	A	B	A	A	A	—	A	A
Lanolin	10	A	A	A	A	A	—	A	A
Lead Acetate	Aq. C.S.	—	—	A	A	A	A	A	A
Linseed Oil	100	A	A	A	A	A	—	A	A
Magnesium Carbonate	Aq. C.S.	—	A	A	A	A	—	A	A
Magnesium Chloride	Aq. C.S.	C	A	A	A	A	A	A ¹	A ¹
Magnesium Nitrate	Aq. C.S.	—	A	A	A	A	—	A	A
Maleic Acid	100	—	—	A	A	A	A	—	—
Malic Acid	Aq. C.S.	—	—	A	A	A	—	A	A
Mercuric Chloride	Dilute	—	A	A	A	A	A	D	D
Mercury	100	—	A	A	A	A	A	A	A
Methyl Alcohol	100	A	A	A	A	A	A	A	A
Methyl Bromide	100	—	—	D	A	A	—	—	—
Methyl Chloride	100	—	—	C	A	A	—	—	A
Methyl Chloroform	100	A	—	C	A	A	—	—	—
Methyl Ethyl Ketone	100	—	A	C	A	A	A	A	A
Methyl Isobutyl Ketone	100	A	—	C	A	A	—	A	A
Methylene Chloride	100	C	D	C	A	A	A	A	A
Naphtha	100	—	—	A	A	A	A	A	A
Naphthalene	100	—	B	A	A	A	A	A	A
Nickel Chloride	Aq. C.S.	—	A	A	A	A	A	A ¹	A ¹
Nickel Sulfate	Aq. C.S.	—	A	A	A	A	A	A ¹	A ¹
Nitric Acid	10 to 30	D	D	A	A	A	—	A	A
Nitric Acid	30 to 68	D	D	D	B	A	C	A	A
Nitro Benzene	100	—	C	C	A	A	A	A	A
Nitro Methane	100	A	—	—	A	A	—	—	—
Nitrous Acid	5	—	—	—	A	A	A	A	A
Oleic Acid	100	—	C	A	A	A	A	A	A
Oxalic Acid	10	—	C	A	A	A	A	A	A
Oxygen	All	—	—	A	A	A	A	—	—
Paraffin	100	A	A	A	A	A	—	A	A
Perchloroethylene	100	—	—	C	A	A	A	A	A
Petroleum Ether	100	—	A	A	A	A	A	A	A
Phenol	90	D	D	A	A	A	D	A	A
Phosphoric Acid	10	D	D	A	A	A	A	A	A
Phosphorous Pentoxide	100	—	D	A	A	A	A	—	—
Phosphorous Trichloride	100	—	D	C	A	A	—	A	A
Phthalic Acid	50	—	—	C	A	A	—	A	A
Picric Acid	1	—	—	A	A	A	A	A	A
Potassium Borate	1	—	—	A	A	A	—	—	—
Potassium Bromide	Aq. C.S.	—	—	A	A	A	A	A ¹	A ¹
Potassium Carbonate	Aq. C.S.	—	C	A	A	A	A	A	A
Potassium Chlorate	Aq. C.S.	—	B	A	A	A	A	A	A
Potassium Chloride	5	—	A	A	A	A	A	A ¹	A ¹
Potassium Dichromate	Aq. C.S.	—	D	A	A	A	A	A	A
Potassium Ferrocyanide	25	—	—	A	A	A	A	A	A
Potassium Hydroxide	30	C	—	A	A	A	A	C	C
Potassium Iodide	Aq. C.S.	—	A	A	—	A	—	A	A
Potassium Nitrate	Aq. C.S.	—	A	A	A	A	A	A	A
Potassium Perchlorate	1	—	—	A	A	A	—	—	—
Potassium Permanganate	5	D	D	A	A	A	A	A	A
Potassium Persulfate	All	—	—	A	A	A	—	—	—
Potassium Sulfate	Aq. C.S.	—	A	A	A	A	A	A	A
Potassium Sulfide	Aq. C.S.	—	—	A	A	A	A	A	A
Propionic Acid	50	—	—	A	A	A	—	—	—
Propyl Alcohol	100	A	—	A	A	A	A	A	A
Pyridine	100	—	A	C	A	A	A	C	C
Sea Water	100	—	A	A	A	A	—	A ¹	A ¹
Silver Chloride	Aq. C.S.	—	A	A	A	A	—	D	D
Silver Nitrate	10	—	A	A	A	A	A	A	A
Sodium Acetate	Aq. C.S.	A	—	A	A	A	A	A ¹	A
Sodium Benzoate	Aq. C.S.	—	—	A	A	A	—	—	—
Sodium Bicarbonate	Aq. C.S.	A	A	A	A	A	A	A	A

*Includes all 6.6 Nylons (weather resistant, heat stabilized, and flame retardant).

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Table C – Chemical Resistance Table (continued)

Materials	Percent Concentration	Nylon 6.6*	Nylon 12	Polypropylene	TEFZEL■	HALAR▲	PEEK	304 Stainless Steel	316 Stainless Steel
Sodium Bisulfate	10	—	—	A	A	A	—	A	A
Sodium Bisulfite	Aq. C.S.	—	B	A	A	A	—	A	A
Sodium Borate	Aq. C.S.	—	—	A	A	A	—	A	A
Sodium Carbonate	2	A	A	A	A	A	A	A	A
Sodium Chlorate	25	—	C	A	A	A	A	A	A
Sodium Chloride	10	A	A	A	A	A	A	A ¹	A ¹
Sodium Chromate	Aq. C.S.	D	—	A	A	A	—	A	A
Sodium Fluoride	5	—	—	A	A	A	—	A ¹	A ¹
Sodium Hydroxide	10	A	A	A	A	A	A	A	A
Sodium Hypochlorite	5	B	C	A	A	A	A	C ¹	A ¹
Sodium Hyposulfite	Aq. C.S.	—	—	—	A	A	—	A	A
Sodium Nitrate	5	A	A	A	A	A	A	A	A
Sodium Perborate	Aq. C.S.	—	B	A	A	A	—	—	C
Sodium Perchlorate	10	—	—	—	A	A	—	A	A
Sodium Phosphate	5	—	A	A	A	A	—	A	A
Sodium Sulfate	5	—	A	A	A	A	A	A	A
Sodium Sulfide	5	—	A	A	A	A	A	A ¹	A
Sodium Thiosulfate	25	—	A	A	A	A	—	A ²	A ²
Stannic Chloride	Aq. C.S.	D	—	A	A	A	A	D	C
Stannous Chloride	Aq. C.S.	—	A	A	A	A	A	C	B
Stearic Acid	100	—	C	A	A	A	—	A	A
Succinic Acid	100	—	B	A	A	A	—	—	—
Sulfur	100	—	A	A	A	A	A	B	C
Sulfur Dioxide	All	D	—	C	A	A	A	A	A
Sulfuric Acid	5	D	C	A	A	A	C	C	A
Sulfuric Acid	50	D	D	A	A	A	D	D	C
Sulfuric Acid	Concentrate	D	D	C	A	A	D	C	C
Sulfurous Acid	10	A	—	A	A	A	A	C ¹	A ¹
Tannic Acid	10	—	A	A	A	A	A	A	A
Tartaric Acid	50	—	B	A	A	A	A	A	A
Tetrahydrofuran	100	—	C	C	A	A	A	A	A
Toluene	100	A	A	C	A	A	A	A	A
Trichloroacetic Acid	10	D	—	B	A	A	—	D	D
Trichloroethylene	100	—	D	C	A	A	A	A ¹	A ¹
Turpentine	100	—	B	D	A	A	A	A	A
Urea	50	—	A	A	A	A	—	—	—
Vinyl Acetate	100	—	—	A	A	A	—	—	—
Xylene	100	A	—	D	A	A	A	A	A
Zinc Chloride	70	D	A	A	A	A	A	A	A
Zinc Nitrate	Aq. C.S.	—	A	A	A	A	—	A	A
Zinc Sulfate	Aq. C.S.	—	A	A	A	A	A	A	A

*Includes all 6.6 Nylons (weather resistant, heat stabilized, and flame retardant).

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Manual Cable Tie Installation Tools



Panduit® provides the most preferred hand-operated tools in the industry. These versatile tools can be used for production, maintenance, or construction applications.

Panduit cable tie installation tools promote worker safety, help reduce downtime, improve productivity and provide the lowest total installed cost. As with all Panduit products, quality in design and production along with customer service excellence, are assured.



Tool Highlights:

- **Tool controlled tension and cut-off**
 - Ergonomic tools are durable, lightweight, and easy to use
 - Manual tools
 - Pneumatic tools
- **Installer controlled tension and cut-off**
 - Large selection of tools available for complete range of Panduit cable ties
 - Cost-effective alternative for small volume applications

If you are missing information from this catalog, please refer to the Full line catalog posted on panduit.com.

Selection Guide – Hand Tools, Accessories, and Kits

Hand Tools

Manual

Tool Controlled Tension and Cut-Off

Recommended usage: under 50,000 ties/year

Typical applications: Low to medium volume tie usage in OEM, MRO, or construction

Cross Section	Tool Part Number				
	GTS-E	GS2B	GTH-E	GS4H	GS4EH
SM	X				
M	X	X			
I	X	X			
S	X	X	X	X	
HS			X	X	
LH			X	X	X
H			X	X	X
EH					X

Cross Sections

SM = Subminiature
M = Miniature
I = Intermediate
S = Standard
HS = Heavy-Standard
LH = Light-Heavy
H = Heavy
EH = Extra-Heavy

Installer Controlled Tension and Cut-Off

Recommended usage: under 10,000 ties/year

Typical applications: MRO or construction

Cross Section	Tool Part Number			
	GTS-E	GS2B	GTH-E	GS4H
M	X			
I	X			
S	X	X		
HS		X		
LH		X	X	X
H		X	X	X
EH			X	

Pneumatic

Recommended usage: under 250,000 ties/year

Typical applications: Medium to high volume tie usage in OEM

Cross Section	Tool Part Number	
	PTS	PTH
M	X	
I	X	
S	X	
HS	X	X
LH		X
H		X
EH		X

Accessories/Kits

Manual

Part Number	For Tool
KGTS-ETL	GTS-E, GTH-E
TTLK3	GS2B, GS4H

Pneumatic

Part Number	For Tool
KPTSTL	PTS, PTH
TTLK3	PPTS

Tool Tension
Locking KitsBlade
Replacement Kits

Tool Holster

Pneumatic
Hose Assembly,
Filter/Regulator
Adapter Fittings

KGTSBLD	GTS-E
KGTH-EBLD	GTH-E
K2-BLD2	GS2B
K4H-BLD	GS4H
K4EH-BLD	GS4EH

KGTSBLD	PTS
KPTHBLD	PTH
K2-BLD2	PPTS

GHH	GTS-E, GS2B, GTH-E, GS4H, GS4EH
-----	---------------------------------------

GHH	PTS, PPTS
-----	-----------

PPH10	PTS, PTH, PPTS
HS3X	
PHCAT	

Cable Tie Tools – Tool Controlled Tension and Cut-Off

- Used in production, maintenance, or construction applications
- Tool controlled tension provides flush cut-off and speeds installation to lower installed cost
- Lightweight and balanced
- Easy to change tension adjustment and easy to operate
- A combination of design, operation, and construction features, provides a long service life
- Replacement blades available
- No special maintenance required



Part Number	Used with Cable Ties	Weight		Part Features	Standards	Std. Pkg. Qty.
		Oz.	g			
GTS-E	SM, M, I, S	10.4	294	Ergonomic design with impact resistant resin housing, narrow nose, cushion handle and low impact cutoff.		1
GS2B	M, I, S	11.5	327	Metal tool with a durable powder coat finish.	QPL per Mil. Std. SAE AS81306 and Mil. Spec. SAE AS90387 Mil. Spec. Part Number MS90387-1	1
GTH-E	S, HS, LH, H	11.9	337	Ergonomic design with impact resistant resin housing, narrow nose, and cushion handle.		1
GS4H	S, HS, LH, H	16.0	454	Metal tool with a durable powder coat finish.	QPL per Mil. Std. SAE AS81306 and Mil. Spec. SAE AS90387 Mil. Spec. Part Number MS90387-2	1
GS4EH	LH, H, EH	16.0	454	Metal tool with a durable powder coat finish.	QPL per Mil. Std. SAE AS81306 and Mil. Spec. SAE AS90387 Mil. Spec. Part Number MS90387-4	1

Cable tie cross section sizes: SM = Subminiature, M = Miniature, I = Intermediate, S = Standard, HS = Heavy-Standard, LH = Light-Heavy, H = Heavy, EH = Extra-Heavy.

Pneumatic Hand Tools – Tool Controlled Tension and Cut-Off

- Pneumatic, push button operation tensions and cuts off excess tie in a fraction of a second
- Durable, lightweight, ergonomic design is easy to operate and designed to reduce operator fatigue
- Easy to change tension adjustment
- Operates on non-lubricated air, without special maintenance



Part Number	Used with Cable Ties	Weight		Part Features	Std. Pkg. Qty.
		Oz.	g		
PTS	SM, M, I, S	17.3	490	Ergonomic design with impact resistant resin housing and black knob; replacement parts can be part of a scheduled maintenance program.	1
PTH	S, HS, LH, H	32.0	907	Ergonomic design with impact resistant resin housing and red knob; replacement parts can be part of a scheduled maintenance program.	1

Note: All tools require the PPH10 hose and PL289N1 filter/regulator for proper operation.
Cable tie cross section sizes: SM = Subminiature, M = Miniature, I = Intermediate, S = Standard, HS = Heavy-Standard, LH = Light-Heavy, H = Heavy, EH = Extra-Heavy.

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Pneumatic Tool Accessories



HS3X



PHCAT

Part Number	Used with Installation Tool	Part Features	Std. Pkg. Qty.
HS3X	PTS, PPTS, PTH	HS3X is a filter/Regulator 20 micron (max) element, 0.5 bar pressure drop @ 6.3 bar pressure and 1000 litres per minute flow @ 6.3 bar.	1
PPH10	PTS, PPTS, PTH	10.0' (3m) hose assembly (regulator to tool); includes a 1/8" NPT male connector (to regulator) and 1/8" female quick disconnect (to tool).	1
PHCAT	PTS, PPTS, PTH	Adapter fitting for 10.0' (3m) hose (PPH10) to regulator with 1/4" NPT female output port, features 1/8" NPT female connection (to hose) and 1/4" NPT male connection (to regulator).	1

Hand Tool Accessories:

Tool Tension Locking Kits

- For applications requiring a locking device on either the selector knob (one cross section size and tension only) or tension level adjustment (but allow cross section size changes)



KGTS-ETL

Part Number	Used with Installation Tool	Contents	Std. Pkg. Qty.
KGTS-ETL	GTS-E, GTH-E	Lockout cap and screw.	1
KPTSTL	PTS, PTH	Lockout cap and screw.	1
TTLK3	GS2B, GS4H, PPTS	Selection locking clip and screws.	1

Blade Replacement Kits

- Blade replacement kits can be part of a user's scheduled maintenance plan or used when cut-offs are not clean and crisp



KGTSBLD

Part Number	Used with Installation Tool	Contents	Std. Pkg. Qty.
KGTSBLD	GTS-E, PTS	Threadlocker, screw, washer and replacement blade.	1
KGTH-EBLD	GTH-E	Threadlocker, screw, and replacement blade.	1
K2-BLD2	GS2B, PPTS	Threadlocker, screws, and replacement blade.	1
K4H-BLD	GS4H	Threadlocker, screws, and replacement blade.	1
K4EH-BLD	GS4EH	Threadlocker, screw, and replacement blade.	1
KPTHBLD	PTH	Threadlocker, screw, and replacement blade.	1

Hand Tool Holster

- Durable leather construction holster with rivets and extra tie-down strap to hold tool in place – easily fits on belt



Part Number	Used with Installation Tool	Color	Std. Pkg. Qty.
GHH	GTS-E, GS2B, GTH-E, GS4H, GS4EH, PTS, PPTS, ST3EH	Black	1

Automatic Cable Tie Installation Systems



The complete line of Panduit® automatic cable tie installation systems offers a superior solution for high volume harness, assembly, fastening and packaging applications. These ergonomic systems increase productivity, provide consistent performance, and reduce activities that lead to repetitive motion injuries. A variety of tool options provide users with flexible solutions for their unique application needs.



System Highlights

Multiple systems improve productivity, reliability, and versatility:

- Install a cable tie in less than one second
- Multiple cable tie styles and sizes for maximum productivity
- Optional software for advanced system monitoring and performance
- Recommended for annual usage of over 250,000 cable ties/year
- Typical applications: High volume OEM/contract manufacturing
- Robotic integration capabilities
- Data interface software
- Ethernet enabled dispenser

Combined, these innovations improve reliability, maximize productivity, and lower installed costs. As with all Panduit products, quality in design and production along with customer service excellence, are assured.

Note: Recommended for annual usage of over 250,000 cable ties/year. Typical applications: high volume OEM/contract manufacturing.

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Selection Guide – Automatic Installation Systems and Reel-Fed Cable Ties

PAT1M/PAT1.5M Systems

Tool Head for use with MINIATURE Cross Section

Part Number	Description
PAT1M4.0	For miniature cross section up to .82" (21mm) bundle diameter.
PAT1.5M4.0	For miniature cable ties up to 1.31" (33mm) bundle diameter.
PAT1M4.0-BT	For miniature cross section up to .82" (21mm) bundle diameter. For use with Barb Ty.
PAT1.5M4.0-BT	For miniature cable ties up to 1.31" (33mm) bundle diameter. For use with Barb Ty.

Dispenser

Part Number	Description
PDM4.0	Stationary dispenser.
PDS-DI	Data interface accessory – software and interface card.

Transfer Hose

Part Number	Description
PHM1	3.2' (1m) transfer hose.
PHM2	6.5' (2m) transfer hose.
PHM3	10.0' (3m) transfer hose.
PHM4	13.1' (4m) transfer hose.

Optional System Accessories

Part Number	Description
PDH10-37	Air hose.
HS3X	Filter/regulator.
PATMBM	Bench mount and foot pedal.

PAT2S/PAT3S Systems

Tool Head for use with STANDARD Cross Section

Part Number	Description
PAT2S	For standard cross section up to 2.00" (51mm) bundle diameter.
PAT3S	For standard cross section up to 2.75" (70mm) bundle diameter.

Dispenser

Part Number	Description
PDS	Stationary dispenser, PAT2S.
PD3S	Stationary dispenser, PAT3S.
PDS-DI	Dispenser and data interface software.

Transfer Hose

Part Number	Description
PHS2	6.5' (2m) transfer hose.
PHS3	10.0' (3m) transfer hose.

Dispenser Frame

Part Number	Description
PDSF	Dispenser frame, PAT2S.
PD3SF	Dispenser frame, PAT3S.

Optional System Accessories

Part Number	Description
PDH10-37	Air hose.
HS3X	Filter/regulator.
PATSBM	Bench mount and foot pedal for PAT2S and PAT3S.

Tool Head – Multiple sizes accommodate a wide variety of applications

- Ergonomic, lightweight design reduces operator fatigue and repetitive motion injuries – no counter balance required
- Right or left hand operation
- Durable, one-piece cable tie tip collector (for cut-off tips)
- Includes tension adjustment
- Built-in safety interlock prevents false triggering if anything obstructs jaw path



PAT1M-4.0



PAT1.5M4.0



PAT2S



PAT3S

Part Number	Max. Bundle Dia.		Dispenser/ Frame	Transfer Hose	Used with Cable Ties	Std. Pkg. Qty.
	In.	mm				
PAT1M4.0	0.82	21	PDM4.0	PHM1, PHM2, PHM3, PHM4	PLT1M-XMR	1
PAT1.5M4.0	1.31	33	PDM4.0		PLT1.5M-XMR	1
PAT1M4.0-BT	0.82	21	PDM4.0		BT1M-XMR	1
PAT1.5M4.0-BT	1.31	33	PDM4.0		BT1.5M-XMR	1
PAT2S	2.00	51	PDS/PDSF	PHS2, PHS3	PLT2S-VMR	1
PAT3S	2.75	70	PD3S/PD3SF		PLT3S-VMR	1

Dispensers

- Microprocessor based controller monitors system performance through a touch screen display (PDM4.0 only); provides production data and reporting, including error detection and cycle count for improved reliability
- Online HELP menu through LCD display in seven languages (English, Spanish, German, Italian, French, Czech, Japanese), is user-friendly for quick and simple training



PDM4.0



PDS/PD3S

Part Number	Used with Tool Head	Description	Std. Pkg. Qty.
PDM4.0	PAT1M4.0, PAT1.5M4.0, PAT1M4.0-BT, PAT1.5M4.0-BT	Stationary dispenser with electronic display. Online help menu. System operates on 65 psig (minimum) non-lubricated filtered air and 100 – 24 FAC/TP or 60 MHz.	1
PDS	PAT2S		1
PD3S	PAT3S		1

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PHM3

Part Number	Used with Tool Head	Part Description	Length		Std. Pkg. Qty.
			Ft.	m	
PHM1	PAT1M4.0, PAT1.5M4.0, PAT1M4.0-BT, PAT1.5M4.0-BT	Transfers cable tie and signal from dispenser to tool head; electrical connectors designed for easy attachment provide a reliable, secure connection.	3.2	1	1
PHM2			6.5	2	1
PHM3			10.0	3	1
PHM4			13.1	4	1
PHS2	PAT2S, PAT3S		6.5	2	1
PHS3			10.0	3	1

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Dispenser Frame



PDSF



PD3SF

Part Number	Used with Dispenser	Description	Std. Pkg. Qty.
PDSF	PDS (PAT2S)	Metal frame supports the PDS dispenser for PAT2S above the cable tie reel as ties are loaded into the dispenser; can be used as a freestanding unit or permanently mounted to a bench or cart.	1
PD3SF	PD3S (PAT3S)	Assembly holds cable tie reel and rewinds the packaging paper liner as cable ties are being loaded into the dispenser.	1

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Optional System Accessories:

Filter/Regulator and Air Supply Hose



HS3X

Part Number	Used with Dispenser	Description	Std. Pkg. Qty.
HS3X	PDM4.0, PDS	HS3X is a filter/Regulator 20 micron (max) element, 0.5 bar pressure drop @ 6.3 bar pressure and 1000 litres per minute flow @ 6.3 bar.	1
PDH10-37	PDM4.0, PDS	Air hose from filter/regulator to dispenser; 10.0' (3m) – includes standard air fittings.	1

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Optional System Accessories (continued):

Bench Mount



PATMBM

Part Number	Used with Tool Head	Description	Std. Pkg. Qty.
PATMBM	PAT1M4.0, PAT1.5M4.0, PAT1M4.0-BT, PAT1.5M4.0-BT	Allows hands-free operation for high volume usage. Includes bench mount fixture and foot pedal assembly.	1
PATSBM	PAT2S, PAT3S		1

Data Interface Software and Ethernet Enabled Dispenser

Panduit® exclusive Ethernet enabled dispenser and customized data interface software allow production personnel to monitor real-time data in a shop floor environment.

The Ethernet enabled dispenser provides a physical connection between the cable tie installation system and an Industrial Ethernet Network via an RJ45 connection and internal Ethernet card.

- Allows production and/or engineering personnel the capability to measure and track production performance such as job tracking, cycle counts, tool and dispenser serial numbers, and routine maintenance
- Provides the ability to send email notifications for specific system messages
- Data extraction and reporting capabilities on system performance through an exportable electronic log; helps identify operator training needs
- Ability to monitor alerts from remote desktop locations

Part Number	Used with Dispenser	Description	Std. Pkg. Qty.
PDS-DI	PDS	Ethernet enabled PDS dispenser and data interface software.	1

PAT/Robot Integration Kit

- Used with the PAT1M4.0, PAT1.5M4.0, PAT1M4.0-BT, and PAT1.5M4.0-BT tool heads
- Utilizes the PAT system electronic interface option, PDM-EI, to optimally integrate the PAT system to a robot for a completely automated cable tie installation process
- Significantly reduces labor costs while improving installation quality, reliability, and consistency



PATM4.0-RK



PATM-TT

Part Number	Components	Description	Std. Pkg. Qty.
PATM4.0-RK	Metallic housing	Includes a pneumatic trigger actuator for remote cable tie installation and a mounting bolt pattern to ease PAT tool integration with a robot end effector for a robust and accurate grip.	1
	Transfer hose strain relief kit	Strain relief to maintain transfer hose bend radius reducing tie misfeeds due to sharp hose bend radii during robot motion; also sold separately under part number PATM-RKS (includes two 1-foot strain relief tubes with fastening cable ties).	
	Quick start guides	Provides easily understood electrical, network, and mechanical installation instructions minimizing the robot integrator's design time and simplifying the integration process.	
	Best practices document	List of best practices when integrating the PAT system to a robot optimizing system performance and productivity.	
PATM-TT	Test tool with rubber jaws	This test tool is used during robot cable tie installation programming, providing a safe method to debug robot software without damaging actual PAT tools (test tool is not provided with the PAT/Robot Integration Kit).	1
PATM-RKS	Transfer hose strain relief kit	Strain relief to maintain transfer hose bend radius reducing cable tie misfeeds due to sharp hose bend radii during robot motion; kit is also included on the PATM-RK kit or sold separately (includes two 1-foot strain relief tubes with fastening cable ties).	1



PLT-XMR Reel-Fed Cable Ties Halogen-Free**

- Continuously molded cable ties (5,000 ties/reel) provide continuous feeding for high productivity and reduced downtime due to fewer reel changes
- All-nylon, one-piece locking ties with 18 lbs. minimum loop tensile strength in miniature cross section
- Available in a variety of colors and materials
- Reel-fed cable ties in Nylon 6.6 material (except black) are UL Listed for use in plenum or air handling spaces per NEC



Part Number	Tie Style	Material	Color	Max. Bundle Dia.		Length		Width		Min. Loop Tensile Str.	
				In.	mm	In.	mm	In.	mm	Lbs.	N

Reel-Fed Cable Ties for PAT1M4.0 System

PLT1M-XMR*	All-Nylon	Nylon 6.6	Natural	0.82	21	4.0	102	0.100	2.5	18	80
PLT1M-XMR0	All-Nylon	Weather Resistant Nylon 6.6	Black	0.82	21	4.0	102	0.100	2.5	18	80
PLT1M-XMR00*	All-Nylon	Weather Resistant Nylon 6.6	Black	0.82	21	4.0	102	0.100	2.5	18	80
PLT1M-XMR30	All-Nylon	Heat Stabilized Nylon 6.6	Black	0.82	21	4.0	102	0.100	2.5	18	80

Reel-Fed Cable Ties for PAT1.5M4.0 System

PLT1.5M-XMR	All-Nylon	Nylon 6.6	Natural	1.31	33	5.6	142	0.100	2.5	18	80
PLT1.5M-XMR0	All-Nylon	Weather Resistant Nylon 6.6	Black	1.31	33	5.6	142	0.100	2.5	18	80
PLT1.5M-XMR00*	All-Nylon	Weather Resistant Nylon 6.6	Black	1.31	33	5.6	142	0.100	2.5	18	80
PLT1.5M-XMR30	All-Nylon	Heat Stabilized Nylon 6.6	Black	1.31	33	5.6	142	0.100	2.5	18	80

*Military grade weather resistant material.

Note: PLT_XMR cable ties (natural, 00, and colors) are Class 2 Mil. Spec. per AS23190 and AS33671.

Please visit www.panduit.com for additional colors

**All Panduit® cable ties (with the exception of TEFZEL ■ and HALAR ▲) are halogen-free per IEC Specification 61249-2-21.

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PLT-VMR Reel-Fed Cable Ties Halogen-Free**

- Continuously molded cable ties (2,500 ties/reel) provide continuous feeding for high productivity and reduced downtime due to fewer reel changes
- All-nylon, one-piece locking ties with 50 lbs. minimum loop tensile strength in standard cross section for larger bundles up to 1.94" (49mm) diameter
- Reel-fed cable ties in Nylon 6.6 material (Natural color) are UL Listed for use in plenum or air handling spaces per NEC



Part Number	Tie Style	Material	Color	Max. Bundle Dia.		Length		Width		Min. Loop Tensile Str.	
				In.	mm	In.	mm	In.	mm	Lbs.	N

Reel-Fed Cable Ties for PAT2S System

PLT2S-VMR	All-Nylon	Nylon 6.6	Natural	1.94	49	8.1	206	0.190	4.8	50	222
PLT2S-VMR0	All-Nylon	Weather Resistant Nylon 6.6	Black	1.94	49	8.1	206	0.190	4.8	50	222
PLT2S-VMR30	All-Nylon	Heat Stabilized Nylon 6.6	Black	1.94	49	8.1	206	0.190	4.8	50	222

Reel-Fed Cable Ties for PAT3S System

PLT3S-VMR	All-Nylon	Nylon 6.6	Natural	2.75	70	11.3	287	0.190	4.8	50	222
PLT3S-VMR30	All-Nylon	Heat Stabilized Nylon 6.6	Black	2.75	70	11.3	287	0.190	4.8	50	222

Note: PLT_VMR Nylon 6.6 cable ties are Class 2 Mil. Spec. per AS23190 and AS33671.
**All Panduit® cable ties (with the exception of TEFZEL ■ and HALAR ▲) are halogen-free per IEC Specification 61249-2-21.



BT-XMR Reel-Fed Cable Ties Halogen-Free**

- Continuously molded cable ties (5,000 ties/reel) provide continuous feeding for high productivity and reduced downtime due to fewer reel changes
- Reel-fed cable ties with exclusive stainless steel locking barb and 30 lbs. minimum loop tensile strength permit higher tension for demanding applications
- Metal locking barb and tie body design provide greater bundle tightness, reducing both rotational and lateral movement of the tie
- Reel-fed cable ties in Nylon 6.6 material (Natural color) are UL Listed for use in plenum or air handling spaces per NEC



BT_XMR



BT_XMR (0, 30)



Part Number	Tie Style	Material	Color	Max. Bundle Dia.		Length		Width		Min. Loop Tensile Str.	
				In.	mm	In.	mm	In.	mm	Lbs.	N
Reel-Fed Cable Ties for PAT1M4.0-BT System											
BT1M-XMR	Barbed	Nylon 6.6	Natural	0.82	21	4.0	102	0.100	2.5	30	133
BT1M-XMR0	Barbed	Weather Resistant Nylon 6.6	Black	0.82	21	4.0	102	0.100	2.5	30	133
BT1M-XMR30	Barbed	Heat Stabilized Nylon 6.6	Black	0.82	21	4.0	102	0.100	2.5	30	133
Reel-Fed Cable Ties for PAT1.5M4.0-BT System											
BT1.5M-XMR	Barbed	Nylon 6.6	Natural	1.31	33	5.6	142	0.100	2.5	30	133
BT1.5M-XMR0	Barbed	Weather Resistant Nylon 6.6	Black	1.31	33	5.6	142	0.100	2.5	30	133
BT1.5M-XMR30	Barbed	Heat Stabilized Nylon 6.6	Black	1.31	33	5.6	142	0.100	2.5	30	133

**All Panduit® cable ties (with the exception of TEFZEL ■ and HALAR ▲) are halogen-free per IEC Specification 61249-2-21.

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Cable Accessories



Panduit® provides a comprehensive offering of cable accessories. These accessories are engineered to speed installation and lower installed costs for routing and managing cable. Panduit cable accessories are designed and manufactured to meet applicable quality standards including International, UL, Military, ISO and Aerospace.



- **Largest selection of mounts, clips, and clamps for cable management**
- **Panduit cable ties and accessories can be used in a variety of applications and environments, providing the optimal cable management solution**
- **Installation methods include adhesive backed, user applied adhesive, screws, rivets or push barb**



Panduit mounts, clips, and clamps are manufactured in an environment committed to design innovation, high quality, and knowledgeable service to our customers. Adhesive backed mounts provide a strong adhesive bond for long-term reliability. Cable clips offer a one-piece solution to save time and reduce inventory. Harness board accessories speed the routing and forming of cable bundles in the fabrication of a harness. They hold bundles at a uniform height above the board and are ideal for use with Panduit manual and automatic cable tie tooling. All Panduit cable accessories are halogen-free per IEC Specification 61249-2021.

If you are missing information from this catalog, please refer to the Full line catalog posted on panduit.com.

Cable Accessories Products Overview

Adhesive Backed Cable Tie Mounts

Pages B2.4 – B2.5



- Uses premium Panduit adhesive for a long-term, reliable bond
- Adhesive backing allows routing of wires and cables where mounting holes cannot be drilled
- Mounts should be used with Panduit cable ties for a complete wire routing solution

Screw Applied Cable Tie Mounts

Pages B2.6



- Screw/rivet applied cable tie mounts offer a countersunk or through hole in the mount through which a screw or rivet can be secured
- Offered in a wide selection of specialty materials for resistance to severe conditions such as heat, radiation, chemicals, and outdoor environments
- Available in styles ranging from low profile mounts with integral push-rivet to high stability cradle mounts for Extra-Heavy strength cable ties

Other Cable Tie Mounts

Pages B2.7 – B2.16



- Push mount designs lock into a hole in a metallic panel or in a blind masonry hole
- Edge clip mounts secure to a panel edge using metal barbs that dig into panel surface
- Stud mounts secure onto threaded bolts by screwing or hammering on the bolt
- Connector rings can be used to attach adjacent bundles to provide spacing and prevent vibration damage

Cable Accessories Products Overview

Quick Build Harness Board Systems

Pages B2.17 – B2.19



- The modular, reusable solution consists of 1' X 1' (305mm x 305mm) grid tiles and specially designed, repositionable accessories that improve the productivity of wire harness assembly builds by up to 18%.
- The Quick-Build™ Accessories are more effective than nail, magnetic, or snap-in routing fixture methods.
- Bring savings on unique variable information such as: Labor Cost/Hour, Number of Board Variations / Harness Configurations and Average Number of Changeovers for each Harness Annually

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Harness Board Accessories

Pages B2.19 – B2.22



- Allow an installer to quickly configure a specific arrangement of wires, to aid in required wire bundling and termination
- Hold wire bundles at a uniform height from a harness board to ease manual or automatic cable tie installation
- Aid in the proper routing and forming of wire bundles to help maintain end product consistency, reduce expensive rework and maximize safety

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4-Way Adhesive Backed Cable Tie Mounts

- Allow cable tie entry from all four sides
- Available in multiple sizes to match application load requirements
- Produced 2-up or 4-up for fast and easy liner removal to speed installation



ABM1M 0.50" x 0.50"	ABMM 0.75" x 0.75"	ABM2S 1.00" x 1.00"	ABM100 1.00" x 1.00"	ABM112 1.12" x 1.12"	ABM3H 1.50" x 1.50"	ABM4H 2.00" x 2.00"
Accepts M Cable Ties	Accepts M, I Cable Ties	Accepts M, I, S Cable Ties	Accepts M, I, S Cable Ties	Accepts M, I, S Cable Ties	Accepts M, I, S, HS, LH, H, HLM Cable Ties	Accepts M, I, S, HS, LH, H, HLM Cable Ties
ABM1M-A-C 100 pc/pkg	-	-	ABM200-A-C** 100 pc/pkg	ABM112-A-C 100 pc/pkg	ABM3H-A-L 100 pc/pkg	ABM4H-A-L 100 pc/pkg
ABM1M-AT-C 100 pc/pkg	-	-	ABM100-AT-C 100 pc/pkg	ABM112-AT-C 100 pc/pkg	ABM3H-AT-L 100 pc/pkg	ABM4H-AT-L 100 pc/pkg
-	-	-	ABM100-AT-C0 100 pc/pkg	ABM112-AT-C0 100 pc/pkg	-	-
-	ABMM-A-C	ABM2S-A-C*^ 100 pc/pkg	-	-	-	-
-	ABMM-AT-C 100 pc/pkg	ABM2S-AT-C 100 pc/pkg	-	-	-	-
-	ABMM-AT-C0 100 pc/pkg	ABM2S-AT-C0 100 pc/pkg	-	-	-	-
-	ABMM-D 500 pc/pkg	-	-	-	-	-
-	-	ABM2S-S6-D 500 pc/pkg	-	-	-	-
-	-	-	ABM100-S6-C 100 pc/pkg	ABM112-S6-C 100 pc/pkg	ABM3H-S6-T 200 pc/pkg	ABM4H-S6-T 200 pc/pkg
-	-	-	ABM100-S6-C69 100 pc/pkg	ABM112-S6-C69 100 pc/pkg	-	-

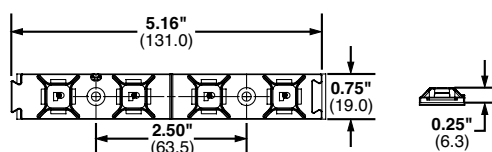
*Also available in Gray ABS material with Rubber Adhesive for Indoor environments. Part number ABM2S-A-C14

^Also available in Ivory ABS material with Rubber Adhesive for Indoor environments. Part number ABM2S-A-C15

**Also available in Ivory Nylon 6.6 material with Rubber Adhesive for Indoor environments. Part number ABM100-A-C15

cUL^{us} ABMQ Multiple Bridge Adhesive Backed Cable Tie Mounts

- Multiple cable tie bridges on one mount speeds installation of cable bundles by reducing the number of mounts applied
- Dovetail connection system provides alignment and a joining method to expand routing capabilities
- V-groove allows for easy separation into two mounts with two bridges each for separate applications
- 4-way cable tie bridges allow cable bundles to be secured perpendicular to the mount for even spacing or inline to secure a bundle in multiple places
- Large adhesive surface area provides long-term reliability and keeps product in place despite heavy load or high stress



Part Number	Used with Cable Ties	Material	Color	Environment	Mounting Method	Std. Pkg. Qty.	Std. Ctn. Qty.
ABMQS-A-C	M, I, S	ABS	White	Indoors	Rubber	100	1000
ABMQS-A-Q		ABS	White	Indoors	Rubber	25	250
ABMQS-A-Q20		ABS	Black	Indoors	Rubber	25	250

cUL^{us} ABMQ Mounts for Installation with Screws or User-Supplied Adhesive

ABMQS-S6-C	M, I, S	ABS	White	Indoors/High Temp	Two #6 M3 Screws	100	1000
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‡Cable tie cross section sizes: M = Miniature, I = Intermediate, and S = Standard.

cUL^{us} Tie Mounts – Applied with User Supplied Adhesives

- Solid flat bottom surface provides maximum holding area
- Material: Nylon 6.6
- For indoor use only



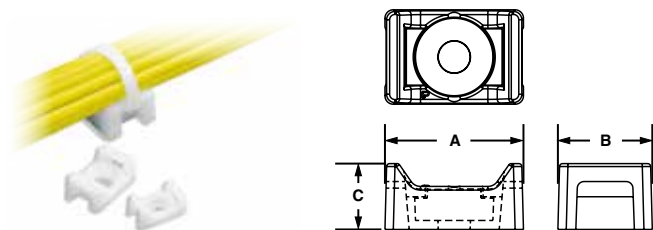
Part Number	Used with Cable Ties‡	Color	Mounting Method	Std. Pkg. Qty.	Std. Ctn. Qty.
TM1A-C	M	Natural	User Supplied Adhesive	100	1000
TM2A-C	M, I, S			100	500
TM3A-C	M, I, S, HS, LH			100	500

‡Cable tie cross section sizes: M = Miniature, I = Intermediate, S = Standard, HS = Heavy Standard and LH = Light-Heavy.

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**Cable Tie Mounts – Screw Applied**

- Unique cradle design provides maximum stability for the cable bundle
- Low profile design keeps bundle close to mounting surface
- Wide selection of materials available
- UL Recognized except HVTM and SGTM series



Part Number	Used with Cable Ties‡	Counterbore Diameter		Length A		Width B		Height C		Mounting Method	Std. Pkg. Qty.	Std. Ctn. Qty.
		In.	mm	In.	mm	In.	mm	In.	mm			
TM1S4-C	M	0.23	5.7	0.51	13.0	0.32	8.0	0.23	5.8	#4 (M2.5) Screw	100	500
TM1S6-C		0.28	7.0	0.51	13.0	0.32	8.0	0.23	5.8	#6 (M3) Screw	100	500
TM2S6-C	M, I, S	0.29	7.1	0.63	16.0	0.43	10.8	0.28	7.0	#6 (M3) Screw	100	500
TM2S8-C		0.33	8.4	0.63	16.0	0.43	10.8	0.28	7.0	#8 (M4) Screw	100	500
TM3S8-C	M, I, S, LH	0.32	8.1	0.86	21.9	0.61	15.5	0.37	9.4	#8 (M4) Screw	100	500
TM3S10-C		0.38	9.7	0.86	21.9	0.61	15.8	0.37	9.4	#10 (M5) Screw	100	500

Super-Grip® Cable Tie Mounts

SGTM1S6-C	SGM	0.28	7.0	0.51	13.0	0.38	9.7	0.22	5.6	#6 (M3) Screw	100	500
SGTM2S8-C	SGM, SGI, SGS	0.33	8.4	0.66	16.7	0.48	12.2	0.34	8.6	#8 (M4) Screw	100	500
SGTM3S10-C	SGM, SGI, SGS, SGLH	0.38	9.7	0.91	23.1	0.61	15.4	0.43	11.0	#10 (M5) Screw	100	500

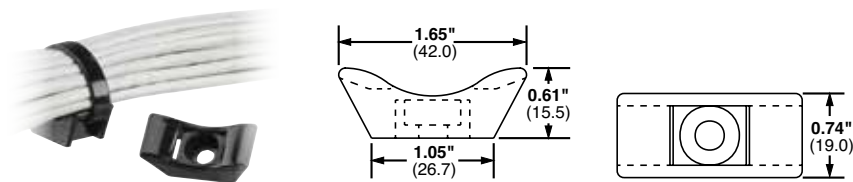
Hyper-V™ Cable Tie Mounts

HVTM-06-C0	HV	0.40	10.2	0.81	20.6	0.68	17.3	0.41	10.4	#12 (M6) Screw	100	500
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‡Cable tie cross section sizes: M = Miniature, I = Intermediate, S = Standard, LH = Light-Heavy, SGM = Super-Grip® Miniature, SGI = Super-Grip® Intermediate, SGS = Super-Grip® Standard, SGLH = Super-Grip® Light-Heavy, and HV = Hyper-V™.

**Extra-Heavy Cable Tie Mounts – Screw Applied**

- Unique cradle design provides maximum stability for cable bundle
- Route and support large diameter and heavy cable bundles



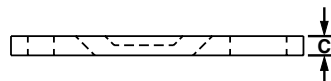
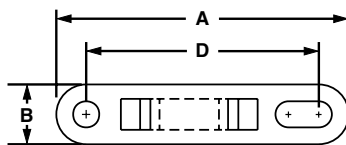
Part Number	Used with Cable Ties‡	Material	Color	Environment	Mounting Method	Std. Pkg. Qty.	Std. Ctn. Qty.		
TMEH-S8-Q0	M, I, S, HS, LH, H, EH, HLM	Weather Resistant Nylon 6.6	Black	Outdoors	#8 (M4) Screw	25	250		
TMEH-S10-Q0					#10 (M5) Screw	25	250		
TMEH-S25-Q0		Weather Resistant Polypropylene			1/4 (M6) Screw	25	250		
TMEH-S10-C100					#10 (M5) Screw	100	500		
TMEH-S10-C109		Polypropylene	Green	Indoors	#10 (M5) Screw	100	500		

‡Cable tie cross section sizes: M = Miniature, I = Intermediate, S = Standard, HS = Heavy-Standard, LH = Light-Heavy, H = Heavy, EH = Extra-Heavy and HLM = Miniature Tak-Ty® Hook & Loop Ties.



Cable Tie Plates

- Slotted mounting hole accommodates various fastener spacing
- Low profile design keeps bundle close to mounting surface
- For indoor use only
- Material: Nylon 6.6



Part Number	Used with Cable Ties‡	Length A		Width B		Height C		Hole Spacing D		Color	Mil. Std. Part Number	Mounting Method	Std. Pkg. Qty.	Std. Ctn. Qty.
		In.	mm	In.	mm	In.	mm	In.	mm					
TP2-C	M, I, S	1.98	50.3	0.50	12.7	0.13	3.2	1.60	40.6	Natural	MS3341-2-9	#10 (M5) Screw	100	1000
TP4H-C	M, I, S, HS, LH, H	3.08	78.2	0.62	15.7	0.20	5.2	2.50	63.5	Natural	MS3341-2-9	1/4 (M6) Screw	500	1000

‡Cable tie cross section sizes: M = Miniature, I = Intermediate, S = Standard, HS = Heavy-Standard, LH = Light-Heavy and H = Heavy.

B1.
Cable Ties
and Tools

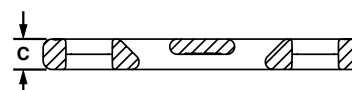
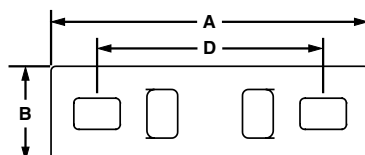
B2.
Cable
Accessories

B3.
Stainless Steel
Cable Ties,
Tools and
Accessories

C1.
Wiring
Duct

Contour Multiple Tie Plates

- Designed for aerospace industry to minimize chance for abrasion
- Low profile design keeps bundle close to mounting surface
- For indoor use only
- Heat stabilized Nylon 6.6 material



Part Number	No. of Bundles	Used with Cable Ties‡	Length A		Width B		Height C		Hole Spacing D		Mounting Method	Mil. Std. Part Number	Std. Pkg. Qty.	Std. Ctn. Qty.
			In.	mm	In.	mm	In.	mm	In.	mm				
MTPC1H-E10-C39	1	M, I, S, HS, LH, H	2.09	53.1	0.63	16.0	0.20	5.2	1.5	38.1	#10 (M5) Screw	—	100	1000
MTPC2H-E10-C39	2		3.59	91.2	0.63	16.0	0.20	5.2	3.0	6.2	#10 (M5) Screw	—	100	1000
MTPC3H-E10-C39	3		5.09	129.3	0.63	16.0	0.20	5.2	4.50	114.3	#10 (M5) Screw	—	100	1000
MTPC4H-E10-C39	4		6.59	167.4	0.63	15.7	0.20	5.2	6.00	152.4	#10 (M5) Screw	—	100	1000
MTPC5H-E10-C39	5		8.09	205.5	0.63	16.0	0.20	5.2	7.50	190.5	#10 (M5) Screw	—	100	1000
MTPC6H-E10-C39	6		9.59	243.6	0.63	16.0	0.20	5.2	9.00	228.6	#10 (M5) Screw	—	100	1000

‡Cable tie cross section sizes: M = Miniature, I = Intermediate, S = Standard, HS = Heavy-Standard, LH = Light-Heavy and H = Heavy.

D1.
Terminals
and
Ferrules

E1.
Labeling
Systems

E2.
Labels

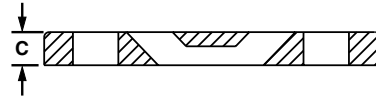
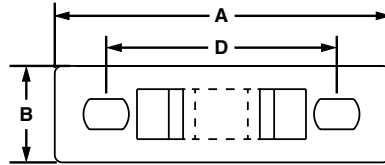
E3.
Permanent
Identification

F.
Part
Number
Index



Multiple Tie Plates

- Used to secure closely spaced wire bundles
- Low profile design keeps bundle close to mounting surface
- For indoor use only
- Material: Nylon 6.6

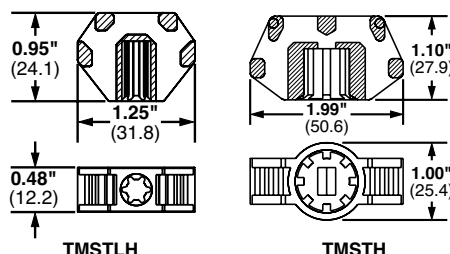


Part Number	No. of Bundles	Used with Cable Ties†	Length A		Width B		Height C		Hole Spacing D		Mounting Method	Mil. Std. Part Number	Std. Pkg. Qty.	Std. Ctn. Qty.
			In.	mm	In.	mm	In.	mm	In.	mm				
MTP1S-E6-C	1	M, I, S	1.75	44.5	0.50	12.7	0.13	3.2	1.25	31.8	#6 (M3) Screw	MS3339-1-9	100	1000
MTP1S-E10-C			1.75	44.5	0.50	12.7	0.13	3.2	1.25	31.8	#10 (M5) Screw	—	100	1000
MTP1H-E6-C		M, I, S, HS, LH, H	2.09	53.1	0.63	16.0	0.20	5.2	1.50	31.8	#6 (M3) Screw	MS3339-6-9	100	1000
MTP1H-E10-C			2.09	53.1	0.63	16.0	0.20	5.2	1.50	31.8	#10 (M5) Screw	—	100	1000
MTP2S-E6-C	2	M, I, S	3.00	76.2	0.50	12.7	0.13	3.2	2.50	63.5	#6 (M3) Screw	MS3339-2-9	100	1000
MTP2S-E10-C			3.00	76.2	0.50	12.7	0.13	3.2	2.50	63.5	#10 (M5) Screw	—	100	1000
MTP2H-E6-C		M, I, S, HS, LH, H	3.59	91.2	0.63	16.0	0.20	5.2	3.00	76.2	#6 (M3) Screw	MS3339-7-9	100	1000
MTP2H-E10-C			3.59	91.2	0.63	16.0	0.20	5.2	3.00	76.2	#10 (M5) Screw	—	100	1000
MTP3S-E6-C	3	M, I, S	4.25	108.0	0.50	12.7	0.13	3.2	3.75	95.3	#6 (M3) Screw	MS3339-3-9	100	1000
MTP3S-E10-C			4.25	108.0	0.50	12.7	0.13	3.2	3.75	95.3	#10 (M5) Screw	—	100	1000
MTP3H-E6-C		M, I, S, HS, LH, H	5.09	129.3	0.63	16.0	0.20	5.2	4.50	114.3	#6 (M3) Screw	MS3339-8-9	100	1000
MTP3H-E10-C			5.09	129.3	0.63	16.0	0.20	5.2	4.50	114.3	#10 (M5) Screw	—	100	1000
MTP4S-E6-C	4	M, I, S	5.50	139.7	0.50	12.7	0.13	3.2	5.00	127.0	#6 (M3) Screw	MS3339-4-9	100	1000
MTP4S-E10-C			5.50	139.7	0.50	12.7	0.13	3.2	5.00	127.0	#10 (M5) Screw	—	100	1000
MTP4H-E6-C		M, I, S, HS, LH, H	6.59	167.4	0.63	16.0	0.20	5.2	6.00	152.4	#6 (M3) Screw	MS3339-9-9	100	1000
MTP4H-E10-C			6.59	167.4	0.63	16.0	0.20	5.2	6.00	152.4	#10 (M5) Screw	—	100	1000
MTP5S-E6-C	5	M, I, S	6.75	171.5	0.50	12.7	0.13	3.2	6.25	158.8	#6 (M3) Screw	MS3339-5-9	100	1000
MTP5S-E10-C			6.75	171.5	0.50	12.7	0.13	3.2	6.25	158.8	#10 (M5) Screw	—	100	1000
MTP5H-E6-C		M, I, S, HS, LH, H	8.09	205.5	0.63	16.0	0.20	5.2	7.50	190.5	#6 (M3) Screw	MS3339-10-9	100	1000
MTP5H-E10-C			8.09	205.5	0.63	16.0	0.20	5.2	7.50	190.5	#10 (M5) Screw	—	100	1000
MTP6H-E6-C	6	M, I, S, HS, LH, H	9.59	243.6	0.63	16.0	0.20	5.2	9.00	228.6	#6 (M3) Screw	MS3339-11-9	100	1000
MTP6H-E10-C			9.59	243.6	0.63	16.0	0.20	5.2	9.00	228.6	#10 (M5) Screw	—	100	1000

†Cable tie cross section sizes: M = Miniature, I = Intermediate, S = Standard, HS = Heavy-Standard, LH = Light-Heavy and H = Heavy.

Stud Tie Mounts

- Easily applied to bolts or studs with a light hammer blow or turning of the mount
- Designed for use with cable ties to route and secure cable bundles, air, water and hydraulic lines
- Material: Impact Modified Weather Resistant Nylon 6.6

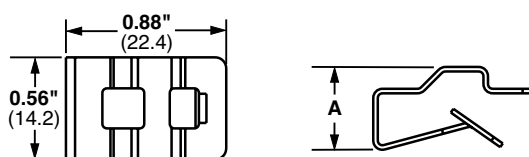


Part Number	Used with Cable Ties†	Color	Environment	Mounting Method	Std. Pkg. Qty.	Std. Ctn. Qty.
TMSTLHS6-M0	M, I, S, HS, LH	Black	Outdoors	6mm stud dia.	1000	5000
TMSTLHS8-M0	M, I, S, HS, LH			8mm stud dia.	1000	5000
TMSTHS10-D0	M, I, S, HS, LH, H			10mm stud dia.	500	—
TMSTHS11-D0	M, I, S, HS, LH, H			11mm stud dia.	500	—
TMSTHS12-D0	M, I, S, HS, LH, H			12mm stud dia.	500	—
TMSTHS13-D0	M, I, S, HS, LH, H			13mm stud dia.	500	—
TMSTHS16-D0	M, I, S, HS, LH, H			16mm stud dia.	500	—
TMSTHS19-D0	M, I, S, HS, LH, H			19mm stud dia.	500	—

†Cable tie cross section sizes: M = Miniature, I = Intermediate, S = Standard, HS = Heavy-Standard, LH = Light-Heavy and H = Heavy.

Metal Clip-On Mounts

- Clips on sheet metal edges for fast mounting of harness with cable ties
- Allows cable tie entry from all four sides for easy harness orientation
- For indoor use only
- Material: Zinc plated steel



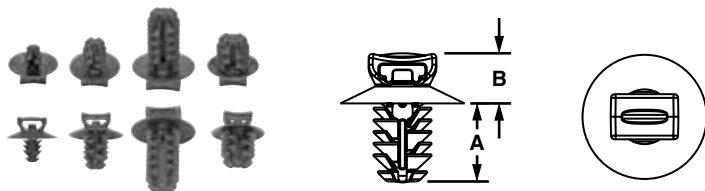
Part Number	Used with Cable Ties†	Height A		Max. Panel Thickness		Mounting Method	Std. Pkg. Qty.	Std. Ctn. Qty.
		In.	mm	In.	mm			
MCMS12-P-C	M, I, S	0.31	8.0	0.13	3.2	Clip-On	100	500
MCMS25-P-C		0.46	11.5	0.24	6.1		100	500
MCMS30-P-C		0.55	14.0	0.27	6.9		100	500

†Cable Tie Cross Section Sizes: M = Miniature, I = Intermediate, and S = Standard.

B1.
Cable Ties
and ToolsB2.
Cable
AccessoriesB3.
Stainless Steel
Cable Ties,
Tools and
AccessoriesC1.
Wiring
DuctC2.
Abrasion
ProtectionD1.
Terminals
and
FerrulesE1.
Labeling
SystemsE2.
LabelsE3.
Permanent
IdentificationF.
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Fir Tree Push Mounts

- Unique alternating barb design
- Lock securely into position
- Umbrella tensioning
- Exclusive contoured anvil head
- Material: Heat Stabilized Nylon 6.6, zero halogen.

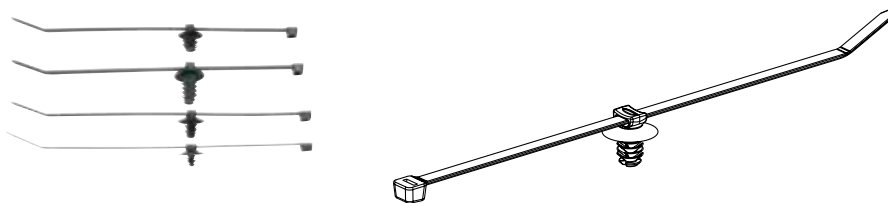


Part Number	Used with Cable Ties‡	Head Diameter		Panel to Top of Mount		Overall Height		Panel Hole Diameter Range		Panel Thickness Range		Std. Pkg. Qty.	Std. Ctn. Qty.
		In.	mm	In.	mm	In.	mm	In.	mm	In.	mm		
PUM-049-M30	M, I, S	0.67	17.0	0.26	6.6	0.54	13.8	0.18 – 0.19	4.6 – 4.9	0.03 – 0.19	0.7 – 3.0	1000	5000
PUM-071-M30	M, I, S	0.67	17.0	0.26	6.5	0.67	16.9	0.25 – 0.28	6.3 – 7.1	0.03 – 0.28	0.8 – 7.0	1000	5000
PUM-100-M30	M, I, S	0.64	16.0	0.26	6.5	0.67	16.9	0.35 – 0.40	9.0 – 10.0	0.03 – 0.28	0.8 – 7.0	1000	5000
PUM-925-M30	M, I, S, LH	0.77	20.0	0.30	7.6	1.05	26.7	0.34 – 0.36	8.8 – 9.3	0.04 – 0.62	1.0 – 16.0	1000	5000

‡Cable Tie Cross Section: M = Miniature, I = Intermediate, S = Standard, and LH = Light-Heavy.

Fir Tree Push Mount Assemblies

- Cable tie/mount assemblies significantly reduce installation time compared to loose parts
- Fewer parts throughout the manufacturing/assembly process
- Heat Stabilized Nylon 6.6 standard on cable ties and mounts

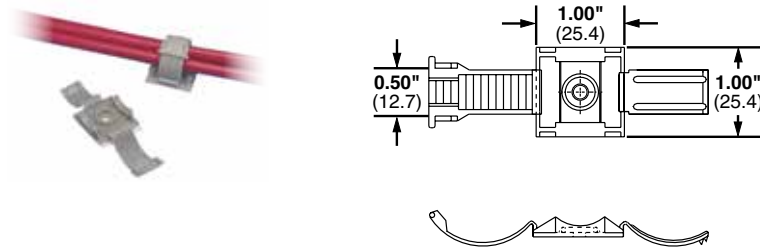


Part Number	Head Diameter		Panel to Top of Mount		Overall Height		Panel Hole Diameter Range		Panel Thickness Range		Max. Bundle Diameter		Std. Pkg. Qty.	Std. Ctn. Qty.
	In.	mm	In.	mm	In.	mm	In.	mm	In.	mm	In.	mm		
PUM-049-2S-D30	0.67	17.0	0.26	6.6	0.54	13.8	0.18 – 0.19	4.6 – 4.9	0.03 – 0.19	0.7 – 3.0	1.88	48.0	500	5000
PUM-071-2S-D30	0.67	17.0	0.26	6.6	0.67	16.9	0.25 – 0.28	6.3 – 7.1	0.03 – 0.28	0.8 – 7.0			500	5000
PUM-100-2S-D30	0.64	16.0	0.26	6.6	0.67	16.9	0.35 – 0.40	9.0 – 10.0	0.03 – 0.28	0.8 – 7.0			500	5000
PUM-925-3H-T30	0.77	20.0	0.30	7.6	1.05	26.7	0.34 – 0.36	8.8 – 9.3	0.04 – 0.62	1.0 – 16.0	3.00	76.0	200	1000

‡Use with PLT2S Cable Ties except PUM-925-3H-T30, use with PLT3H Cable Ties.

c^{us} Clincher™ Adjustable Releasable Clamp

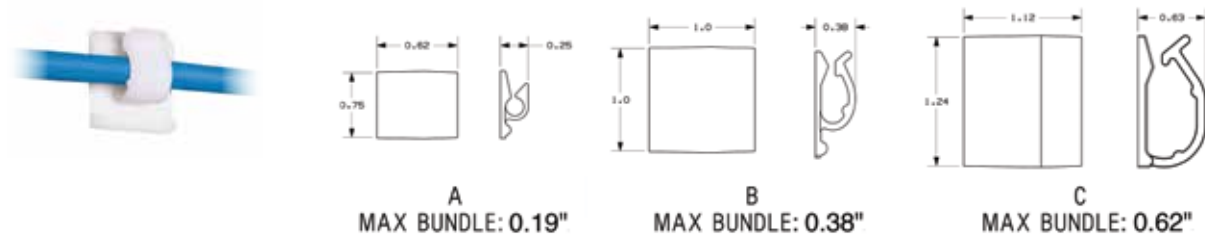
- Adjustable clamp designed to contain a range of cable bundle diameters
- Latch can be released to provide access to cable bundles
- For indoor use only
- Material: Polypropylene



Part Number	Bundle Diameter Range		Color	Mounting Method	Std. Pkg. Qty.	Std. Ctn. Qty.
	In.	mm				
ARC.68-A-Q	0.19 – 0.68	4.8 – 17.3	White	Rubber Adhesive Tape	25	250
ARC.68-A-Q14	0.19 – 0.68	4.8 – 17.3	Gray	Rubber Adhesive Tape	25	250
ARC.68-S6-Q	0.19 – 0.69	4.8 – 17.5	White	#6 (M3) Screw	25	250
ARC.68-S6-Q14	0.19 – 0.69	4.8 – 17.5	Gray	#6 (M3) Screw	25	250

c^{us} Adhesive Backed Cord Clips

- Cables are easily snapped into or out of the clips



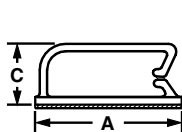
	Max. Bundle Dia.: 0.19" (4.8mm)	Max. Bundle Dia.: 0.38" (9.6mm)	Max. Bundle Dia.: 0.62" (15.75mm)
Natural Nylon 6.6; Rubber Adhesive; 100 pc/pkg	ACC19-A-C	ACC38-A-C	ACC62-A-C
Natural Nylon 6.6; Acrylic Adhesive; 100 pc/pkg	ACC19-AT-C	ACC38-AT-C	ACC62-AT-C
Black Nylon 6.6; Rubber Adhesive; 100 pc/pkg	ACC19-A-C0	ACC38-A-C0	ACC62-A-C0
Black Weather Resistant Nylon 6.6; Acrylic Adhesive; 100 pc/pkg	ACC19-AT-C0	ACC38-AT-C0	ACC62-AT-C0
Black Heat Stabilized Weather Resistant Nylon; High Bond Acrylic Adhesive, 1,000 pc/pkg	ACC19-AV-M300*	ACC38-AV-M300*	ACC62-AV-M300*

*Not UL recognized

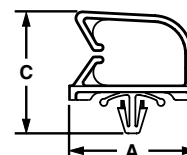
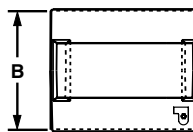
B1.
Cable Ties
and ToolsB2.
Cable
AccessoriesB3.
Stainless Steel
Cable Ties,
Tools and
AccessoriesC1.
Wiring
DuctC2.
Abrasion
ProtectionD1.
Terminals
and
FerrulesE1.
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SystemsE2.
LabelsE3.
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c **US Bevel Entry Clips**

- Beveled entry allows for easy insertion of cable bundle



BEC



BECP

Part Number	Max. Bundle Diameter		Length A		Width B		Height C		Material	Color	Environment	Mounting Method	Std. Pkg. Qty.	Std. Ctn. Qty.
	In.	mm	In.	mm	In.	mm	In.	mm						

Adhesive Backed

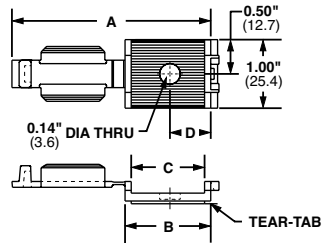
BEC38-A-L	0.38	9.6	1.46	37.1	1.24	31.5	0.52	13.2	Nylon 6.6	Natural	Indoors	Rubber Adhesive	50	500
BEC38-A-L20	0.38	9.6	1.46	37.1	1.24	31.5	0.52	13.2		Black			50	500
BEC62-A-L	0.62	15.7	1.46	37.1	1.24	31.5	0.79	20.1		Natural			50	500
BEC62-A-L20	0.62	15.7	1.46	37.1	1.24	31.5	0.79	20.1		Black			50	500
BEC75-A-L	0.75	19.0	1.46	37.1	1.49	37.8	0.89	22.6		Natural			50	500
BEC75-A-L20	0.75	19.0	1.46	37.1	1.49	37.8	0.89	22.6		Black			50	500

Push Barb

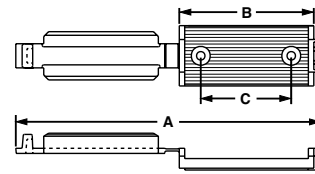
BECP38H25-L	0.38	9.6	1.46	37.1	0.73	18.5	1.00	25.4	Nylon 6.6	Natural	Indoors	Push Barb	50	500
BECP38H25-L20	0.38	9.6	1.46	37.1	0.73	18.5	1.00	25.4		Black			50	500
BECP75H25-L	0.75	19.0	1.47	37.3	0.73	18.5	1.00	25.4		Black			50	500
BECP75H25-L20	0.75	19.0	1.47	37.3	0.73	18.5	1.00	25.4		Natural			50	500

c[®] **Latching Flat Cable Mounts**

- Available in four sizes with a stack height of 0.17 inches (4.3mm) to accommodate different flat cable widths
- Low profile design holds wires, cables, and tubing
- Convenient releasable latch
- Large mounting base for high bonding strength
- For indoor use only
- Material: Nylon 6.6

B1.
Cable Ties
and ToolsB2.
Cable
AccessoriesB3.
Stainless Steel
Cable Ties,
Tools and
AccessoriesC1.
Wiring
DuctC2.
Abrasion
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FCM1 and FCM1.2

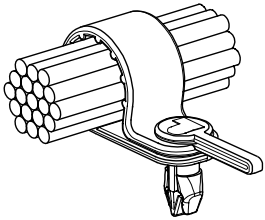
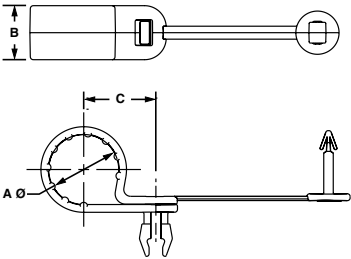


FCM2 and FCM3.25

Part Number	Cable Width		Length A		Width B		Hole Spacing C		Color	Mounting Method	Std. Pkg. Qty.	Std. Ctn. Qty.
	In.	mm	In.	mm	In.	mm	In.	mm				
Adhesive Backed												
FCM1-A-C14	1.05	26.7	2.90	73.7	1.05	26.7	—	—	Gray	Rubber Adhesive	100	500
FCM1.2-A-C14	1.20	30.5	3.16	80.3	1.37	34.8	—	—			100	1000
FCM2-A-C14	2.05	52.1	5.06	128.5	2.22	56.4	1.53	38.9			100	500
FCM3.25-A-L14	3.38	85.9	7.30	185.4	3.38	85.9	1.50	38.1			50	500
Screw Mounted												
FCM1-S6-C14	1.05	26.7	2.90	73.7	1.05	26.7	—	—	Gray	#6 (M3) Screw	100	1000
FCM1.2-S6-C14	1.20	30.5	3.16	80.3	1.37	34.8	—	—			100	1000
FCM2-S6-C14	2.05	52.1	5.06	128.5	2.22	56.4	1.53	38.9			100	1000
FCM3.25-S6-L14	3.38	85.9	7.30	185.4	3.38	85.9	1.50	38.1			50	500

Pan-Clamp™ Heavy Duty Fixed Diameter Clamps

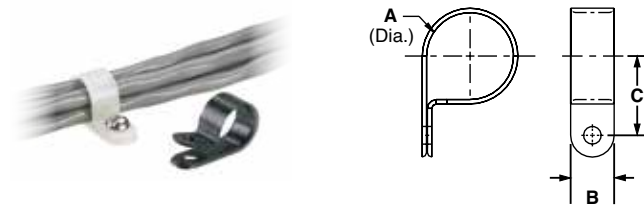
- One-piece design significantly reduces installation time
- Material: Impact modified Weather Resistant Nylon 6.6
- Integrated ribs prevent rotation of cable bundles and ensures secure grip on hoses



Part Number	Max. Bundle Diameter A		Width B		Bundle Offset C		Max. Panel Thickness		Panel Hole Diameter		Color	Std. Pkg. Qty.	Std. Ctn. Qty.
	In.	mm	In.	mm	In.	mm	In.	mm	In.	mm			
PC038-H25D-C0	0.38	9.5	0.62	15.7	0.64	16.3	0.13	3.2	0.28	7.1	Black	100	500
PC050-H25D-C0	0.50	12.7	0.62	15.7	0.71	17.9	0.13	3.2	0.28	7.1		100	500
PC062-H25D-C0	0.63	15.8	0.62	15.7	0.77	19.5	0.13	3.2	0.28	7.1		100	500
PC075-H25D-C0	0.75	19.1	0.62	15.7	0.83	21.1	0.13	3.2	0.28	7.1		100	1000
PC087-H25D-C0	0.88	22.1	0.62	15.7	0.89	22.7	0.13	3.2	0.28	7.1		100	1000
PC100-H25D-C0	1.00	25.4	0.62	15.7	0.96	24.3	0.13	3.2	0.28	7.1		100	1000
PC112-H25D-C0	1.13	28.5	0.62	15.7	1.02	25.8	0.13	3.2	0.28	7.1		100	1000
PC125-H25D-C0	1.25	31.8	0.62	15.7	1.08	27.4	0.13	3.2	0.28	7.1		100	1000

c^{us} Fixed Diameter Cable Clamps

- Durable Nylon 6.6 cable clamps



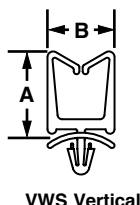
Part Number	Max. Bundle Diameter A		Width B		Bundle Offset C		Mounting Method	Std. Pkg. Qty.	Std. Ctn. Qty.
	In.	mm	In.	mm	In.	mm			
CCS12-S8-C	0.12	3.1	0.37	9.4	0.33	8.4	#8 (M4) Screw	100	500
CCS19-S8-C	0.19	4.8	0.37	9.4	0.43	10.9	#8 (M4) Screw	100	500
CCS25-S8-C	0.25	6.3	0.37	9.4	0.41	10.4	#8 (M4) Screw	100	500
CCS25-S10-C	0.25	6.3	0.37	9.4	0.41	10.4	#10 (M5) Screw	100	500
CCS31-S8-C	0.31	7.9	0.37	9.4	0.49	12.4	#8 (M4) Screw	100	500
CCS38-S8-C	0.38	9.5	0.37	9.4	0.59	15.0		100	500
CCS44-S8-C	0.44	11.1	0.37	9.4	0.57	14.5		100	500
CCS50-S8-C	0.50	12.7	0.37	9.4	0.60	15.2		100	500
CCH12-S10-C	0.12	3.1	0.50	12.7	0.36	9.1	#10 (M5) Screw	100	500
CCH19-S10-C	0.19	4.8	0.50	12.7	0.42	10.7		100	500
CCH25-S10-C	0.25	6.3	0.50	12.7	0.46	11.7		100	500
CCH31-S10-C	0.31	7.9	0.50	12.7	0.50	12.7		100	500
CCH38-S10-C	0.38	9.5	0.50	12.7	0.53	13.5		100	500
CCH44-S10-C	0.44	11.1	0.50	12.7	0.56	14.2		100	500
CCH50-S10-C	0.50	12.7	0.50	12.7	0.59	15.0		100	500
CCH56-S10-C	0.56	14.2	0.50	12.7	0.61	15.5		100	500
CCH62-S10-C	0.62	15.7	0.50	12.7	0.65	16.5		100	500
CCH69-S10-C	0.69	17.5	0.50	12.7	0.75	19.1		100	500
CCH75-S10-C	0.75	19.1	0.50	12.7	0.78	19.8		100	500
CCH81-S10-C	0.81	20.6	0.50	12.7	0.81	20.6		100	500
CCH87-S10-C	0.87	22.1	0.50	12.7	0.84	21.3		100	500
CCH100-S10-C	1.00	25.4	0.50	12.7	0.91	23.1		100	500
CCH112-S10-C	1.12	28.4	0.50	12.7	0.97	24.6		100	500
CCH119-S10-C	1.19	30.2	0.50	12.7	1.00	25.4		100	500
CCH125-S10-C	1.25	31.8	0.50	12.7	1.06	26.9		100	500
CCH138-S10-C	1.37	34.8	0.50	12.7	1.12	28.4		100	500
CCH150-S10-C	1.50	38.1	0.50	12.7	1.19	30.2		100	500

All parts listed are also available in black weather resistant material (add suffix 0). Bulk package only.

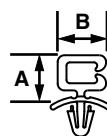
B1.
Cable Ties
and ToolsB2.
Cable
AccessoriesB3.
Stainless Steel
Cable Ties,
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FerrulesE1.
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c **Wire Saddles**

- Funnel entry design for fast insertion of wires and cables
- Available in vertical and horizontal loading configurations
- Design of wing provides added stability
- Material: Nylon 6.6
- For indoor use only



VWS Vertical

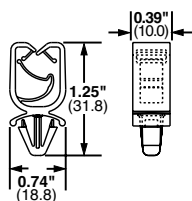


HWS Horizontal

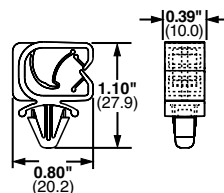
Part Number	Max. Bundle Diameter		Height A		Width B		Max. Panel Thickness		Panel Hole Diameter		Color	Mounting Method	Std. Pkg. Qty.	Std. Ctn. Qty.
	In.	mm	In.	mm	In.	mm	In.	mm	In.	mm				
VWS3750-C	0.38 x 0.50	9.7 x 12.7	0.90	22.9	0.25	6.4	0.08	2.0	0.19	4.7	Natural	Push Barb	100	500
VWS3775-C	0.38 x 0.75	9.7 x 19.1	1.17	29.7	0.25	6.4	0.08	2.0	0.19	4.7			100	500
VWS50100-C	0.50 x 1.00	12.7 x 25.4	1.47	37.3	0.25	6.4	0.08	2.0	0.19	4.7			100	1,000
HWS2819-C	0.19 x 0.28	5.0 x 7.1	0.42	10.7	0.44	11.2	0.08	2.0	0.19	4.7			100	500

Harness Clips

- Integral “spring” holds wire bundles tightly
- Available in vertical and horizontal loading configurations
- Design of wing provides added stability



HCMP06B



HCMP06C

Part Number	Max. Bundle Diameter Range		Max. Panel Thickness		Panel Hole Diameter		Material	Color	Mounting Method	Std. Pkg. Qty.	Std. Ctn. Qty.
	In.	mm	In.	mm	In.	mm					
HCMP06B12-M20	0.24 – 0.47	5.9 – 12.5	0.118	3.0	0.25	6.4	Nylon 6.6	Black	Push Mount	100	500
HCMP06C12-M20	0.24 – 0.47	5.9 – 12.5	0.105	2.7	0.25	6.4				100	500

Quick-Build™ Harness Board System

A Revolutionary Modular Solution for Harness Manufacturers

The modular, reusable solution consists of 1' X 1' (305mm x 305mm) grid tiles and specially designed, repositionable accessories that improve the productivity of wire harness assembly builds by up to 18%. The Quick-Build™ Accessories are more effective than nail, magnetic, or snap-in routing fixture methods. Accessories easily twist and lock in place until you're ready to make a change for faster routing of wires and design flexibility.

Low-Volume-High-Mix (LVHM) manufacturers achieve the greatest savings due to reduced material costs — up to 65% of layout and board builds. By reducing the number of bulky plywood boards, the Quick-Build™ Harness Board System delivers more than 50% in storage space savings. Whether you need to build a variety of wire and cable assemblies to meet different customer specifications or for prototyping new harness designs, the more you build, the greater your profitability.



B1.
Cable Ties
and Tools

B2.
Cable
Accessories

B3.
Stainless Steel
Cable Ties,
Tools and
Accessories

C1.
Wiring
Duct

C2.
Abrasion
Protection

D1.
Terminals
and
Ferrules

E1.
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E2.
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F.
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Quick-Build™ Starter Kit

- Kit of Quick-Build™ components and various harness board accessories allows customers to evaluate the Quick-Build™ solution by simply ordering a single part number



Part Number	Description	Std. Pkg. Qty.
QB-KIT1	Starter Kit with initial assortment of Quick-Build™ components essential for faster wire harness builds. Kit include (8) grid tiles, (30) mounting pegs, (20) mounting platforms, and a wide assortment of harness board accessories and nail/nail bases.	1

Quick-Build™ Grid Tile

- Install on top of plywood backing to provide mounting surface
- Secure to plywood with user supplied screws



Part Number	Description	Std. Pkg. Qty.
QB-TILE	1' X 1' (305mm x 305mm) square base component that allows Quick-Build™ mounting pegs and platforms to create a modular harness system. One package includes 8 tiles. Black.	1 PK

Quick-Build™ Mounting Pegs

- Repositionable to allow user to build different harness configurations as needed
- Pointed end inserts through drawing secured to grid tiles, providing the ability to create a harness on top of a drawing

Replacement Washers	
Part Number	Qty
QB-WASHER-Q	25

Note: Required for use with Quick-Build™ mounting platform and Quick-Build™ nail holders to provide a modular harness board system



Part Number	Description	Std. Pkg. Qty
QB-MOUNT-L	Peg can be positioned and relocated. Accepts single nail holders, five nail holders, and Quick-Build™ mounting platforms. Allows accessories to rotate as needed even after mounting peg is installed into grid tile. Black.	50

Quick-Build™ Mounting Platform

- Requires the use of the Quick-Build™ mounting pegs to provide a modular solution
- Repositionable, allowing user to build different harness configurations as needed
- Provides the ability to rotate to allow breakouts and cable pathways to accommodate various harness design requirements
- Use Quick-Build™ mounting screws (sold separately) to secure harness board accessories to the Quick-Build™ mounting platform



Part Number	Description	Std. Pkg. Qty
QB-BASE175-Q	Mounting platform that is inserted in Quick-Build™ mounting pegs 1.75" x 1.75" (44.45mm x 44.45mm). Allows elastic retainers, wire end holders, corner posts, bundle retainers and other harness board accessories to create a complete Quick-Build™ harness system. Compatible with: #4, #6, #8, and 1/4" screws. Black.	25
QB-BASE120-Q	Mounting platform that is inserted in Quick-Build™ pegs 1.2" x 1.2" (30.48mm x 30.48mm). Allows test fixtures corner posts, wire end holders, and other harness board accessories to be installed to provide a complete Quick-Build™ harness system. Compatible with #8 screw size. Screw length will vary based on test fixtures and accessories used. Note: Consider multiple QB-BASE120-Q components for large test fixtures. Black.	25

Quick-Build™ Screws

- Used to secure traditional harness board accessories and test fixtures to Quick-Build™ mounting platform
- Phillips/slot combination screw style



Part Number	Description	Std. Pkg. Qty
QB-S6-500-C	#6 screw; 1/2" (12.7mm) long	100
QB-S8-500-C	#8 screw; 1/2" (12.7mm) long	100
QB-S8-750-C	#8 screw; 3/4" (19.05mm) long	100
QB-S25-500-C	1/4" screw; 1/2" (12.7mm) long	100
QB-S25-1000-L	1/4" screw; 1" (25.4mm) long	50

Quick-Build™ Single Nail Holder

- Requires the use of the Quick-Build™ mounting pegs to provide a modular solution
- Repositionable, allowing user to build different harness configurations as needed
- Allows the use of harness board nails (sold separately)
- Use with single nails to create pathways and breakout channels



Part Number	Description	Compatible Harness Board Single Nail Part Number (see Page B2.47)	Std. Pkg. Qty.
QB-SN1-Q	Single nail holder to accommodate one 1" (25.4mm) nail. White	HBN1-T	25
QB-SN2-Q	Single nail holder to accommodate one 2" (50.8mm) nail. Black	HBN2-T	25
QB-SN3-Q	Single nail holder to accommodate one 3" (76.2mm) nail. Gray	HBN3-T	25

B1.
Cable Ties
and ToolsB2.
Cable
AccessoriesB3.
Stainless Steel
Cable Ties,
Tools and
Accessories

Quick-Build™ Five Nail Holder

- Requires the use of Quick-Build™ mounting pegs to provide a modular solution
- Repositionable, allowing user to build different harness configurations as needed
- Allows the use of up to five harness board nails (sold separately)
- Use with nails to create pathways and breakout channels with harness board nails



Part Number	Description	Compatible Harness Board Single Nail Part Number (see Page B2.47)	Std. Pkg. Qty.
QB-FN1-Q	Five nail holder to accommodate up to five 1" (25.4mm) nails. White	HBN1-T	25
QB-FN2-Q	Five nail holder to accommodate up to five 2" (50.8mm) nails. Black	HBN2-T	25
QB-FN3-Q	Five nail holder to accommodate up to five 3" (76.2mm) nails. Gray	HBN3-T	25

C1.
Wiring
DuctC2.
Abrasion
ProtectionD1.
Terminals
and
Ferrules

Quick-Build™ Grid Tile Connector

- Optional accessory for use with grid tiles to prevent the need for plywood backing and ensure accurate alignment of grid system
- Recommended for adjacent tiles where corners of two or four tiles come together



Part Number	Description	Std. Pkg. Qty.
QB-CONN	Grid tile connector to ensure accurate alignment of Grid System. One package includes five pieces. Black	1

E1.
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SystemsE2.
LabelsE3.
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Traditional Harness Board Accessories

Panduit harness board accessories have been around for a long time and continue to provide easy routing and forming of wires in harness fabrication.

Harness Board Nails

- Manufactured from Nickel Plated Steel
- Smooth finish on nails prevents abrasion to wire jackets



Part Number	Description	Compatible QB Components (see Page B2.46)	Std. Pkg. Qty.
HBN1-T	Harness Board Nail - 1" (25.4mm) long (1.65" [41.91mm] overall).	QB-SN1-Q and QB-FN1-Q	200
HBN2-T	Harness Board Nail - 2" long (50.8mm) (2.66" [67.55mm] overall).	QB-SN2-Q and QB-FN2-Q	200
HBN3-T	Harness Board Nail - 3" long (76.2mm) (3.67" [93.22mm] overall).	QB-SN3-Q and QB-FN3-Q	200

Elastic Retainers – Replaceable Version

- Cable bundles are formed as individual wires are inserted
- Completed bundles can be easily removed
- The elastic band is replaceable



Replacement Elastic	
Part Number	Qty
RER.5E-X	10
RER.75E-X	10
RER1.25E-X	10
RER2.0E-X	10

Part Number	Description	Compatible QB Components	Std. Pkg. Qty.
RER.5-S6-X	Elastic retainer with replaceable elastic band. Suitable for 0.5" (12.7mm) maximum bundle capacity.	QB-BASE175-Q and QB-S6-500-C	10
RER.75-S6-X	Elastic retainer with replaceable elastic band. Suitable for 0.75" (19.05mm) maximum bundle capacity.		10
RER1.25-S6-X	Elastic retainer with replaceable elastic band. Suitable for 1.25" (31.75mm) maximum bundle capacity.		10
RER2.0-S6-X	Elastic retainer with replaceable elastic band. Suitable for 2.0" (50.8mm) maximum bundle capacity.		10

Elastic Retainers

- Cable bundles are formed as individual wires are inserted
- Completed bundles can be easily removed



Part Number	Description	Compatible QB Components	Std. Pkg. Qty.
ER.5-E4-X	Elastic Retainer. Suitable for 0.5" (12.7mm) maximum bundle capacity.	QB-BASE175-Q and QB-S6-500-C	10
ER1.25-E4-X	Elastic Retainer. Suitable for 1.25" (31.75mm) maximum bundle capacity.	QB-BASE175-Q and QB-S6-500-C	10

Bundle Retainers

- Funnel entry allows fast cable insertion
- Completed bundles can be easily removed



Part Number	Description	Compatible QB Components	Std. Pkg. Qty.
BR.5-E6-C	Bundle Retainer. Suitable for 12.7mm maximum bundle capacity. 27.17mm standoff height. Black	QB-BASE175-Q and QB-S6-500-L	100
BR.75-E6-C	Bundle Retainer. Suitable for 19.05mm maximum bundle capacity. 24.13mm standoff height. Black	QB-BASE175-Q and QB-S6-500-L	100
BR2-1.3-X	Bundle Retainer. Suitable for 50.8mm maximum bundle capacity. 33.59mm standoff height. Black	QB-BASE175-Q and QB-S25-500-L	10
BR2-1.5-X	Bundle Retainer. Suitable for 50.8mm maximum bundle capacity. 40.386mm standoff height. Black	QB-BASE175-Q and QB-S25-1000-L	10
BR2-4-X	Bundle Retainer. Suitable for 50.8mm maximum bundle capacity. 103.12mm standoff height. Black	QB-BASE175-Q and QB-S25-1000-L	10
BR2-6-X	Bundle Retainer. Suitable for 50.8mm maximum bundle capacity. 152.91mm standoff height. Black	QB-BASE175-Q and QB-S25-1000-L	10

B1.
Cable Ties
and ToolsB2.
Cable
AccessoriesB3.
Stainless Steel
Cable Ties,
Tools and
Accessories

Corner Posts

- Designed to pre-form tight bundles at harness corners and breakouts
- Top arm rotates upward for easy removal of completed harness



Part Number	Description	Compatible QB Components	Std. Pkg. Qty.
CPH.75-S8-X	Corner post to assist in tight corners of harness systems. 19.05mm maximum bundle diameter. Center of bundle is 34.29mm from surface.	QB-BASE120-Q or QB-BASE175-Q and QB-S8-500-C	10
CPL.75-S8-X	Corner post to assist in tight corners of harness systems. 19.05mm maximum bundle diameter. Center of bundle is 14.22mm from surface.	QB-BASE120-Q or QB-BASE175-Q and QB-S8-500-C	10

C1.
Wiring
DuctC2.
Abrasion
ProtectionD1.
Terminals
and
Ferrules

Wire End Holder

- Secures wire ends while harness is being fabricated
- Use with #28 thru #16 AWG wires



Part Number	Description	Compatible QB Components	Std. Pkg. Qty.
WEH-E8-C	Use to retain end of wire in secure position. Helps when making terminations or dressing harness.	QB-BASE120-Q or QB-BASE175-Q and QB-S8-500-C	100

E1.
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Fanning Strip System

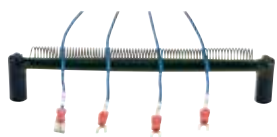
- Holds wires in a specific orientation
- No sharp edges to damage wire insulation
- Accepts wires up to 18 AWG
- Fanning strip can remain as part of completed harness



Part Number	Description	Compatible QB Components	Std. Pkg. Qty.
FSH40-X	Fanning strip holder to elevate FS156 Fanning Strip 15.75mm above surface. 152.4mm long. Black	QB-BASE120-Q or QB-BASE175-Q and QB-S8-500-C	10
FSHH-X	Fanning strip holder to elevate FS156 Fanning Strip 36.07mm above surface. 81.28mm long. Black	QB-BASE120-Q or QB-BASE175-Q and QB-S8-500-C	10
FS156-C	Fanning strip with 76 spaces for wires up to 18 AWG. 307.34mm long and 7.85mm tall.	N/A	100

Spring Wire Breakout System

- Harness board spring and spring holder secures wire ends while harness is being fabricated
- Wires simply pull out from spring when harness is removed
- Each SHH Spring Holder is supplied with one rigid wire piece to hold the spring laterally and two #8 (M4), 2" (50.8mm) hex head wood screws; purchase spring separately



Part Number	Description	Compatible QB Components	Std. Pkg. Qty.
SHH1-S8-X	Spring Wire Holder that elevates spring 33.02mm above surface. Compatible with PBSC1-X spring. Black	QB-BASE120-Q or QB-BASE175-Q and QB-S8-500-C	10
SHH3-S8-X	Spring Wire Holder that elevates spring 33.02mm above surface. Compatible with PBSC3-X spring. Black	QB-BASE120-Q or QB-BASE175-Q and QB-S8-500-C	10
PBSC1-X	Spring compatible with SHH1-S8-X Spring Wire Holder.	NA	10
PBSC3-X	Spring compatible with SHH3-S8-X Spring Wire Holder.	NA	10
PBSC6-X	Spring used independent of Spring Wire Holder. Requires 152.4mm spacing for mounting. Can be secured directly to Quick-Build™ Mounting Platform.	QB-BASE175-Q and QB-S25-500-L	10
PBSC12-X	Spring used independent of Spring Wire Holder. Requires 304.8mm spacing for mounting. Can be secured directly to Quick-Build™ Mounting Platform.	QB-BASE175-Q and QB-S25-500-L	10

Physical Properties and Colors of Cable Accessory Materials

Design Criteria	Nylon 6.6	Flame Retardant Nylon 6.6	Weather Resistant Nylon 6.6	Heat Stabilized Nylon 6.6	Heat Stabilized Weather Resistant Nylon 6.60	Impact Resistant Nylon 6.6
Part Number Suffix	None (Natural or White), 14 (Gray), 20 (Black), 15 (Ivory)	60, 69, 20	0	30	300	None
Color	Natural, White, Gray, Black, Ivory	Black, Natural	Black	Black	Black	Black
Maximum Continuous Use Temperature	185F (85C)	230F (110C)	167F (75C)	167F (75C)	167F (75C)	185F (85C)
Minimum Continuous Use Temperature	-40F (-40C)	-40F (-40C)	-40F (-40C)	-40F (-40C)	-40F (-40C)	-40F (-40C)
UL Flammability - UL94	V-2	V-0	V-2	V-2	V-2	HB
UV Resistance	Poor	Poor	Good	Fair	Good	Poor
Water Absorption	1.3% (24 hrs)	1.1% (24 hrs)	1.2% (24hrs)	1.2% (24hrs)	1.2% (24hrs)	1.0% (24 hrs)
Gamma Radiation Resistance	Good	1x10 ⁵ Rads	Good	Good	Good	Good

B1.
Cable Ties
and ToolsB2.
Cable
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Stainless Steel
Cable Ties,
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AccessoriesC1.
Wiring
Duct

Design Criteria	PVC	Acetal	Acetal Heat Stabilized	-39 Material for Contour Multiple Tie Plates	Metal Detectable Nylon	Metal Detectable Polypropylene
Part Number Suffix	None, 8, 810	None	130, 139	39	86	186
Color	Gray, White	Black	Natural	Natural	Light Blue	Dark Blue
Maximum Continuous Use Temperature	122F (50C)	194F (90C)	194F (90C)	257F (125C)	149F (65C)	149F (65C)
Minimum Continuous Use Temperature	-40F (-40C)	-40F (-40C)	-40F (-40C)	-40F (-40C)	-40F (-40C)	-40F (-40C)
UL Flammability - UL94	V-0	HB	HB	V-2	N/A	N/A
UV Resistance	Poor	Good	Good	Poor	N/A	N/A
Water Absorption	0.3% (24 hrs)	0.43% (24 hrs)	0.65% (24hrs)	1.2% (24hrs)	N/A	N/A
Gamma Radiation Resistance	N/A	Poor	Poor	Good	N/A	N/A

C2.
Abrasion
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Physical Properties and Colors of Cable Accessory Materials (continued)

Design Criteria	Glass Filled Nylon 6.6	Impact Modified Weather Resistant Nylon 6.6	Glass Filled Flame Retardant Nylon 6.6	ABS	Nylon 66	Weather Resistant ABS
Part Number Suffix	None	0	60,69	None, 15 (Ivory)	20	0
Color	Black	Black	Black, Natural	White, Natural, Ivory	Black	Black
Maximum Continuous Use Temperature	167F (75C)	185F (85C)	230F (110C)	203F (95C)	167F (75C)	203F (95C)
Minimum Continuous Use Temperature	-40F (-40C)	-40F (-40C)	-40F (-40C)	-40F (-40C)	-40F (-40C)	-40F (-40C)
UL Flammability - UL94	HB	HB	V-0	HB	V-2	HB
UV Resistance	Poor	Poor	Poor	Poor	Poor	Fair
Water Absorption	1.2% (24hrs)	1.2% (24hrs)	0.7% (24 hrs)	0.3% (24 hrs)	1.2% (24hrs)	0.3% (24 hrs)
Gamma Radiation Resistance	Good	N/A	N/A	Good	Good	Good

Design Criteria	PEEK	Polypropylene	Weather Resistant Polypropylene	Flame Retardant Polypropylene	Tefzel	NORYL
Part Number Suffix	71	None / 14	100	None	76	10
Color	Natural	White, Gray	Black	Black	Aqua	White
Maximum Continuous Use Temperature	266F (130C)	230F (110C)	221F (105C)	257F (125C)	302F (150C)	176F (80C)
Minimum Continuous Use Temperature	-40F (-40C)	-40F (-40C)	-40F (-40C)	-40F (-40C)	-40F (-40C)	-40F (-40C)
UL Flammability - UL94	N/A	HB	HB	V-0	N/A	V-1
UV Resistance	Fair	Poor	Good	Good	Excellent	Good
Water Absorption	0.1% (24hrs)	0.1% (24 hrs)	0.1% (24 hrs)	0.15% (24 hrs)	<0.01% (24 HRS)	0.7% (24 hrs)
Gamma Radiation Resistance	Good	1x10^5 Rads	1x10^5 Rads	N/A	Good	N/A

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.

Mount Spacing

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

Cable or weight (kg/m)

Static Load rating of Mount (kg/m)

=

Spacing

Mounts

m

Surfaces	Rubber Based Foam Tape Mounts	Acrylic Based Foam Tape Mounts	Epoxy Applied Adhesive Mounts
Plastics	Good	Good	Good
Wood	Good	Good	Good
Glass	Fair	Good	Good
Painted Surfaces	Good	Good	Fair
Powder Coating	Good	Fair	Good
Metal	Good ₁	Good ₁	Good
Paper	Good	Good	Fair
Concrete, Stone, Masonry	Not Recommended	Not Recommended	Good
Chemical Resistance			
Water	Good	Good	Poor
Oil	Poor	Fair ₃	Good
Gasoline	Poor	Fair ₃	Fair
Dilute Acids	Poor	Fair ₃	Fair
Dilute Alkalis	Good	Fair ₃	Fair
Organic Solvents	Poor	Fair ₃	Not Recommended
Outdoor Exposure	Not Recommended	Good	Good ₂

1. Not recommended for use on copper or brass.
2. Mounts manufactured from outdoor material only. For specific applications, individual testing prior to extensive use is suggested.
3. Depends on concentration, exposure time, and chemical composition.

Selection and Use of Adhesive Mounts

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 can be used without cable ties. Adhesive backed mounts adhere to a variety of surfaces. This alternative to mechanical fasteners offers the advantage of lower installed cost with safe, easy to use, quality products.



Applications

- To route wires in control panels and switchboards
- To support bundles of wires away from moving mechanical devices
- Routing and harnessing cables, both indoors and out, to prevent safety hazards
- To organize flat cables in many locations with low profile construction
- Ideal for supporting wire bundles where holes cannot be made in the substrate
- To separate groups of wires for identification



B1.
Cable Ties
and Tools

B2.
Cable
Accessories

B3.
Stainless Steel
Cable Ties,
Tools and
Accessories

General Mount Guidelines

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.

C1.
Wiring
Duct

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 is identified by an “-A” in the part number. This tape develops its strength extremely fast and can be used in environments with temperatures ranging from -20°F (-29°C) to 120°F (49°C). It is recommended that rubber based adhesive mounts dwell 2 hours after installation, prior to loading. Rubber based adhesive tape is the best choice for most adhesive mount applications, including powder coated surfaces.

C2.
Abrasion
Protection

Acrylic based adhesive tape is also available and is identified by an “-AT” in the part number. This tape is for use in environments where continuous exposure to temperatures ranging from -20°F (-29°C) to 180°F (82°C) is possible. Acrylic based adhesive develops its maximum strength over a longer period of time than rubber based adhesive. It is recommended that acrylic adhesive mounts dwell 8 hours after installation, prior to loading. Acrylic based adhesive tape is a good choice for environments with exposure to UV rays or temperatures above 120°F (49°C).

D1.
Terminals
and
Ferrules

Panduit adhesive backed cable accessories are also available pre-installed with high bond acrylic-based adhesive. This adhesive can be used in applications with continuous use temperatures ranging from -31°F (-35°C) to 200°F (93°C), though higher temperatures may be possible for short-term exposure. High Bond cable accessories are recommended for use in demanding applications such as where high temperatures are required, or where fatigue loading is expected.

E1.
Labeling
Systems

Panduit also offers a 2-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. Panduit EMA adhesive is a 2-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.

E2.
Labels

E3.
Permanent
Identification

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Selection and Use of Adhesive Mounts (continued)

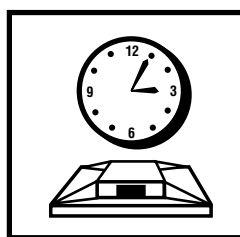
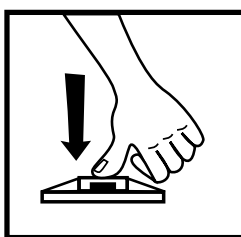
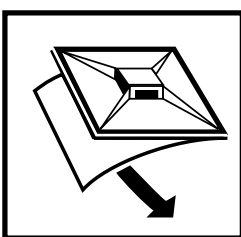
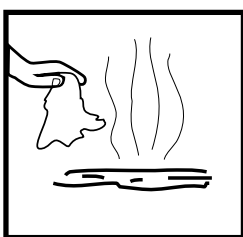
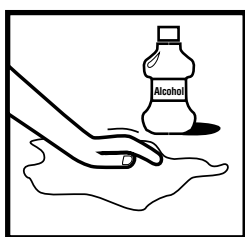
Surface Preparation

For best results, Panduit® adhesive mounts should be applied to clean, dry, grease-free surfaces. We recommend that the surface be cleaned prior to mount installation. For rubber and acrylic based foam tape adhesives, a blend of isopropyl alcohol and water 50/50 may be used to clean most surfaces.

For epoxy type adhesives, especially masonry surfaces, be sure to clean all loose particles away before mount installation. Some surface abrasion is recommended to achieve maximum strength. A light rubbing with medium grit emery cloth or sandpaper is best. Wash after abrading.

Proper Installation Techniques For Pressure Sensitive Adhesive Mounts

For proper installation of adhesive mounts with foam tape, simply remove the release liner and place the mount in the desired location. Avoid touching the adhesive prior to positioning the mount. Apply firm pressure to the mount for 5 seconds to insure proper adhesion.



1) Clean surface with a clean cloth and isopropyl alcohol.

2) Allow surface to air dry.

3) Remove the release liner, being careful not to touch the adhesive.

4) Apply full thumb pressure for at least 5 seconds.

5) Allow mount to properly dwell.

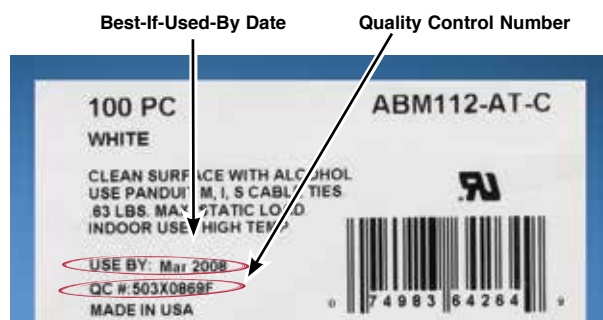
Proper Storage Conditions

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 shelf life of foam tape is 3 years. Shelf life of epoxy is 1 year. Deviation from the recommended storage conditions may reduce the shelf life or adhesive strength. In any case, adhesive products should never be stored near heating vents or other heat sources, and storage in lower temperatures than those recommended may increase the shelf life.

Stock Rotation

Adhesive mount inventory should be rotated in order to insure the quality of the adhesive foam tape. Each package of Panduit 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.

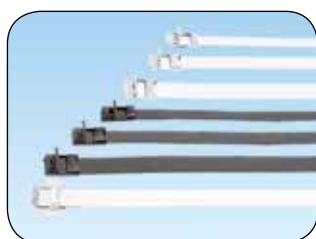


Mount Removal

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.

Stainless Steel Cable Ties and Accessories

The Pan-Steel® System provides a strong, durable method of bundling and mechanical fastening, for all indoor, outdoor, and underground (including direct burial) applications. The ties are designed for use in critical applications where strength, vibration, radiation, weathering, corrosion and temperature extremes are a factor.



- **Patented locking head design assures locking in any position, with a high rated loop tensile strength for a durable solution that delivers an extra margin of safety**
- **201, 304, or 316 grade stainless steel provides a strong, long-lasting method of bundling and mechanical fastening in harsh environments**
- **Accessories available to protect, speed, and simplify the mounting of wires, cable, and tubing with Panduit® Pan-Steel® Stainless Steel Cable Ties**
- **Complete line of manual and powered installation tools available with controlled tension and automatic cut-off for lower installed cost**
- **Large selection of stainless steel cable ties to deliver maximum design flexibility to match specific application requirements**

Panduit continues to develop stainless steel solutions for harsh environment applications by solving customer problems with innovative products and reliable tooling to achieve lowest installed cost.

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If you are missing information from this catalog, please refer to the Full line catalog posted on panduit.com.

Pan-Steel® Products Overview

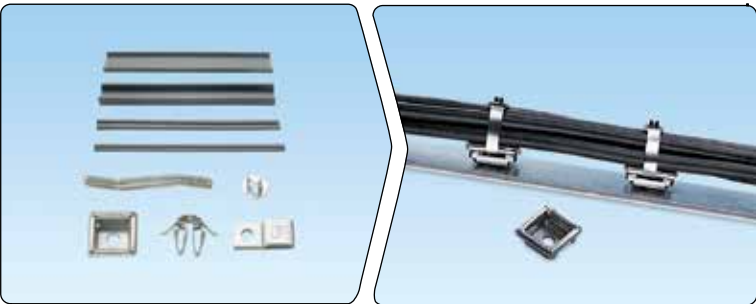
Pan-Steel® Cable Ties



Pages B3.3 – B3.6

- Design for use in the industrial, OEM and transportation markets
- Self-locking head design speeds installation
- Strong, durable method of cable bundling
- Rounded edges assure cable protection and worker safety

Accessories



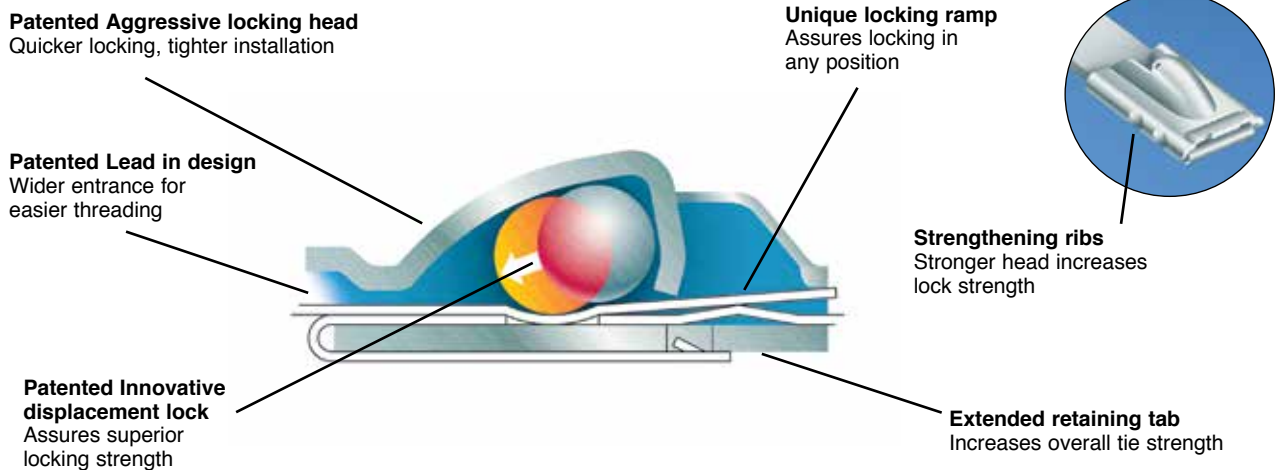
Page B3.7

- Cushion sleeving provides full separation between ties and bundles
- Multiple mount options for range of applications and panel thicknesses
- Mounts secure ties to structure quickly and easily

Features and Benefits – Pan-Steel® Cable Ties

Panduit® Pan-Steel® Stainless Steel Ties are engineered for safety, productivity, and durability by providing round edges and smooth surfaces, easy threading, high loop tensile strength and tight clamping.

Self-Locking Head Construction



Fully Rounded Edges



Panduit tie body



Other manufacturer's tie body

The Pan-Steel® Stainless Steel Cable Tie features fully rounded edges to assure bundle protection and operator safety. Panduit not only removes the burr, but actually passes the material through a secondary process which removes the top and bottom corners of the material.

Self-Locking for Fast Installation



Self-locking design can be fastened by hand requiring no fold over or additional installation steps.



Pan-Steel® Installation Tools for adjustable tension control and automatic cut-off for quick, consistent, and secure installation.



Pan-Steel® System Accessories are used with Pan-Steel® Stainless Steel Cable Ties to speed and simplify the mounting of wires, cables, and tubing. Installation methods include screw mounts and push mounts.

Part Number System for Pan-Steel® Cable Ties

MLT

Type

MLT = Metal
Locking
Tie**6**Bundle Reference
Diameter (In.)**S**

Cross Section

S = Standard
LH = Light-Heavy
H = Heavy
EH = Extra-Heavy
EH15 = Extra-Heavy-15
SH = Super-Heavy

—

CP

Standard Package Size

Q = 25
L* = 50
LP** = 50
CP = 100

*Standard Cross Section

**Heavy Cross Section

T

Material

(blank) = 304

316 = 316



Pan-Steel® Self-Locking Cable Ties – MLT Series

- Self-locking head design speeds installation and locks into place at any length along the tie body
- Provides a strong, durable method of cable bundling
- Can be used in a wide range of indoor, outdoor, and underground (including direct burial) applications
- Smooth surfaces and rounded edges assures cable protection and worker safety
- Available in AISI 304 stainless steel for general-purpose applications
- Available in AISI 316 stainless steel for the most corrosive environments



Part Number	Max. Bundle Diameter		Length*		Min. Loop Tensile Strength**		Min. Bundle Diameter		Width		Thickness		Recommended Installation Tool***	Std. Pkg. Qty.	Std. Ctn. Qty.
	In.	mm	In.	mm	Lbs.	N	In.	mm	In.	mm	In.	mm			

AISI 304 Stainless Steel – For General Purpose

Standard Cross Section

MLT1S-CP	1.0	25	5.0	127	200	890	0.50	12.7	0.18	4.6	0.010	0.25	GS4MT, HTMT, PPTMT, ST2MT	100	500
MLT2S-CP	2.0	51	7.9	201	200	890	0.50	12.7	0.18	4.6	0.010	0.25		100	500
MLT2S-L	2.0	51	7.9	201	200	890	0.50	12.7	0.18	4.6	0.010	0.25		50	500
MLT2.7S-CP	2.7	69	10.2	259	200	890	0.50	12.7	0.18	4.6	0.010	0.25		100	500
MLT4S-CP	4.0	102	14.3	362	200	890	0.50	12.7	0.18	4.6	0.010	0.25		100	500
MLT4S-L	4.0	102	14.3	362	200	890	0.50	12.7	0.18	4.6	0.010	0.25		50	500
MLT6S-CP	6.0	152	20.5	521	200	890	0.50	12.7	0.18	4.6	0.010	0.25		100	500
MLT8S-CP	8.0	203	26.8	679	200	890	0.50	12.7	0.18	4.6	0.010	0.25		100	500
MLT10S-CP	10.0	254	33.0	838	200	890	0.50	12.7	0.18	4.6	0.010	0.25		100	500
MLT12S-Q	12.0	304	39.3	998	200	890	0.50	12.7	0.18	4.6	0.010	0.25		25	125
MLT14S-Q	14.0	355	45.5	1156	200	890	0.50	12.7	0.18	4.6	0.010	0.25		25	125
MLT15S-Q	15.0	380	49.2	1250	200	890	0.50	12.7	0.18	4.6	0.010	0.25		25	125

*Other lengths available, contact Panduit Customer Service.

**Per SAE Standard AS23190/3 (formerly MIL).

***For information on installation tools, refer to www.panduit.com/tools.



Pan-Steel® Self-Locking Cable Ties – MLT Series (continued)

	Max. Bundle Diameter		Length*		Min. Loop Tensile Strength**		Min. Bundle Diameter		Width		Thickness		Recommended Installation Tool***	Std. Pkg. Qty.	Std. Ctn. Qty.
Part Number	In.	mm	In.	mm	Lbs.	N	In.	mm	In.	mm	In.	mm			
Light-Heavy Cross Section															
MLT2LH-LP	2.0	51	7.9	201	250	1112	0.50	12.7	0.25	6.4	0.010	0.25	GS4MT, HTMT, PPTMT, ST2MT	50	250
MLT4LH-LP	4.0	102	14.3	362	250	1112	0.50	12.7	0.25	6.4	0.010	0.25		50	250
MLT6LH-LP	6.0	152	20.5	521	250	1112	0.50	12.7	0.25	6.4	0.010	0.25		50	250
MLT8LH-LP	8.0	203	26.8	679	250	1112	0.50	12.7	0.25	6.4	0.010	0.25		50	250
Heavy Cross Section															
MLT2H-LP	2.0	51	7.9	201	450	2000	0.50	12.7	0.31	7.9	0.010	0.25	GS4MT, ST2MT, HTMT, PPTMT, PBTMT	50	250
MLT4H-LP	4.0	102	14.3	362	450	2000	0.50	12.7	0.31	7.9	0.010	0.25		50	250
MLT6H-LP	6.0	152	20.5	521	450	2000	0.50	12.7	0.31	7.9	0.010	0.25		50	250
MLT8H-LP	8.0	203	26.8	679	450	2000	0.50	12.7	0.31	7.9	0.010	0.25		50	250
MLT10H-LP	10.0	254	33.0	838	450	2000	0.50	12.7	0.31	7.9	0.010	0.25		50	250
MLT14H-Q	14.0	355	45.5	1156	450	2000	0.50	12.7	0.31	7.9	0.010	0.25		25	125
Extra-Heavy Cross Section															
MLT4EH-LP	4.0	102	17.1	434	600	2670	1.00	25.4	0.50	12.7	0.010	0.25	ST2MT, RT2HT, RT2HTN, PBTMT	50	250
MLT6EH-LP	6.0	152	23.4	594	600	2670	1.00	25.4	0.50	12.7	0.010	0.25		50	250
MLT8EH-LP	8.0	203	29.7	754	600	2670	1.00	25.4	0.50	12.7	0.010	0.25		50	250
MLT10EH-LP	10.0	254	35.9	912	600	2670	1.00	25.4	0.50	12.7	0.010	0.25		50	250
MLT12EH-Q	12.0	305	42.2	1072	600	2670	1.00	25.4	0.50	12.7	0.010	0.25		25	125
Super-Heavy Cross Section															
MLT4SH-LP	4.0	102	17.1	434	900	4005	1.00	25.4	0.63	15.9	0.015	0.38	RT2HT, RT2HTN, PBTMT	50	250
MLT6SH-LP	6.0	152	23.4	594	900	4005	1.00	25.4	0.63	15.9	0.015	0.38		50	250
MLT8SH-LP	8.0	203	29.7	754	900	4005	1.00	25.4	0.63	15.9	0.015	0.38		50	250
MLT10SH-LP	10.0	254	35.9	912	900	4005	1.00	25.4	0.63	15.9	0.015	0.38		50	250
MLT12SH-Q	12.0	305	42.2	1072	900	4005	1.00	25.4	0.63	15.9	0.015	0.38		25	125

*Other lengths, thickness and material grade (316SS) available, contact Panduit Customer Service or refer to www.panduit.com.

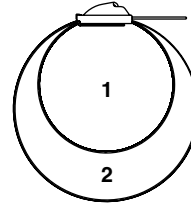
**Per SAE Standard AS23190/3 (formerly MIL).

***For information on installation tools, refer to www.panduit.com/tools.

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Pan-Steel® Double Wrapped Cable Ties – MLTD Series

- Self-locking head design speeds installation and locks into place at any length along the tie body
- Cable tie body passes through the head two times for additional strength
- Available in heavy, extra-heavy, and super-heavy cross sections
- Available in AISI 304 stainless steel for general-purpose applications
- Available in AISI 316 stainless steel for EH and SH cross sections
- Super-heavy double wrapped tested for short circuit applications up to 71.5 kA



Part Number	Max. Bundle Diameter		Length*		Min. Loop Tensile Strength**		Min. Bundle Diameter		Width		Thickness		Recommended Installation Tool***	Std. Pkg. Qty.	Std. Ctn. Qty.
	In.	mm	In.	mm	Lbs.	N	In.	mm	In.	mm	In.	mm			

AISI 304 Stainless Steel – MLTD Double Wrapped Ties

Heavy Cross Section

MLT2DH-L	2.0	51	18.5	470	600	2670	1.00	25.4	0.31	7.9	0.010	0.25	GS4MT, HTMT, PPTMT, ST2MT	50	250
MLT4DH-L	4.0	102	28.0	711	600	2670	1.00	25.4	0.31	7.9	0.010	0.25		50	250
MLT6DH-Q	6.0	152	40.0	1016	600	2670	1.00	25.4	0.31	7.9	0.010	0.25		25	250

Extra-Heavy Cross Section

MLT4DEH-Q	4.0	102	29.5	749	800	3560	1.00	25.4	0.50	12.7	0.010	0.25	ST2MT, RT2HT, RT2HTN, PBTMT	25	125
MLT6DEH-Q	6.0	152	41.5	1054	800	3560	1.00	25.4	0.50	12.7	0.010	0.25		25	125
MLT8DEH-Q	8.0	203	53.5	1359	800	3560	1.00	25.4	0.50	12.7	0.010	0.25		25	125

Super-Heavy Cross Section

MLT6DSH-Q	6.0	152	41.5	1054	1200	5340	1.00	25.4	0.62	15.9	0.015	0.38	RT2HT, RT2HTN, PBTMT	25	125
MLT8DSH-Q	8.0	203	53.5	1359	1200	5340	1.00	25.4	0.62	15.9	0.015	0.38		25	125

AISI 316 Stainless Steel – For MLTD Double Wrapped Ties

Extra-Heavy Cross Section

MLT6DEH-Q316	6.0	152	41.5	1054	800	3560	1.00	25.4	0.50	12.7	0.010	0.25	ST2MT, RT2HT, RT2HTN, PBTMT	25	125
MLT8DEH-Q316	8.0	203	53.5	1359	800	3560	1.00	25.4	0.50	12.7	0.010	0.25		25	125

Super-Heavy Cross Section

MLT6DSH-Q316	6.0	152	41.5	1054	1200	5340	1.00	25.4	0.63	15.9	0.015	0.38	RT2HT, RT2HTN, PBTMT	25	125
MLT8DSH-Q316	8.0	203	53.5	1359	1200	5340	1.00	25.4	0.63	15.9	0.015	0.38		25	125

*Other lengths, thickness and material grade (316SS) available, contact Panduit Customer Service or refer to www.panduit.com.

**Per SAE Standard AS23190/3 (formerly MIL).

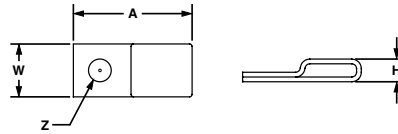
***For information on installation tools, refer to www.panduit.com/tools.

Stainless Steel Tie Mounts

- Low profile
- One hole mounting



- For use with standard, light-heavy, and heavy cross section Pan-Steel® Ties as well as 0.38 inch (9.5mm) wide strapping
- 304 Stainless Steel

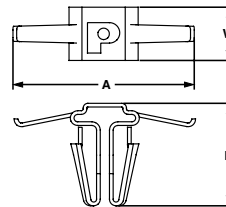


Part Number	Used with Pan-Steel® Ties/Strapping	Mounting Method*	Length A		Width W		Height H		Hole Diameter Z		Used With Buckle	Std. Pkg. Qty.	Std. Ctn. Qty.
			In.	mm	In.	mm	In.	mm	In.	mm			
MTM1H-C	MLTS/LH/H, MLTC/H, MLTFC/S/LH/H or MSW38	#8 (4mm) screw	0.90	22.6	0.40	10.2	0.17	4.4	0.17	4.4	MSBW75-C2	100	1000
MTM1H10-C		#10 (5mm) screw	0.90	22.6	0.40	10.2	0.17	4.4	0.21	5.4	MSBW38-C4	100	1000
MTM1H25-C		1/4" (6mm) screw	0.90	22.6	0.40	10.2	0.17	4.4	0.28	7.1	MSBW50-C4	100	1000

*Stainless steel screws are recommended for fastening to avoid corrosion problems associated with dissimilar metals. Contact Customer Service for additional sizes and material grades available.

Stainless Steel Push Mount

- No tapping required
- Used where only one side of the panel is accessible
- Nothing to assemble



Part Number	Used with Pan-Steel® Ties/Strapping	Mounting Method	Length A		Width W		Height H		Panel Thickness		Std. Pkg. Qty.	Std. Ctn. Qty.
			In.	mm	In.	mm	In.	mm	In.	mm		
MPWM-H56-Q	MLTS/LH/H, MLTC/H or MLTFC/S/LH/H	Inserted into pre-drilled hole 5/16" (8mm)	0.84	21.3	0.29	7.3	0.56	14.2	0.03 – 0.09	0.8 – 2.4	25	250

Stainless Steel Technical Information

Physical Characteristics of Stainless Steel and Aluminum

	Pan-Steel® Stainless Steel MS Strapping and Buckles	Pan-Steel® Stainless Steel Cable Ties
Material:	201, 304 and 316 GRADE STAINLESS STEEL	304 and 316 Grade Stainless Steel
MAXIMUM UL TEMPERATURE RATING	1000°F (538°C)	1000°F (538°C)
MINIMUM UL TEMPERATURE RATING	-76°F (-60°C)	-76°F (-60°C)
RoHS:	Compliant	Compliant
Flammability:	Non-Flammable	Non-Flammable
Ultraviolet light resistance:	Excellent	Excellent

Panduit Stainless Steel Cable Tie and Strapping Approvals

Logo (Symbol)	Agency	Spec/Approval	Requirement	Applicable Products
	Underwriters Laboratories, Inc.	Listing E56854	Dimensional, tensile, temp., cycling, humidity	MLT-S, MLT-LH, MLT-H, MLTEH15, MLTSH, MLTDEH and MLTDSH in 304, and 316. MSW38T15, MSW50T15, MSW63T15, MSBW38, MSBW50, MSBW63 in both 304 and 316 material. MSCW38T15, MSCW50T15, MSCW63T15, MSCNW38T15, MLTFCSS, SH, MLTCH, MSCNW50T15, and MSW63T15 in 316 material.
	Conformite European	Low Voltage Directive 73/23/EEC (amended 93/68/EEC) MLT cable ties and MS straps also meet the requirements from EN62275	CE Marking is required for products sold within the European Union. CE Marking Directives specify the minimum performance of these products. Applying the CE mark signifies compliance with essential requirements of specific directives.	All MLT, MRT, MRS ties and MS straps.
	Amer. Bureau of Shipping	Cert. #14-HS1189616 PDA	Mechanical	All MLT ties and MS straps.
	Bureau Veritas	Cert. #05968/EO BV	Material specification, dimensional, visual	All uncoated MLT ties in 304 and 316 material.
	Det Norske Veritas	Cert. #E-12387 and E-12388	Salt mist test, tensile test, accelerated aging, vibration tests	All uncoated MLTS, MLTH, MLTE15, MLTDEH15, MLTSH, and MS strap coated and uncoated 316 material.
	Germanischer Lloyd	Cert. #32666-83HH, 51796-89HH	Mechanical	All uncoated stainless steel MLT ties and all MS straps.
	Lloyd's Register of Shipping	Cert. # L5/60006(E1)	Material specification, tensile test, vibration tests	All uncoated stainless steel MLT ties and all MS straps.
	SAE Int'l formerly US MIL	AS23190 formerly MS23109E	Dimensional, visual, vibration, temp. cycling, immersion	MLT-S and MLT-H ties in 304 and 306 material.
	US Coast Guard	File No.16703/46	Mechanical	MLT-H series cable ties.
	US Military	SAE AS81306/ MS90387-3	Mechanical	GS4MT installation tools.

Chemical Resistance at 70°F (21°C) Temperature

Chemical	%	304 and 316 Stainless Steel*	Chemical	%	304 and 316 Stainless Steel*	Chemical	%	304 and 316 Stainless Steel*	Chemical	%	304 and 316 Stainless Steel*
Arsenic Acid	40	E	Cider	?	E	Methyl Alcohol	100	E	Sodium Bisulfate	10	E
Acetone	100	E	Dichloroethane	100	E	Methyl Chloride	100	E	Sodium Borate	All	E
Aluminum Hydroxide	AQ C.S.	E	Diethyl Ether	100	E	Methyl Ethyl Ketone	100	E	Sodium Carbonate	5	E
Ammonium Carbonate	5	E	Ethyl Alcohol	100	E	Naphtha	100	E	Sodium Chlorate	25	E
Ammonium Hydroxide	10	E	Ethyl Chloride	100	E	Nitric Acid	30-70	E	Sodium Chloride	2	E
Ammonium Nitrate	100	E	Ethyl Glycol	100	E	Nitrous Acid	5	E	Sodium Fluoride	5	F
Ammonium Sulfate	10	E	Ferric Hydroxide	All	E	Oleic Acid	100	E	Sodium Hydroxide	10	E
Barium Carbonate	All	E	Ferric Nitrate	10	E	Oxalic Acid	10	E	Sodium Hyposulfite	AQ C.S.	E
Barium Chloride	5	E	Ferrous Sulfate	10	E	Paraffin	100	E	Sodium Nitrate	5	E
Barium Sulfate	10	E	Fuel Oil	100	E	Petroleum Ether	100	E	Sodium Nitrite	AQ C.S.	E
Barium Sulfide	10	E	Futural	100	E	Phenol	90	E	Sodium Percolate	10	E
Benzene	100	E	Gallic Acid	AQ C.S.	E	Phosphoric Acid	10	E	Sodium Phosphate	5	E
Benzoic Acid	100	E	Gasoline	100	E	Picric Acid	1	S	Sodium Sulfate	5	E
Butyric Acid	50	E	Glycerine	100	E	Potassium Bromide	AQ C.S.	S	Sodium Thiosulfate	5	S
Calcium Carbonate	AQ C.S.	E	Hydrocyanic Acid	All	E	Potassium Carbonate 1%	1	E	Stearic Acid	100	E
Calcium Chlorate	10	E	Hydrogen Peroxide	30	E	Potassium Chlorate	AQ C.S.	E	Sulfur	100	E
Calcium Hydroxide	20	E	Hydrogen Sulfide	Dry	E	Potassium Dichromate	40	E	Sulfur Dioxide	All	E
Calcium Hydrochlorite	2	F	Iodoform	100	E	Potassium Ferrocyanide	25	E	Sulfuric Acid	100	E
Calcium Sulfate	2	E	Isopropyl Alcohol	100	E	Potassium Hydroxide	5	E	Sulfuric Acid	5	F
Carbon	100	E	Jet Fuel	100	E	Potassium Iodide	All	E	Tannic Acid	10	E
Chlorine (Wet)	Wet	F	Lactic Acid	100	E	Potassium Nitrate	50	E	Tartaric Acid	50	E
Chlorine (Dry)	Dry	F	Lanolin	10	E	Potassium Permanganate	5	E	Tetrahydrofuran	100	E
Chloroacetic Acid	30	F	Lead Acetate	5	E	Potassium Sulfate	5	E	Toluene	100	F
Chloroform	100	E	Magnesium Carbonate	All	E	Potassium Sulfide	AQ C.S.	E	Xylene	100	E
Chromic Acid	5	E	Magnesium Chloride	10	E	Propyl Alcohol	100	E	Zinc Chloride	70	E
Citric Acid	50	E	Magnesium Nitrate	All	E	Silver Nitrate	10	E	Zinc Nitrate	AQ C.S.	E
Copper Cyanide	10	E	Malic Acid	AQ C.S.	E	Sodium Acetate	60	E	Zinc Sulfate	AQ C.S.	E
Copper Nitrate	50	E	Mercury	100	E	Sodium Bicarbonate	All	E			

* E = Excellent, S = Satisfactory, F = Fair, AQ C.S. = Aqueous Cold Saturated, All = All % Concentrations.

B1.
Cable Ties
and ToolsB2.
Cable
AccessoriesB3.
Stainless Steel
Cable Ties,
Tools and
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Rigorous Tests and Physical Properties of Stainless Steel

STRENGTH: Panduit® Pan-Steel® Stainless Steel Ties and Straps are tested per the SAE Standard AS23190 formerly U.S. Military Specification MIL-S-23190, minimum loop tensile test. This test consists of applying a tie to a split mandrel and then measuring the force required to separate the (two) halves until the tie fails.

TEMPERATURE EXTREMES: Panduit® Pan-Steel® Stainless Steel Ties and Straps are 100% stainless steel in the alloy provided (locking head, locking ball, and body all provided from the same grade of material ordered).

Various temperature tests have been successfully completed. One such test is the U.S. Military Temperature Cycling Test per Thermal Shock Method 107, Test Condition B of MIL-STD-202. This test exposes the parts from low temperature -85°F (-65°C) to high temperature 275°F (135°C) to low temperature -85°F (-65°C). After exposure, the parts must be free of cracks, distortions, breaks, release of locking device; and meet the minimum loop tensile requirements.

SHOCK AND VIBRATION: Panduit® Pan-Steel® Standard and Heavy Cross Section ties have passed the U.S. Military random vibration Test Method 214. Test Condition II, Letter J of MIL-STD-202. This test consists of applying parts to a bundle and then vibrating them with random vibration for eight hours in each of two mutually perpendicular directions. The parts are then subjected to further temperature testing and finally have to pass the minimum loop tensile strength test.

Panduit® Pan-Steel® Extra-Heavy, Super-Heavy, MSW50 Strapping and MSW63 Strapping have passed the U.S. Military Shock and Vibration Testing per MIL-STD-167 and MIL-S-901D. The ties were subjected to vibrations in all three planes from 4 – 50 Hz and Shock testing in all three planes utilizing a hammer shock machine.

SALT SPRAY: Panduit® Pan-Steel® Stainless Steel Ties and Straps have been subjected to salt spray tests without signs of corrosion or reduction in performance.

OUTDOOR EXPOSURE: Panduit® Pan-Steel® Stainless Steel Ties and Straps have been exposed outdoors at New Lenox, Illinois USA since 1985. At the printing of this catalog, there has been no sign of corrosion or loss of performance.

FLUID IMMERSION: Panduit® Pan-Steel® Stainless Steel Ties were immersed in: 1-Hydraulic Fluid, 2-Turbine Fuel, 3-Lubricating Oil, and 4-Isopropyl Alcohol for four hours at temperatures of 122°F (50°C). Per SAE Standard AS23190, the parts were then subjected to and passed the minimum loop tensile test.

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 to determine the acceptability for use in various areas of nuclear power plants (accumulated over 40 year life). Radiation resistance is 2x10⁸ rads.



Military Cross Reference (AS23190)	
Military Standard Part Number	Panduit Part Number
AS23190/3-1	MLT2S-CP
AS23190/3-1	MLT2S-CP316
AS23190/3-2	MLT4S-CP
AS23190/3-2	MLT4S-CP316
AS23190/3-3	MLT6S-CP
AS23190/3-3	MLT6S-CP316
AS23190/3-4	MLT8S-CP
AS23190/3-4	MLT8S-CP316
AS23190/3-5	MLT2H-LP
AS23190/3-5	MLT2H-LP316
AS23190/3-6	MLT4H-LP
AS23190/3-6	MLT4H-LP316
AS23190/3-7	MLT6H-LP
AS23190/3-7	MLT6H-LP316
AS23190/3-8	MLT8H-LP
AS23190/3-8	MLT8H-LP316
AS23190/3-9	MLT10H-LP
AS23190/3-9	MLT10H-LP316

Stainless Steel Installation Tools

Panduit® offers a complete line of manual and powered installation tools available with controlled tension and automatic cut-off for lower installed cost.



- Used in production maintenance, and construction applications
- Full line of lightweight, ergonomic hand tools
- Flush cut-off of ties limits exposure to sharp edges

Panduit continues to develop stainless steel solutions for harsh environment applications by solving customer problems with innovative products and reliable tooling to achieve lowest installed cost.

If you are missing information from this catalog, please refer to the Full line catalog posted on panduit.com.

Stainless Installation Tools

GS4MT Hand-Operated Installation Tool

- Single handle operation for fast installation
- Cable tie side entry for immediate positioning of tie and tool
- Controlled tension, fully adjustable
- Easy removal of excess tie
- Qualified product listed per MIL Standard MS90387-3
- Automatically tensions and cuts off tie when predetermined tension is reached
- Installs standard 0.18 inch (4.6mm), light-heavy 0.25 inch (6.4mm) and heavy 0.31 inch (7.9mm) cross section ties



GS4MT



Side Entry



CAMT

Part Number	Part Description	Std. Pkg. Qty.
GS4MT	Used with standard, light-heavy, and heavy cross section Pan-Steel® type MLT ties, type MLTC/MLTFC coated ties, and type MLTDH double wrapped ties.	1
K4M-BLD	Replacement cutter blade for GS4MT.	1
K4MTG	Replacement tension gripper for GS4MT.	1
CAMT	Cut-off accessory. Use this accessory with GS4MT tool to cut MBH or MBS continuous banding. Accessory drops in place for use.	1

Tool Tension Locking Kits

- For applications requiring a locking device on either the selector knob (one cross section size and tension only) or tension level adjustment (but allow cross section size changes).



To lock selector knob and tension level.



To lock fine adjustment.

Part Number	Part Description	Std. Pkg. Qty.
TTLK3	Tool tension locking kit for GS4MT and PPTMT installation tools.	1

ST2MT and ST4MT Installation Tool

- Cable tie side entry for immediate positioning of tie and tool
- One hand operation – lightweight
- Easy removal of excess tie
- Tool tension is controlled by installer
- Rugged, lightweight, easy-to-operate pliers-type tool provides mechanical advantage



ST2MT

ST4MT

Part Number	Part Description	Std. Pkg. Qty.
ST2MT	Used with standard, light-heavy, heavy and extra-heavy cross section Pan-Steel® type MLT ties, type MLTC/MLTFC coated ties, wave ties, and type MLTDH double wrapped ties. This tool has twist action cut-off mechanism.	1
ST4MT	Installation tool for use with HTMLT. Manual tensioning controlled by operator. This tool has a built in cutting lever for clean recessed cutoff.	1

B1.
Cable Ties
and ToolsB2.
Cable
AccessoriesB3.
Stainless Steel
Cable Ties,
Tools and
AccessoriesC1.
Wiring
Duct

RT2HT and RT2HTN Installation Tools

- Cable tie side entry for immediate positioning of tie and tool to speed installation
- Multi-position rear handle provides flexibility for a one or two hand installation
- Narrow nose tool design option available for applications requiring installations in tight confined spaces
- Replacement cutter blade and handle available for RT2HT



RT2HT

RT2HTN

Part Number	Part Description	Std. Pkg. Qty.
RT2HT	Used with extra-heavy, extra-heavy 15, and super-heavy cross section Pan-Steel® type MLT, Wave-Ty™, and MLTFC ties. Width of tool nose 2.60" (66.0mm).	1
RT2HTN	Narrow nose installation tool for use with extra-heavy, extra-heavy 15, and super-heavy cross section Pan-Steel® type MLT and MLTFC ties. Width of tool nose 1.06" (27.0mm).	1

C2.
Abrasion
ProtectionD1.
Terminals
and
FerrulesE1.
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SystemsE2.
LabelsE3.
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PPTMT Pneumatic Installation Tool

- Power assisted tool for fast and effortless installation
- Cable tie side entry for immediate positioning of tie and tool
- Controlled tension, fully adjustable
- Automatic cut-off
- One hand operation – lightweight
- Easy removal of excess tie
- Operates 85 PSI (586 KPA Bar) non- air and requires no special maintenance



PPTMT



Side Entry

Part Number	Part Description	Std. Pkg. Qty.
PPTMT	Pneumatic Installation tool for use with the following stainless steel cross section ties: • Type MLT: Standard, light-heavy, and heavy • Type MLTFC: Standard and heavy • Type MLTC and MLTDH: Heavy Used with custom length banding cross sections: • Type MB: Standard and heavy • Type MBC: Heavy Automatically tensions and cuts off tie flush* when predetermined tension is reached, providing more reliable and consistent installations. Ideal for high production applications Installs both standard 0.18 in. (4.4mm) and heavy 0.31 in. (7.9mm) cross section ties with the flip of the knob.	1
PPH10	10.0' (3m) hose assembly (regulator to tool); includes a 0.13" (3.3mm) NPT male connector (to regulator) and 0.13" (3.3mm) female quick disconnect (to tool).	1
PL289N1	Filter/regulator .5 micron element, regulated range 3 – 100 psig, features 0.13" (3.3mm) NPT female output port (to hose PPH10) and 0.25" (6.4mm) male quick disconnect to source air line.	1
KPPTMTG	Replacement gripper kit for PPTMT.	1
KPPTMTB	Replacement blade kit for PPTMT.	1

PBTMT/E Battery Powered Installation Tool

- Lithium-Ion battery optimizes performance by installing more cable ties per charge
- Ergonomic tool design provides a compact lightweight body, reducing operator fatigue
- Automatic flush cut off enhances productivity with easy one hand installation
- Cable tie side entry allows quick side entry of tie into tool to speed installation
- 360° rotating head allows access to confined spaces
- Controlled tension mechanism provides consistent installations every time
- Battery indicator improves productivity with quick visual identification of battery life
- Variable speed trigger provides increased operator control, for easy installation



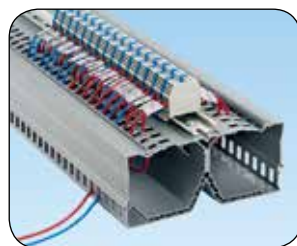
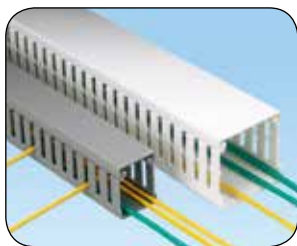
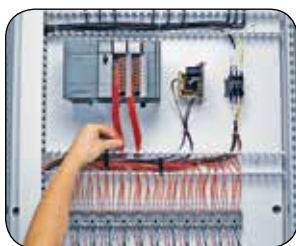
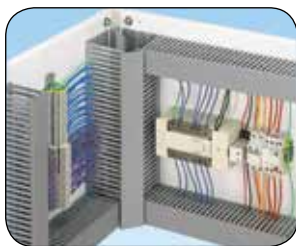
PBTMT/E



Part Number	Part Description	Std. Pkg. Qty.
PBTMT/E	Battery Powered Installation tool for use with the following stainless steel cross section ties: • Type MLT and MLTFC: Heavy, extra-heavy, and super-heavy • Type MLTC: Heavy • Type MLTDH: Extra-Heavy and super-heavy Used with custom length banding cross sections • Type MB and MBC: Heavy, extra-heavy, and super-heavy 2 – 12 volt Lithium-Ion batteries and 220 volt, 50 Hz charger included.	1

Wiring Duct

From the smallest wall mounted panels to the largest integrated turnkey systems Panduit® Panduct® Wiring Duct is the premium wire management solution for routing and concealing wiring in electrical control panels. Panduct® Wiring Duct provide solutions for the original equipment manufacturing, transportation, contract manufacturing, maintenance and repair and communications markets. Panduct® Wiring Duct is UL recognized and CSA Certified and most carry the CE mark.



Some of the features and benefits found in Panduct® Wiring Duct include:

- Smooth corners and edges that will not abrade wiring or irritate hands
- Integrated nonskid liners and unique cover designs insure the duct cover will not slide once installed or during vibration
- Specially formulated lead-free PVC material meets the NFPA79: 2015 flame retardancy requirements and carries a UL 94V-0 flammability rating
- Scorelines for easy removal of duct fingers and sidewalls
- Accessories and tools that increase productivity and lower the installed cost

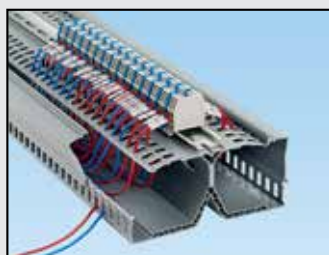
Panduit continues to develop new Panduct® Wiring Duct solutions to satisfy the challenges facing our customers worldwide. Maximize the utilization of enclosure space with PanelMax™ Corner Wiring Duct, DIN Rail Wiring Duct, and Noise Shield. PanelMax™ Corner Wiring Duct fits into unused space in the corner of enclosures providing up to 20% enclosure space savings*. Integrate component mounting with wire management with PanelMax™ DIN Rail Wiring Duct for up to 30% enclosure space savings. PanelMax™ Noise Shield provides noise mitigation between noisy and sensitive cabling and can reduce air space requirements within the enclosure.

*Versus panel layouts using conventional wiring duct.

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and ToolsB2.
Cable
AccessoriesB3.
Stainless Steel
Cable Ties,
Tools and
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Wiring
DuctC2.
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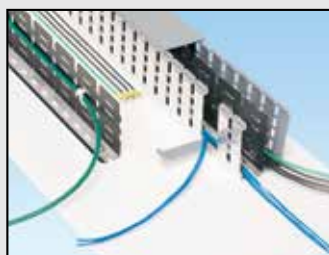
Wiring Duct for Control Panel Applications



PanelMax™ DIN Rail Wiring Duct

1

Up to 30% space savings vs. conventional duct/rail layouts.



PanelMax™ Shielded Wiring Duct and Noise Shield

2

Shielded products help mitigate noise up to 20 dB or create up to 6 inches of air space.



PanelMax™ Corner Wiring Duct

3

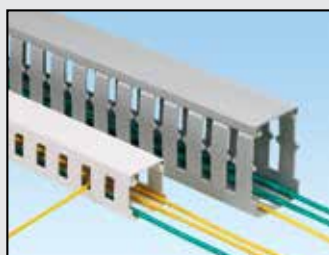
Up to 20% space savings in layouts with side and back panels



Hinged Cover Wiring Duct

4

Wide slot, narrow slot, and solid wall wiring duct with hinging cover.

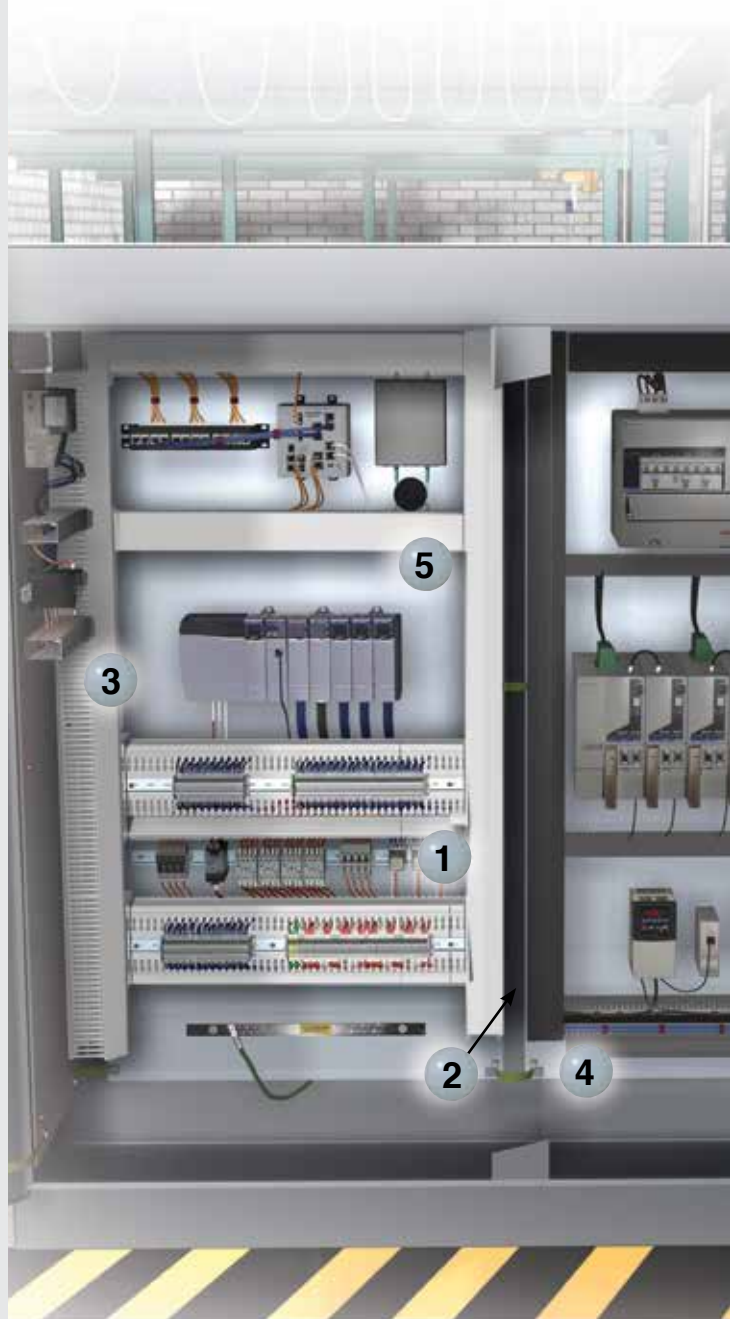


Type NE and NNC Halogen Free Wiring Duct

Up to 203°F (95°C) operating temperature

Type TNC Low-Smoke, Halogen Free Wiring Duct

Up to 221°F (105°C) operating temperature

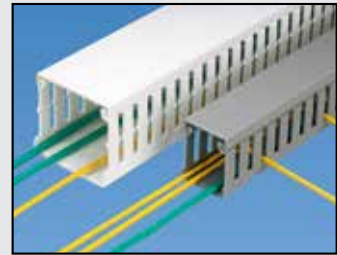




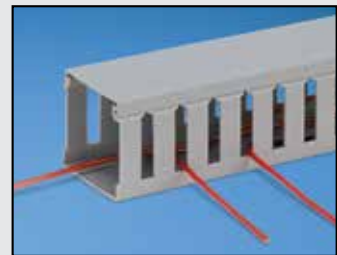
5

Type F Narrow Slot Wiring Duct

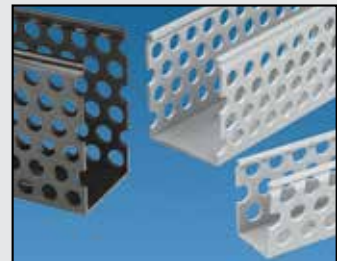
Narrow slot, narrow finger design fits the spacing of high-density terminal blocks.

**Type G Wide Slot Wiring Duct**

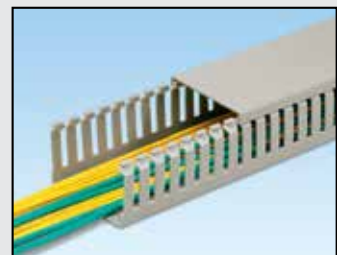
Wide slot, wide finger design.

**Type D Round Hole Wiring Duct**

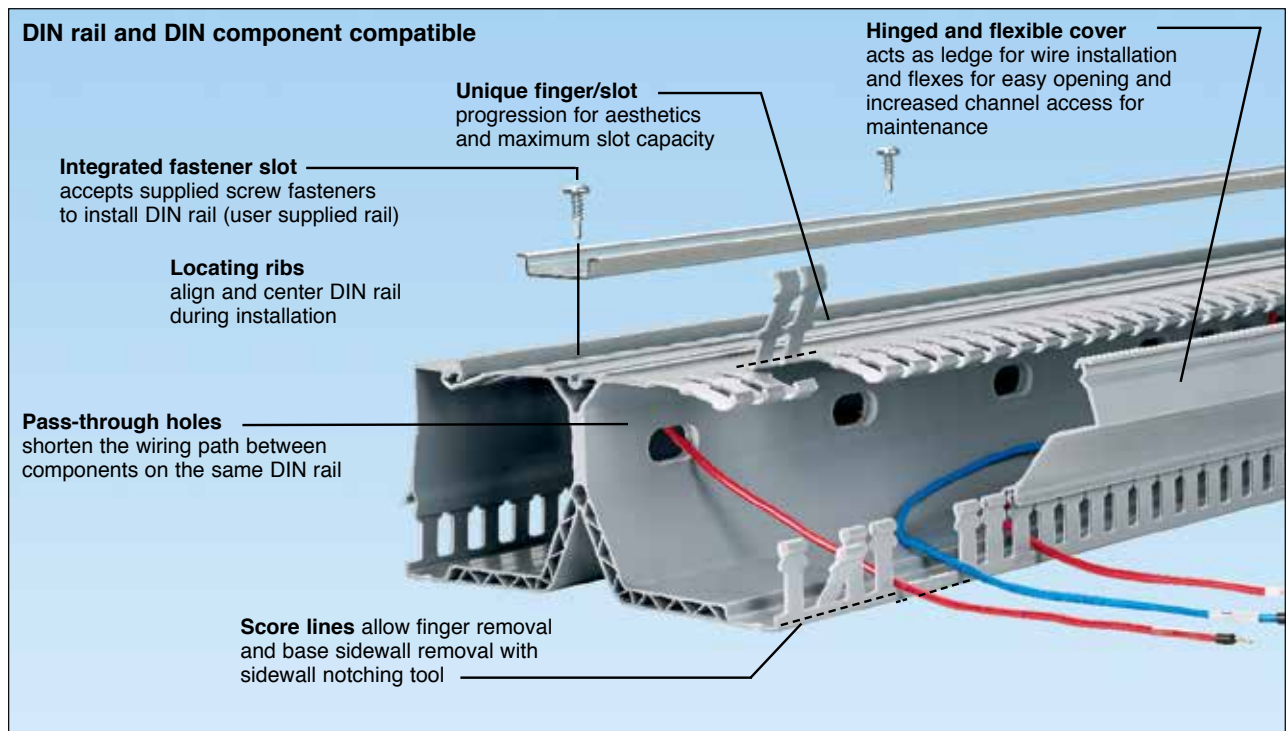
Multiple rows of holes to retain and support wire of variable heights and positions.

**Type MC Metric Wiring Duct**

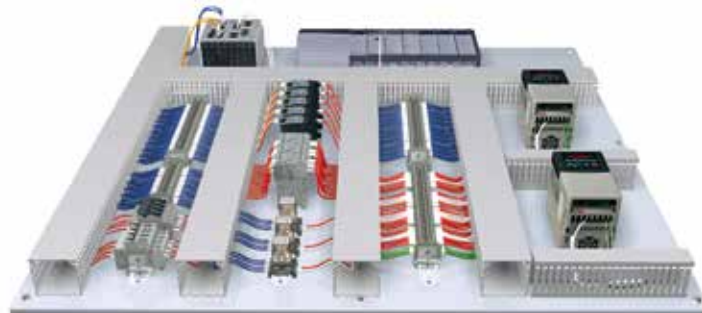
Narrow slot, narrow finger design with DIN 43 659 mounting holes.



Features and Benefits – Panduit® PanelMax™ DIN Rail Wiring Duct



Conventional Wiring Duct Panel Layout:



DIN Rail Wiring Duct Panel Layout with 30% Space Savings:



Panduit® PanelMax™ DIN Rail Wiring Duct positions DIN rail and components off the panel directly above an integrated wire management channel for a 30%+ smaller footprint to the panel layout.

 Panduct® PanelMax™ DIN Rail Wiring Duct

- Space saving design positions DIN rail and components off the panel directly above an integrated wire management channel for up to a 30% smaller footprint for duct and components; increased design flexibility and component access for easier installation and maintenance
- DIN rail and DIN component compatible with standard 35mm or 15mm rails and many DIN rail mount components for design flexibility
- Integrated DIN rail fastening slot allows the DIN rail to mount directly to product with plastic thread cutting screws for up to 40% faster duct and rail installation and reduced labor costs
- Hinged cover remains attached during maintenance and upgrades preventing lost covers, ensuring panel integrity, safety and aesthetics; L-shaped cover acts as ledge to aid wire installation for ease of use
- Slotted platform (horizontal) manage the wire from channel mounted components, outer sidewall slots (vertical) manage wire from adjacent panel mounted components; unique finger and slot progression for optimal wire management and aesthetics
- Channel pass through slots allows wires to transition internally between channels to ease wire connections to either side of components mounted on the same rail minimizing wire length and reducing material cost
- Optional wire retainer accessory retains cabling with cover opened or removed easing wire installation and future wire additions

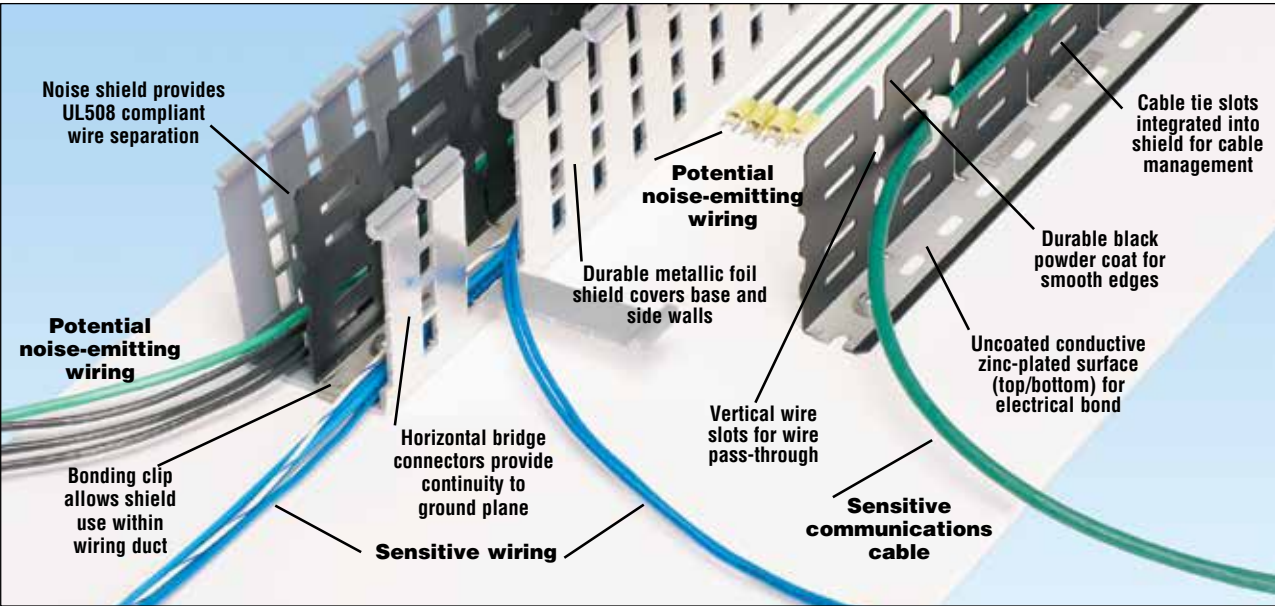
B1.
Cable Ties
and ToolsB2.
Cable
AccessoriesB3.
Stainless Steel
Cable Ties,
Tools and
Accessories

Part Number	Part Description	Std. Pkg. Qty.	Std. Ctn. Qty.
DRD22LG6	50.8mm height PanelMax™ DIN Rail Wiring Duct with dual wiring channels. 6.25" W x 2.12" H (158.7mm x 54.0mm). Base, covers and DIN rail fasteners included.	6 Ft.	6 Ft.
DRD33LG6	76.2mm height PanelMax™ DIN Rail Wiring Duct with dual wiring channels. 7.25" W x 3.14" H (184.1mm x 79.9mm). Base, covers and DIN rail fasteners included.	6 Ft.	6 Ft.
DRD44LG6	101.6mm height PanelMax™ DIN Rail Wiring Duct with dual wiring channels. 8.23" W x 4.12" H (209.0mm x 104.8mm). Base, covers and DIN rail fasteners included.	6 Ft.	6 Ft.
DRDC2LG6	50.8mm replacement cover for PanelMax™ DIN Rail Wiring Duct. 1.58" W x 72" L (40.1mm x 1828.8mm)	6 Ft.	24 Ft.
DRDC3LG6	76.2mm replacement cover for PanelMax™ DIN Rail Wiring Duct. 2.26" W x 72" L (57.4mm x 1828.8mm)	6 Ft.	24 Ft.
DRDC4LG6	101.6mm replacement cover for PanelMax™ DIN Rail Wiring Duct. 2.76" W x 72" L (70.1mm x 1828.8mm)	6 Ft.	24 Ft.
DRDSF-C	Replacement DIN rail fasteners for PanelMax™ DIN Rail Wiring Duct.	100	—
DRDWR2-X	50.8mm wire retainer for PanelMax™ DIN Rail Wiring Duct.	10	100
DRDWR3-X	76.2mm wire retainer for PanelMax™ DIN Rail Wiring Duct.	10	100
DRDWR4-X	101.6mm wire retainer for PanelMax™ DIN Rail Wiring Duct.	10	100
DRDCS2-X	50.8mm corner strip for PanelMax™ DIN Rail Wiring Duct.	10	100
DRDCS3-X	76.2mm corner strip for PanelMax™ DIN Rail Wiring Duct.	10	100
DRDCS4-X	101.6mm corner strip for PanelMax™ DIN Rail Wiring Duct.	10	100

Product sold base and cover together in 1828.8mm lengths. Replace LG with WH for white color.
Dimensions in parenthesis are metric.
For tool information refer to www.panduit.com/tools.

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DuctC2.
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FerrulesE1.
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Features and Benefits – Panduit® PanelMax™ Shielded Wiring Duct and Noise Shield



PanelMax™ Noise Shield separates drive cables and sensitive communication/signal cables within industrial control panels to reduce electromagnetic interference (EMI) while saving valuable space.



Metal noise barrier equivalent to 152.4mm of air spacing between power and signal cables, saves valuable panel space.



Perforated and pre-scored sections make it easy to cut to length with minimal deburring required.



Design Flexibility
Can be installed directly to metal panel surface or within Panduit wiring duct. Compatible with 50.8mm, 76.2mm, and 101.6mm height wiring ducts.



Bonding Clips
Noise Shield includes four bonding clips when mounting Noise Shield inside wiring duct.

Panduct® PanelMax™ Noise Shield

- Reduces EMI/RFI noise between sensitive and noisy wiring for up to 20dB reduction in noise, or 90% NVR (equivalent to 152.4mm of air spacing); innovative design installs easily within Panduit wiring duct or when mounted separately, delivering greater design flexibility to satisfy a wide range of applications
- Perforated and pre-scored sections speed installation by allowing sections of the shield to be snapped off at pre-scored locations to easily cut to length with minimal deburring required
- Vertical wall slots allow wires to cross the barrier at 90° when necessary, providing greater design flexibility
- Horizontal cable tie slots allow cable bundles to be held in place using cable ties so cabling is kept near barrier for greater reliability and optimal aesthetics
- Zinc plated steel surface in contact areas with sub-panel and bonding clip ensures continuity and is corrosion resistant
- Black powder coated vertical surface for smooth edges
- Meets UL 508/508A requirements as a barrier between conductors



PanelMax™ Noise Shield and Bonding Clips

Part Number	Part Description	Std. Pkg. Qty.
SD2EMI	EMI Noise Shield kit for 50.8mm height Panduit Wiring Duct; (2) three foot sections, bonding clips, and anti-oxidizing paste.	1
SD3EMI	EMI Noise Shield kit for 76.2mm height Panduit Wiring Duct; (2) three foot sections, bonding clips, and anti-oxidizing paste.	1
SD4EMI	EMI Noise Shield kit for 101.6mm height Panduit Wiring Duct; (2) three foot sections, bonding clips, and anti-oxidizing paste.	1
SDCLIP	Noise Shield replacement bonding clips – 2 clips.	1

For tool information refer to www.panduit.com/tools.

B1.
Cable Ties
and Tools

B2.
Cable
Accessories

B3.
Stainless Steel
Cable Ties,
Tools and
Accessories

C1.
Wiring
Duct

Panduct® PanelMax™ Shielded Wiring Duct

- Durable and continuous metallic foil covers and shields outer duct surfaces providing EMI/RFI noise reduction between sensitive and noisy wiring for up to 20dB reduction in noise, or 90% NVR (equivalent to 152.4mm of air spacing)
- Slotted sidewalls with horizontal bridge connectors provide wire management capability and noise reduction in the full height of the duct; slot size compatible with various wire types and sizes, including UTP Ethernet cabling
- High-quality Panduit PVC wiring duct base fully contains and protects wiring, easy to cut and install, and uses standard Panduit wiring duct covers
- Installs with standard fasteners including Panduit NR1 rivets



PanelMax™ Shielded Wiring Duct

Part Number	Part Description	Std. Pkg. Qty.
G2X2LG6EMI	50.8mm x 50.8mm PanelMax™ Shielded Wiring Duct; 6-foot length. Foil metal finish includes anti-oxidizing paste. Cover sold separately.	12
G2X3LG6EMI	50.8mm x 76.2mm PanelMax™ Shielded Wiring Duct; 6-foot length. Foil metal finish includes anti-oxidizing paste. Cover sold separately.	12
G2X4LG6EMI	50.8mm x 101.6mm PanelMax™ Shielded Wiring Duct; 6-foot length. Foil metal finish includes anti-oxidizing paste. Cover sold separately.	12

Use C2LG6 or C2WH6 cover with shielded wiring duct. Standard package quantity in feet.
For tool information refer to www.panduit.com/tools.

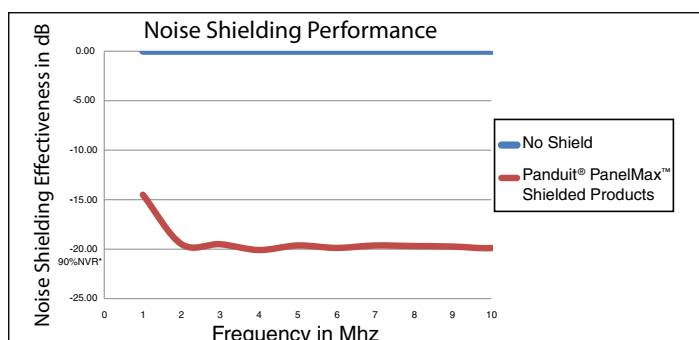
C2.
Abrasion
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Systems

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Labels

Performance Characteristics



Relative noise reduction in decibels over frequency range of Panduit® PanelMax™ Shielded Wiring Duct and Noise Shield

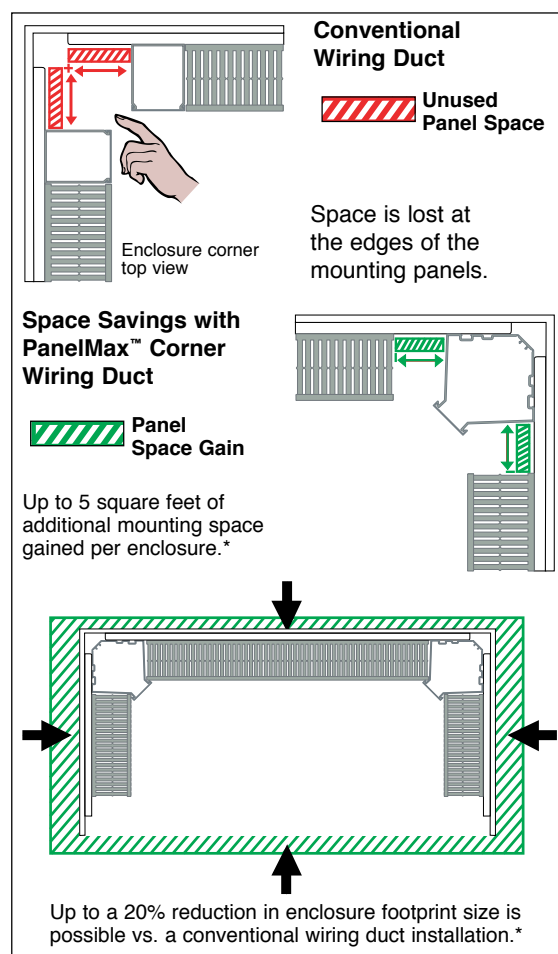
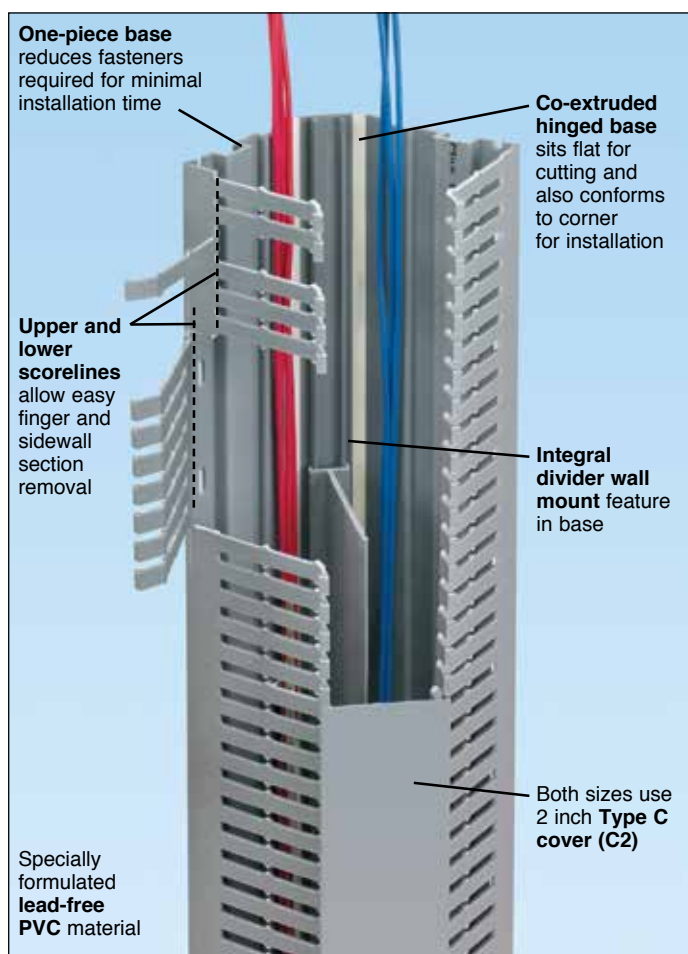
PanelMax™ Shielded Wiring Duct and Noise Shield deliver approximately 20dB of noise reduction across common industrial noise frequencies at 30mm wire separation with an approximate 1-meter coupling length.

*NVR (Noise Voltage Reduction percentage).

E3.
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Features and Benefits – Panduit® PanelMax™ Corner Wiring Duct



Panduit® Type C Cover with Protective Film

Reduces scrap and labor costs by protecting the surface during storage, handling, and installation.



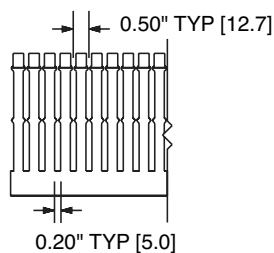
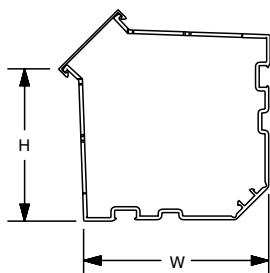
Panduit® Divider Wall

Creates separate wiring channels within the wiring duct base. Available in solid or slotted wall styles.

*Actual subpanel space savings will vary depending on wiring duct size, component layout, and enclosure size and type. Footprint savings is based on commercially available enclosures and may not be achievable in some applications.

PanelMax™ Corner Wiring Duct

- Fits in the unused space in the vertical corner of enclosures, gaining sub-panel space or saving enclosure footprint area
- One-piece base requires less time to install than multi-piece solutions
- Optional quick mount clips engage anywhere along the product base further reducing assembly costs
- Panduit® divider wall snaps directly to the integrated mounting feature in the channel to create two separate channels
- Compatible with Panduit 50.8mm, 76.2mm and 101.6mm height wiring duct; all product sizes use standard 2 inch wiring duct cover
- Base and cover length is 1828.8mm
- Base and covers sold separately



To order cover with protective film add “-F” to part number. 152.4mm cover not available with protective film.



Part Number	Duct Size W x H		Slot Width		Cover Part Number	Std. Pkg. Qty.	Base Ctn. Qty.	Cover Ctn. Qty.
	In.	mm	In.	mm				
CWD2LG6	3.35 x 2.57	85.0 x 65.3	0.2	5.0	C2LG6	6	24	120
CWD3LG6	4.40 x 3.57	111.8 x 90.7	0.2	5.0	C2LG6	6	24	120
CWD4LG6	5.33 x 4.58	135.3 x 115.7	0.2	5.0	C2LG6	6	24	120
CWD2WH6	3.35 x 2.57	85.0 x 65.3	0.2	5.0	C2WH6	6	24	120
CWD3WH6	4.40 x 3.57	111.8 x 90.7	0.2	5.0	C2WH6	6	24	120
CWD4WH6	5.33 x 4.58	135.3 x 115.7	0.2	5.0	C2WH6	6	24	120

For tool information refer to www.panduit.com/tools.



CDLB



CDCLP

Part Number	Part Description	Fastener Size	Std. Pkg. Qty.	Std. Ctn. Qty.
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Quick Mount Clips

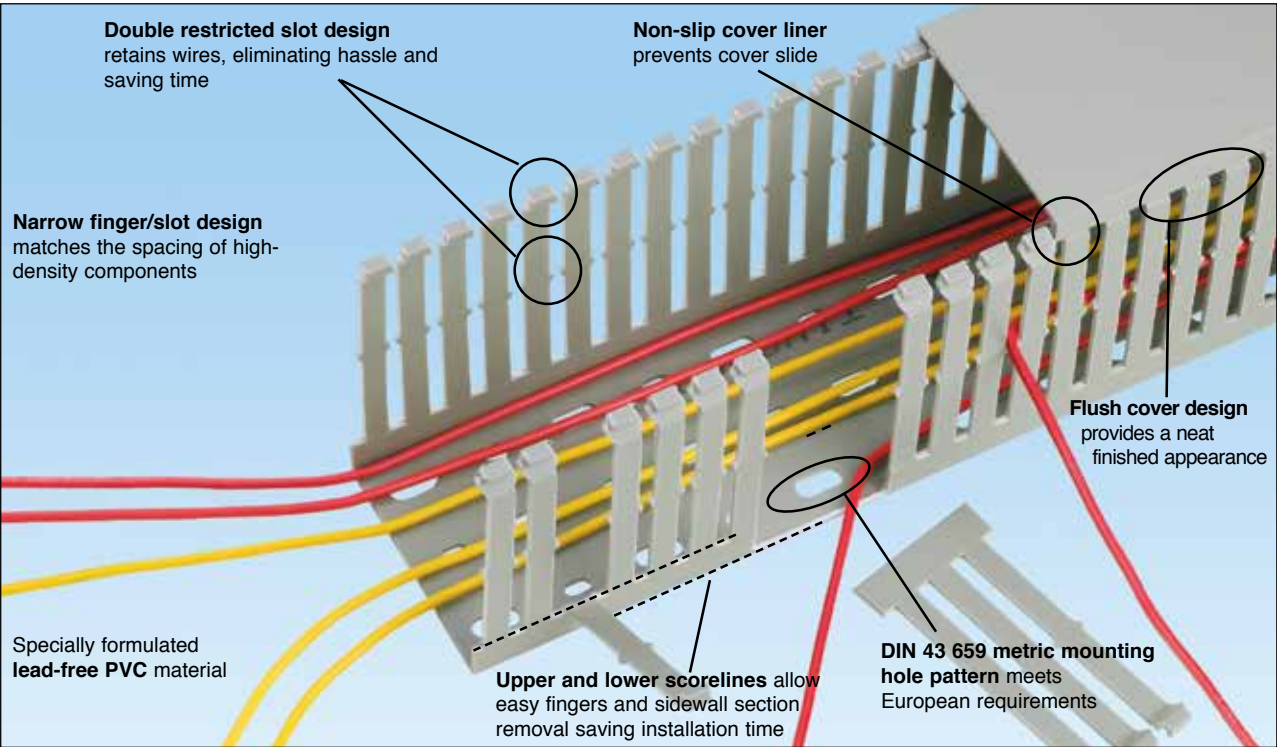
CDLB3	L-bracket with quick mounting clip for installing CWD3 to back panel only.	#10-32 x 1/4 (user supplied)	16	—
CDLB4	L-bracket with quick mounting clip for installing CWD4 to back panel only.	#10-32 x 1/4 (user supplied)	16	—
CDCLP2	Quick mounting clip for installing CWD2 corner wiring duct.	#10-32 x 1/4 (user supplied)	16	—
CDCLP3	Quick mounting clip for installing CWD3 corner wiring duct.	#10-32 x 1/4 (user supplied)	16	—
CDCLP4	Quick mounting clip for installing CWD4 corner wiring duct.	#10-32 x 1/4 (user supplied)	16	—

4 brackets are needed for each 6' of corner wiring duct
For tool information refer to www.panduit.com/tools.

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Features and Benefits – Panduct® Type MC Metric Narrow Slot Wiring Duct

Available in 20 sizes from 25mm x 25mm up to 100mm x 100mm in international gray and white colors.



Panduct® Wire Retainers for Type MC Wiring Duct

Contain wiring when duct cover is opened. Wire retainers snap easily between duct fingers.

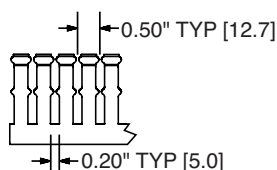
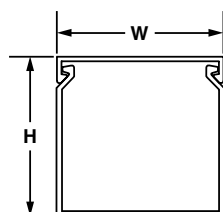
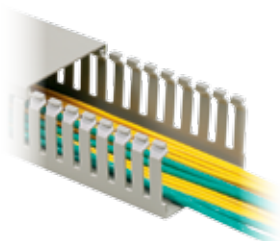


Panduct® Divider Wall

Create separate wiring channels within the wiring duct base. Available in solid or slotted wall styles.

Panduit® Type MC Metric Narrow Slot Wiring Duct

- CE compliant and metric sizing for control panels intended for European applications
- Material: Lead-free PVC
- UL recognized continuous use temperature: 122°F (50°C)
- UL 94 flammability rating of V-0
- Conforms with NFPA 79-2015 section 13.3.1 requirement for flame retardant material
- Provided with DIN 43 659 mounting holes
- Duct and cover packaged together in 2m lengths



Multiple slot restrictors present with 62mm and greater duct wall height.

Base and Cover Part Number	Duct Size (W x H)*		Slot Width		Replacement Cover Part Number	Base and Cover Pkg. Qty. (m)	Replacement Cover Std. Pkg. Qty. (m)
	mm	In.	mm	In.			
MC25X25IG2	24.6 x 23.6	0.97 x 0.93	5.0	0.20	C25IG2	20	20
MC25X37IG2	24.6 x 35.8	0.97 x 1.41	5.0	0.20	C25IG2	20	20
MC25X50IG2	24.6 x 47.8	0.97 x 1.88	5.0	0.20	C25IG2	20	20
MC25X62IG2	24.6 x 59.7	0.97 x 2.35	5.0	0.20	C25IG2	20	20
MC25X75IG2	24.6 x 72.4	0.97 x 2.85	5.0	0.20	C25IG2	20	20
MC37X37IG2	37.4 x 35.8	1.47 x 1.41	5.0	0.20	C37IG2	20	20
MC37X50IG2	37.1 x 47.8	1.46 x 1.88	5.0	0.20	C37IG2	20	20
MC37X62IG2	37.1 x 59.7	1.46 x 2.35	5.0	0.20	C37IG2	20	20
MC37X75IG2	37.1 x 72.4	1.46 x 2.85	5.0	0.20	C37IG2	20	20
MC50X50IG2	49.5 x 47.8	1.95 x 1.89	5.0	0.20	C50IG2	20	20
MC50X75IG2	49.5 x 72.4	1.95 x 2.85	5.0	0.20	C50IG2	10	20
MC50X100IG2	49.5 x 97.8	1.95 x 3.85	5.0	0.20	C50IG2	10	20
MC62X62IG2	62.0 x 59.7	2.44 x 2.35	5.0	0.20	C62IG2	20	20
MC75X50IG2	74.7 x 48.0	2.94 x 1.89	5.0	0.20	C75IG2	20	20
MC75X62IG2	74.7 x 59.7	2.94 x 2.35	5.0	0.20	C75IG2	20	20
MC75X75IG2	74.7 x 72.4	2.94 x 2.85	5.0	0.20	C75IG2	10	20
MC75X100IG2	74.7 x 97.8	2.94 x 3.85	5.0	0.20	C75IG2	10	20
MC100X50IG2	99.6 x 48.0	3.92 x 1.89	5.0	0.20	C100IG2	10	20
MC100X75IG2	99.6 x 72.4	3.92 x 2.85	5.0	0.20	C100IG2	10	20
MC100X100IG2	99.6 x 97.8	3.92 x 3.85	5.0	0.20	C100IG2	10	20

Available in IG (International Gray) and WH (White) colors.

Base and cover sold together.

*"H" dimension includes duct and cover.

For tool information refer to www.panduit.com/tools.

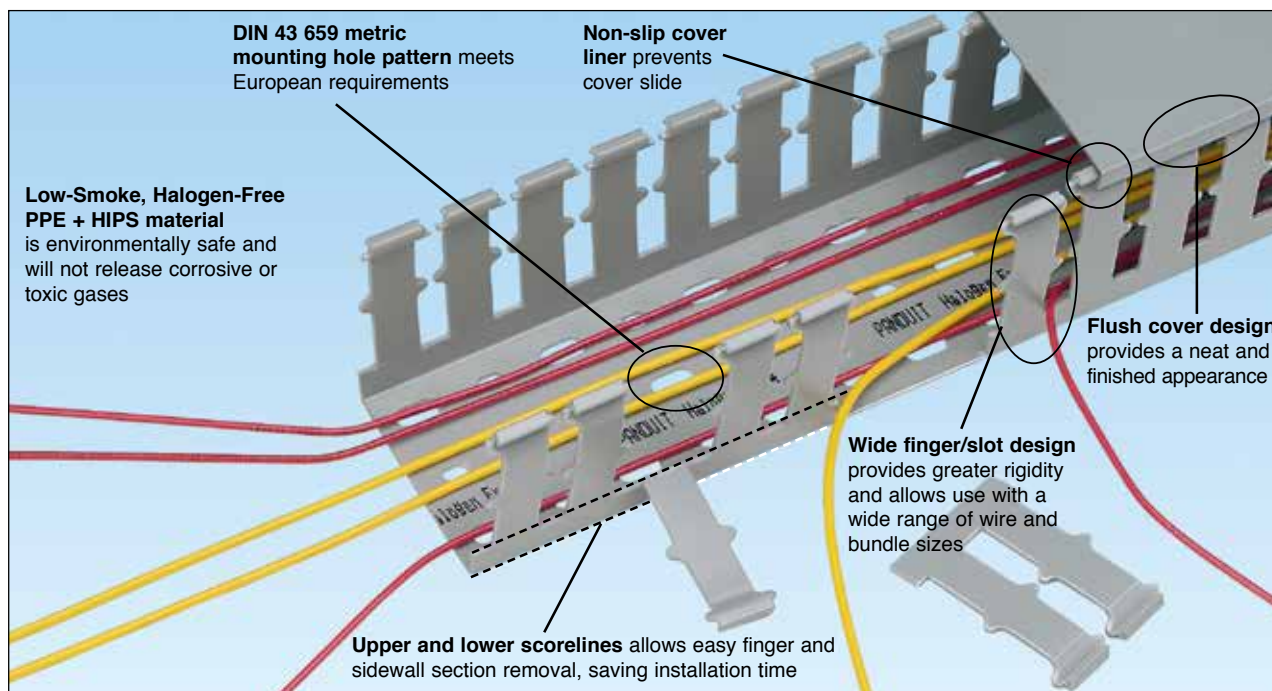
B1.
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Wiring Duct for Special Environments including Mass Transit

Features and Benefits - Panduct Type TNC Low-Smoke, Halogen-Free Metric Wiring Duct

EN45545-2 HL2 certification for Interior (R22) & Exterior (R23)

Available in eight sizes from 25mm x 37mm up to 100mm x 75mm in light gray.



Panduct® Type TNC Low-smoke, Halogen-free Solid Divider Wall

Create separate channels within the wiring duct base.

TNC Wiring Duct Material (PPE+HIPS)		
Properties	General	Test Method
Specific Gravity	1.11 g/cc	ASTM D 792
Heat Deflection Temperature @264 psi	105°C 221°F	ASTM D 648
Flame/Smoke/Toxicity		
Smoke Density (Flaming) @ 1.5 and 4 min.	Ds @ 1.5 min = 16 Ds @ 4.0 min = 66	ASTM E 662
Flammability Class	V-0	UL94
Flame Spread Index	Is =15	ASTM E 162
Total Heat Release	66.21 MJ/m ²	ASTM E1354
Low Toxicity	Yes	BSS 7239
Mechanical		
Tensile Strength at Yield	8,100 psi	ASTM D 638
Tensile Modulus	355,000 psi	ASTM D 638
Flexural Strength at Yield	11,500 psi	ASTM D 790
Flexural Modulus	340,000 psi	ASTM D 790
Notched Izod Impact Strength @ 23°C (73°F)	3.7 ft-lb/in.	ASTM D 256

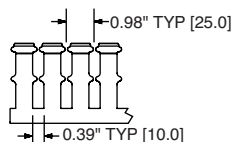
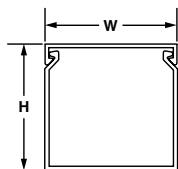
PPE + HIPS (Polyphenylene Ether + High Impact Polystyrene)

Rail Standard Compliance/Ratings		
NFPA 130 (U.S. Standard for Fixed Guideway Transit and Passenger Rail Systems)	Pass (Is<35, Ds1.5<100, Ds4<200)	ASTM E 162; ASTM E 662
EN 45545-2 (EU Standard: Railway applications - Fire protection on railway vehicles - Part 2: Requirements for fire behavior of materials and components)	HL2 – R22 (Interior) HL2 – R23 (Exterior)	EN 45545-2 BS EN ISO 4589-2 NF X 70-100 ISO 5659-2
DIN 5510 (Preventative fire protection in railway vehicles)	Burning class: S-4 Smoke class: SR-2 Dripping class: ST-2	DIN 5510-2; DIN54837
NF F16 101, NF F 16 102 (smoke density, toxicity, glowing filament, oxygen index)	F1/I4	NF X 1-702 NF X 70-100 NF EN 60695-2 NF EN ISO 4589-2
UNIFER Italian Railway Standard	Pass	EN UNI 11925-2 (EN ISO 11925-2)



Panduct® Type TNC Low-Smoke, Halogen-Free Metric Wiring Duct

- Material: Polyphenylen Ether + High Impact Polystyrene (PPE+HIPS)
- Low-Smoke, Halogen-Free is non-toxic, lead-free, and environmentally safe. Will not exhibit a high rate of smoke generation or release toxic, corrosive gases in the event of a fire that could endanger public safety or damage sensitive electronics in enclosed environments (passenger rail, oil and gas platforms)
- UL recognized continuous use temperature: 221°F (105°C)
- UL 94 flammability rating of V-0
- Conforms with NFPA 79-2015 section 13.3.1 requirement for flame retardant material
- Meets NFPA 130 and FRA requirements for surface flammability and smoke density.
- Meets a Hazard Level Classification of HL2 per European Standard EN 45545-2 for R22 (Interior).
- Meets a Hazard Level Classification of HL2 per European Standard EN 45545-2 for R23 (Exterior).
- Other Rail Standard Compliances (see page C1.18 for details):
- DIN 5510-2
- BSS 7239
- AFNOR NF F 16 101 and NF F 16 102
- UNIFER EN UNI 11925-2 (EN ISO 11925-2)

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Multiple slot restrictors present with 75mm and greater duct wall height.

Base and Cover Part Number	Duct Size (W x H)*		Slot Width		Replacement Cover Part Number	Base and Cover Ctn. Qty. (m)	Replacement Cover Ctn. Qty. (m)
	mm	In.	mm	In.			
TNC25X37LG2	24.6 x 35.8	0.97 x 1.41	10.0	0.39	TNC25LG2	20	20
TNC25X75LG2	24.6 x 72.1	0.97 x 2.84	10.0	0.39	TNC25LG2	20	20
TNC37X37LG2	37.1 x 35.5	1.46 x 1.40	10.0	0.39	TNC37LG2	20	20
TNC37X75LG2	37.1 x 72.4	1.46 X 2.85	10.0	0.39	TNC37LG2	20	20
TNC50X50LG2	49.6 x 47.8	1.95 x 1.88	10.0	0.39	TNC50LG2	20	20
TNC75X75LG2	74.6 x 72.8	2.94 x 2.86	10.0	0.39	TNC75LG2	10	20
TNC100X50LG2	99.6 x 47.8	3.92 x 1.88	10.0	0.39	TNC100LG2	10	20
TNC100X75LG2	99.6 x 72.6	3.92 x 2.86	10.0	0.39	TNC100LG2	10	20

Available in LG (Light Gray) only.

Do not allow cutting, tapping, or cleaning fluids that contain hydrocarbons to come in contact with the Type TNC wiring duct as it will cause stress cracking. Also visit Panduit.com for a list of safe and acceptable lubricants and cleaners that can be used.

"H" dimension includes duct and cover.

For tool information refer to www.panduit.com/tools.

Panduct Type TNC Divider Wall

- TNC solid divider wall can be mounted inside TNC wiring duct to create multiple channels
- Material: Polyphenylen Ether + High Impact Polystyrene (PPE+HIPS)
- Simply install the divider wall base when mounting the duct and snap the divider wall onto mounting base, DB-C



Part Number	Length (m)	For Nominal Duct Height (mm)	Std. Pkg. Qty.	Std. Ctn. Qty.
TNC50D2	2	50	2	40
TNC75D2	2	75	2	40

Available in LG (Light Gray) only.

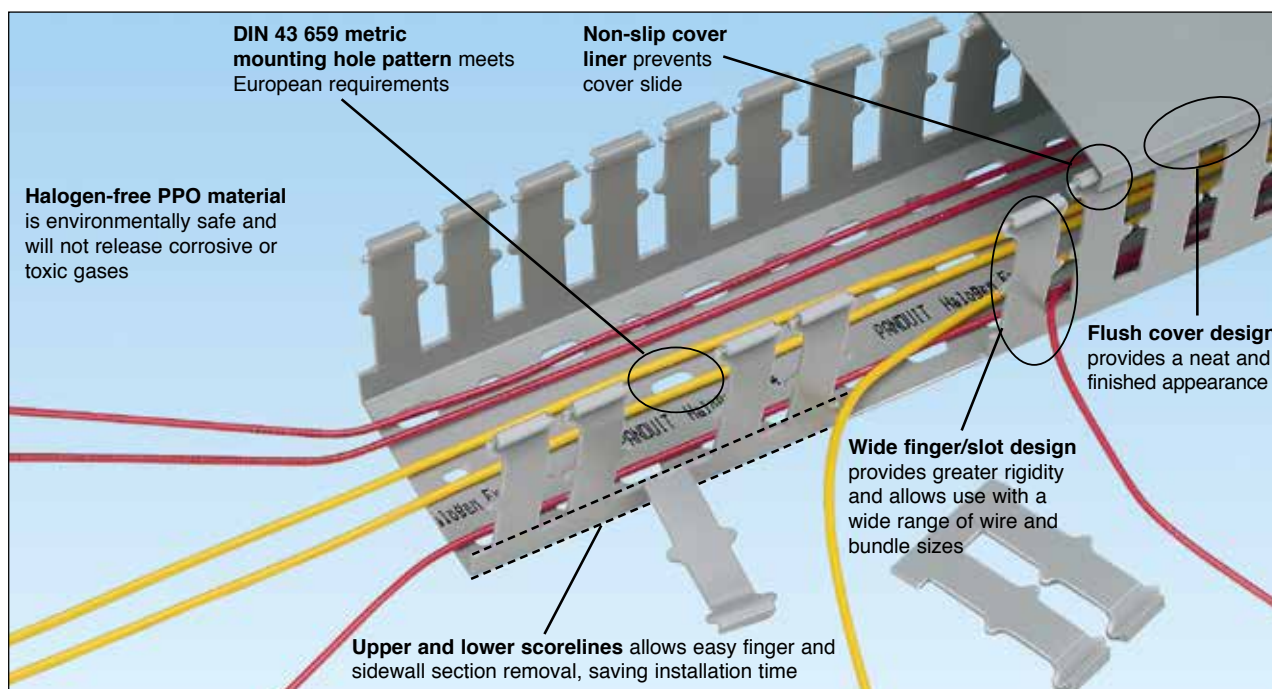
NOTE: Must be used with mounting base DB-C (see page C1.30), which is sold separately. Install mounting bases to the duct channel, locate within 2" of each divider wall end and at least every 12" along the length.

For tool information refer to www.panduit.com/tools.

Wiring Duct for Special Environments

Features and Benefits – Panduct® Type NNC Halogen-Free Metric Wiring Duct

Available in fourteen sizes from 25mm x 25mm up to 100mm x 100mm in light gray and white.



**Panduct® Type NNC
Halogen-free Solid
Divider Wall**

Create separate channels
within the wiring duct base.

Properties	Halogen-Free PPO Material	Test Method
General		
Specific Gravity	1.09 g/cc	ASTM D 792
Mechanical		
Tensile Strength at Yield	7,700 psi	ASTM D 638
Flexural Strength	11,500 psi	ASTM D 790
Flexural Modulus	340,000 psi	ASTM D 790
Notched Izod Impact @ 23°C (73°F)	5.0 ft. – lbs./In.	ASTM D 256
Heat Deflection Temperature @264 psi	102°C (215°F)	ASTM D 648

Properties	Halogen-Free PPO Material	Test Method
Flammability		
Limited Oxygen Index (LOI)	30	ASTM D 2863
Smoke Density (Flaming) @ 4 min.	534	ASTM E 662
Flammability Class @ 0.060"	V-0	UL94
Halogen Free	Yes	IEC 60754-2

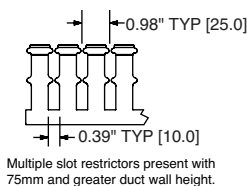
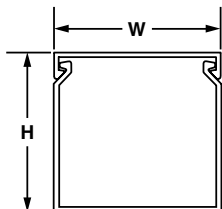
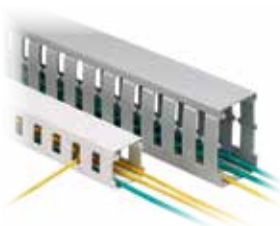
Agency Approvals

UL Recognized file E147128
CSA Certified file 016446-0-00
CE Compliant:
EN 45545-2; HL1 to R R23 (exterior)

Note: DO NOT allow cutting, tapping, or cleaning fluids that contain hydrocarbons to come in contact with Type NNC wiring duct. For a list of recommended lubricants to use with Type NNC wiring duct log on to www.panduit.com

Panduit® Type NNC Halogen-Free Metric Wiring Duct

- Material: Halogen-free polyphenylene oxide (PPO) material as verified with IEC 60754-2 test method (test on gases evolved during combustion of electric cables)
- UL recognized continuous use temperature: 203°F (95°C)
- UL 94 flammability rating of V-0
- Meets a Hazard Level Classification of HL1 per European Standard EN 45545-2 for R23 (exterior).
- Conforms with NFPA 79-2015 section 13.3.1 requirement for flame retardant material
- Provided with DIN 43 659 mounting holes
- Metric sizing and finger progression
- Duct and cover packaged together in two meter lengths



Base and Cover Part Number	Duct Size (W x H)*		Slot Width		Replacement Cover Part Number	Base and Cover Ctn. Qty. (m)	Replacement Cover Ctn. Qty. (m)
	mm	In.	mm	In.			
NNC25X25LG2	24.6 x 23.6	0.97 x 0.93	10.0	0.39	NC25LG2	20	20
NNC25X37LG2	24.6 x 35.8	0.97 x 1.41	10.0	0.39	NC25LG2	20	20
NNC25X50LG2	25.1 x 47.8	0.99 x 1.88	10.0	0.39	NC25LG2	20	20
NNC25X75LG2	24.6 x 72.4	0.97 x 2.85	10.0	0.39	NC25LG2	20	20
NNC37X37LG2	37.1 x 35.8	1.46 x 1.41	10.0	0.39	NC37LG2	20	20
NNC37X50LG2	37.1 x 47.8	1.46 x 1.88	10.0	0.39	NC37LG2	20	20
NNC37X75LG2	37.1 x 72.4	1.46 x 2.85	10.0	0.39	NC37LG2	20	20
NNC50X50LG2	49.5 x 47.8	1.95 x 1.88	10.0	0.39	NC50LG2	20	20
NNC50X75LG2	49.5 x 72.4	1.95 x 2.85	10.0	0.39	NC50LG2	10	20
NNC50X100LG2	49.5 x 97.8	1.95 x 3.85	10.0	0.39	NC50LG2	10	20
NNC75X75LG2	75.4 x 72.4	2.97 x 2.85	10.0	0.39	NC75LG2	10	20
NNC100X50LG2	99.6 x 47.8	3.92 x 1.88	10.0	0.39	NC100LG2	10	20
NNC100X75LG2	99.6 x 72.4	3.92 x 2.85	10.0	0.39	NC100LG2	10	20
NNC100X100LG2	99.6 x 97.8	3.92 x 3.85	10.0	0.39	NC100LG2	10	20

Available in LG (Light Gray) and WH (White).

Do not allow cutting, tapping, or cleaning fluids that contain hydrocarbons to come in contact with type NNC wiring duct as it will cause stress cracking. See page C1.51 for a list of chemicals to avoid.

*"H" dimension includes duct and cover.

For tool information refer to www.panduit.com/tools.

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Panduit® Type NNC Divider Wall

- NNC solid divider wall can be mounted inside NNC and NE wiring duct to create multiple channels
- Material: Halogen-free polyphenylene oxide (PPO)
- Simply install the divider wall base when mounting the duct and snap the divider wall onto mounting base, DB-C



Part Number	Length (m)	For Nominal Duct Height (mm)	Std. Pkg. Qty. (m)	Std. Ctn. Qty. (m)
NNC50DWH2	2	50	2	40
NNC75DWH2	2	75	2	40

Available in WH (White) color only.

NOTE: Must be used with mounting base DB-C (see page C1.30), which is sold separately. Install mounting bases to the duct channel, locate within 2" of each divider wall end and at least every 12" along the length.

For tool information refer to www.panduit.com/tools.

Wirefill Formula

General Formula

Panduit Wiring Duct wirefills are calculated using the following general formula:

$$50\% \text{ Wirefill} = 50\% \text{ of } \left(\frac{\text{Usable Duct Area}}{\text{Wire Area}} \right)$$

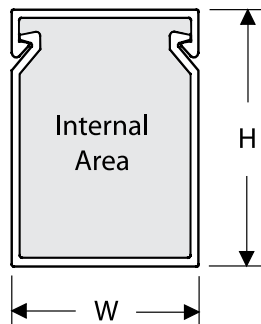
Why use a 50% Wirefill?

As specified in NFPA79-2015 section 13.5.2, *Percentage Fills of Raceways (Ducts)*, a 50% wirefill is given as the maximum wirefill capacity in all Panduit Wiring Ducts. This helps ensure general safe wiring practices are followed. In actual practice, a 50% wirefill is the maximum amount of wiring the duct can hold given the additional airspace created between cables by non-uniform cable shapes, cable interlacing, and cable packing factors.

What is the Usable Duct Area?

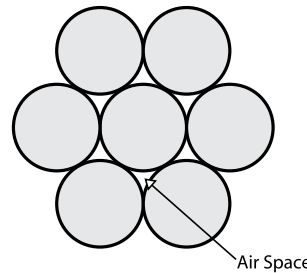
The usable area we define as the calculation of internal area that can be occupied by wires or cables.

Calculation of Internal Area



Since we use the outer channel dimensions in our calculation, we make an adjustment in our formula for the thickness of material and for design elements that extend inside the channel.

Air Space Allotment



In our wirefill formula an adjustment is made to the channel internal area to account for “unusable” air space that will be present between cables when placed in the channel. Our formula assumes a uniform close packed or high-density cable arrangement (see diagram) (Note 1).

Considering these factors, the usable duct area is equal to an average of 90% of the nominal area, or $(W \times H) \times 0.90$.

Wire Area

The wire area formula is converted to allow calculation using the cable diameter:

$$\begin{aligned} A_{\text{WIRE}} &= \pi r^2 \\ A_{\text{WIRE}} &= (\pi/4) \times D^2 \\ A_{\text{WIRE}} &= 0.785 \times D^2 \end{aligned}$$

Formula Derivation

Inserting the elements from above into the general formula results in the following:

Simplifying this formula results in the formula used for wirefill calculation (Note 2):

$$50\% \text{ Wirefill} = 0.50 \left(\frac{(W \times H) \times 0.90}{0.785 \times D^2} \right)$$

$$50\% \text{ Wirefill} = \left(\frac{W \times H}{1.75 \times D^2} \right)$$

Note: When calculating wirefill capacity using the above formula, variables W, H, and D must be expressed in same units (i.e. mm or inches).

- 1 This calculation does not account for additional airspace created between cables by non-uniform cable shapes, cable interlacing, and cable packing factors.
- 2 The resulting formula is used for all Panduit flush cover ducts, this excludes type NE duct which has a different profile design that results in a divisor of $2.0 \times D^2$ (rather than $1.75 \times D^2$ as shown here) and all Hinged Wiring Duct: H, HN, HS with a profile design that results in a divisor of $1.85 \times D^2$ and corner wiring duct which uses calculated internal area and a divisor of $2.0 \times D^2$.

Panduct® Wiring Duct Material Specifications

Properties	Units	Test Method	Lead-Free PVC	Halogen-Free PPO (NNC, NE)	Low-Smoke, Halogen-Free PPE + HIPS (TNC)	Polypropylene (FL)
General						
Specific gravity	g/cc	ASTM D 792	1.45	1.09	1.11	0.95
Heat deflection temperature @264 psi	°F	ASTM D 648	156	215	223	117
Thermal expansion	10-5 in/in/°F	ASTM D 696	3.7	3.8		N/A
Thermal conductivity	(BTU-in/hr-ft²)°F	ASTM C 177	1.3	1.3		N/A
Burning Characteristics						
Flammability class	—	UL 94	V-0	V-0	V-0	V-2
Smoke density @ 4 minutes	—	ASTM E 662	538	513	66	N/A
Limited oxygen index (LOI)	—	ASTM D 2863	35	30	28	25
Peak heat release rate	kW/m²	ASTM E 1354	N/A	N/A	N/A	N/A
Hardness						
Durometer hardness	“D”	ASTM D 2240	78	N/A	N/A	N/A
Rockwell hardness	“R”	ASTM D 785	111	116	N/A	N/A
Tensile						
Yield Strength	psi	ASTM D 638	6,200	7,700	8,100	3,770
Modulus	psi		390,000	350,000	355,000	172,000
Flexural						
Yield Strength	psi	ASTM D 790	8,700	11,500	11,500	4,350
Modulus	psi		325,000	340,000	340,000	181,250
Impact strength						
Notched Izod (.125")						
23°C (73°F)	ft-lb/in	ASTM D 256	4.0	5.0	3.7	1.8
0°C (32°F)	ft-lb/in		1.6	2.0	N/A	N/A
Electrical Properties						
Power factor:						
60 Hz @30°C (86°F)	—	ASTM D 150	2.90	N/A	N/A	N/A
1 MHz @30°C (86°F)	—		4.00	N/A	N/A	N/A
Dielectric constant:						
60 Hz @30°C (86°F)	—	ASTM D 150	3.90	N/A	N/A	N/A
1 MHz @30°C (86°F)	—		3.30	N/A	N/A	N/A
Dielectric strength:						
Unconditioned	volts/mil	ASTM D 149	690	N/A	N/A	N/A
Conditioned	volts/mil		700	N/A	N/A	N/A
Note: To the best of our knowledge the above information is accurate. Panduit assumes no liability for the accuracy or completeness of this information. For tool information refer to www.panduit.com/tools .						

Rigid Polyvinyl Chloride (PVC)

A general purpose lead-free material for indoor applications. It has a UL 94 flame class of V-0 with a UL recognized continuous-use temperature up to 122°F (50°C). Used in the manufacture of the following types of Panduit wiring duct and covers: G, F, D, FS, MC, H, HN, HS, CWD, DRD.

Halogen-Free, Polyphenylene Oxide (PPO)

A special purpose material for use in halogen-free or high-temperature applications. It has a UL 94 flame class of V-0 with a UL recognized continuous-use temperature up to 95°C (203°F) and is 20% lighter than PVC. Used in the manufacture of the following types of Panduit wiring duct and covers: NE and NNC.

Low-Smoke, Halogen-Free, Polyphenylene Ether + High Impact Polystyrene (PPE + HIPS)

A special purpose material for use in low-smoke, halogen-free, and high-temperature applications. It has a UL 94 flame class of V-0 with a UL recognized continuous-use temperature up to 221°F (105°C). Meets the regulatory requirements of the mass transit industry and other applications where fire and public safety are critical; such as in trains, buses, offshore oil and gas platforms, and other similar environments. Used in the manufacture of Type TNC wiring duct and covers.

Polypropylene (PP)

A flexible material with a UL 94 flame class of V-2 with a UL recognized continuous-use temperature up to 65°C (149°F). Used in the manufacture of Type FL flexible wiring duct.

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Panduit Wiring Duct Approvals and Compliances

Agency Mark	Agency	Requirement	Classification/Performance	Wiring Duct Types/Products
	Underwriters Laboratories, Inc. File No. E147128	UL 1565	Material Flame Class V-0 Continuous-use temperature up to 50°C (122°F)	All wiring duct types and covers
		UL 1565 CSA C22.2 No. 18.5-13	Material Flame Class V-0 Continuous-use temperature up to 50°C (122°F)	Type H, HS, HN, and DRD
	Underwriters Laboratories, Inc.	UL 508 Section 15	An insulating barrier material shall comply with the minimum material properties indicated in Table 15.1	PVC divider walls
		UL 508 Sections 34 and 181	Qualifies as a metal barrier with required thickness as indicated in Table 6.1	SD*EMI metal barrier
	Canadian Standards Association File No. 016446	CSA C22.2 No. 18.5-13	Material Flame Class V-0 Continuous-use temperature up to 50°C (122°F)	All wiring duct types and covers (except H, HS, and HN)
	European Union	Low Voltage Directive 2014/35/EU	• CDS (cable ducting system for impact 2 J) • Minimum storage, transport, installation, and application temperature: -5°C (23°F) • Maximum application temperature: 60°C (140°F) • Non-flame propagating • Without electrical continuity • Cover removable without a tool	H, HS, G, F, D, MC, FS, NNC, NE, DRD, and TNC
		EN 50085-1 EN 50085-2-3		
		EN 45545-2	Type NNC and Type NE: Exterior (R23) - HL1 Type TNC: Interior (R22)- HL2 & Exterior (R23) - HL2	NNC and TNC
	DIN German Institute for Standardization	DIN 43659	• Specifies dimensions for slotted trunkings used in electrical switch-gear assemblies and that conform to DIN VDE 060 Part 506 • Channel mounting hole pattern, slot dimensions, pitch, and location • Distance from first to last like-size mounting hole • Minimum overall product length	MC, NNC, and TNC
		DIN 5510-2 DIN 54837	Burning Class: S4 Smoke Class: SR2 Dripping Class: ST2	TNC
	AFNOR French Association of Normalization	NF F 16-101 NF F 16-102	Type NNC Wiring Duct Classification = F3/I4 Type TNC Wiring Duct Classification = F1/I4	NNC and TNC
	UNIFER Italian Railway Standards	EN ISO 11925-2	Pass 30-second flame application	TNC
	FRA – Federal Railroad Administration	49 CFR Part 238	Surface Flammability: < 35 Smoke Density Ds (1.5) < 100 Ds (4.0) < 200	TNC
	NFPA – National Fire Protection Association	NFPA130		
	National Fire Protection Association	NFPA 79-2015, Section 13.3.1 IEC 60332-1	Non-metallic duct shall be permitted (inside enclosures) only when they are made with a flame-retardant material; flame-retardant material is defined in the standard by the IEC 60332-1 test method	All wiring duct types and covers (except FL)
		NFPA 79-2015, Section 13.5.2	Panduit publishes a maximum percentage wire fill for common wire types equal to 50% of the interior cross-sectional area of the wiring duct	All wiring duct types and covers
		NFPA 79-2015, section 13.1.6.9	Panduit bend radius control accessories can be mounted at right angles and T junctions created using wiring duct in order to maintain cable bend radius control	Corner strip with 1" bend radius control
	European Union	European Union Directive 2011/65/EU.	Meets the requirements on the Restriction of Hazardous Substances and is free of the six substances listed in the directive	All wiring duct products

Abrasion Protection

Panduit® abrasion protection products provide an economical and easy way to insulate, protect, bundle and color-code components and cable. A wide variety of sizes and materials are available to meet a broad range of indoor and outdoor applications. To help assure optimum quality, Panduit abrasion protection products are designed and manufactured to meet applicable quality standards including International, UL, Military, ISO, and Aerospace.



- **Pan-Wrap™ Split Harness Wrap features a patented slot pattern to improve flexibility and abrasion protection**
- **Spiral wrap bundles and protects wire and cable while providing the largest variety of colors, materials, and sizes to meet a variety of needs**
- **Grommet edging protects wire and cable from damage caused by sharp panel edges**
- **Braided expandable sleeving provides continuous abrasion resistance and lightweight durable protection, with a flexible open weave that will not trap heat or humidity**

Panduit abrasion protection products provide quality at the lowest installed cost. With a continued focus on new product development, Panduit continues to meet customer needs.

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If you are missing information from this catalog, please refer to the Full line catalog posted on panduit.com.

Pan-Wrap™ Split Harness Wrap

- Patented slot pattern provides improved flexibility and abrasion protection in any application
- Unique wall design provides for easy cable breakouts
- Innovative design maintains uniform bundle protection in dynamic applications
- Considerably reduces installation time
- Large overlap accommodates a wide range of bundle diameters
- Packaged on a reel for easy handling and dispensing of product
- UL File: E141152
- Voltage rating: 600 V



Part Number	Material	Color	Length Per Reel		Max. Bundle Diameter		Min. Bundle Diameter‡		Temperature Range	Nominal I.D.		Std. Pkg. Qty.*
			Ft.	m	In.	mm	In.	mm		In.	mm	
PW50F-T	Polyethylene	Natural	200	61.0	0.55	14.0	0.43	10.9	-40°F – 122°F (-40°C – 50°C)	0.50	12.7	1
PW50F-T20	Polyethylene	Black	200	61.0	0.55	14.0	0.43	10.9		0.50	12.7	1
PW50F-T3	Polyethylene	Orange	200	61.0	0.55	14.0	0.43	10.9		0.50	12.7	1
PW50F-T4	Polyethylene	Yellow	200	61.0	0.55	14.0	0.43	10.9		0.50	12.7	1
PW50FR-TY	Flame Retardant Polyethylene	Natural	200	61.0	0.55	14.0	0.43	10.9	-4°F – 122°F (-20°C – 50°C)	0.50	12.7	1
PW50FR-T20Y	Flame Retardant Polyethylene	Black	200	61.0	0.55	14.0	0.43	10.9		0.50	12.7	1
PW75F-C	Polyethylene	Natural	100	30.5	0.81	20.6	0.55	14.0	-40°F – 122°F (-40°C – 50°C)	0.75	19.1	1
PW75F-C20	Polyethylene	Black	100	30.5	0.81	20.6	0.55	14.0		0.75	19.1	1
PW75F-C3	Polyethylene	Orange	100	30.5	0.81	20.6	0.55	14.0		0.75	19.1	1
PW75F-C4	Polyethylene	Yellow	100	30.5	0.81	20.6	0.55	14.0		0.75	19.1	1
PW75FR-CY	Flame Retardant Polyethylene	Natural	100	30.5	0.81	20.6	0.55	14.0	-4°F – 122°F (-20°C – 50°C)	0.75	19.1	1
PW75FR-C20Y	Flame Retardant Polyethylene	Black	100	30.5	0.81	20.6	0.55	14.0		0.75	19.1	1
PW100F-C	Polyethylene	Natural	100	30.5	1.13	28.6	0.81	20.6	-40°F – 122°F (-40°C – 50°C)	1.00	25.4	1
PW100F-C20	Polyethylene	Black	100	30.5	1.13	28.6	0.81	20.6		1.00	25.4	1
PW100F-C3	Polyethylene	Orange	100	30.5	1.13	28.6	0.81	20.6		1.00	25.4	1
PW100F-C4	Polyethylene	Yellow	100	30.5	1.13	28.6	0.81	20.6		1.00	25.4	1
PW100FR-CY	Flame Retardant Polyethylene	Natural	100	30.5	1.13	28.6	0.81	20.6	-4°F – 122°F (-20°C – 50°C)	1.00	25.4	1
PW100FR-C20Y	Flame Retardant Polyethylene	Black	100	30.5	1.13	28.6	0.81	20.6		1.00	25.4	1
PW150F-L	Polyethylene	Natural	50	15.2	1.63	41.3	1.13	28.6	-40°F – 122°F (-40°C – 50°C)	1.50	38.1	1
PW150F-L20	Polyethylene	Black	50	15.2	1.63	41.3	1.13	28.6		1.50	38.1	1
PW150F-L3	Polyethylene	Orange	50	15.2	1.63	41.3	1.13	28.6		1.50	38.1	1
PW150F-L4	Polyethylene	Yellow	50	15.2	1.63	41.3	1.13	28.6		1.50	38.1	1
PW150FR-LY	Flame Retardant Polyethylene	Natural	50	15.2	1.63	41.3	1.13	28.6	-4°F – 122°F (-20°C – 50°C)	1.50	38.1	1
PW150FR-L20Y	Flame Retardant Polyethylene	Black	50	15.2	1.63	41.3	1.13	28.6		1.50	38.1	1

‡Diameter can be further reduced with the use of Panduit cable ties.

*Order number of reels required.

**FR-20 is not weather resistant.

Pan-Wrap™ Installation Tools

- Patented installation tool with 180° opening allows easy loading of maximum bundle diameters to speed installation, providing the lowest installed cost
- The Pan-Wrap installation tool is designed for use with our Pan-Wrap Split Harness Wrap, Pan-Wrap Braided Sleeving and Corrugated Loom Tubing Products



Part Number	Color	For Use With	Std. Pkg. Qty.**
PWT38	White	Pan-Wrap Braided Sleeving – Size: 6.35mm Slit Wall Corrugated Loom Tubing – Size: 9.525mm	1
PWT50	White	Pan-Wrap Split Harness Wrap – Size: 12.7mm Pan-Wrap Braided Sleeving – Size: 12.7mm Slit Wall Corrugated Loom Tubing – Size: 12.7mm	1
PWT75	White	Pan-Wrap Split Harness Wrap – Size: 19.05mm Pan-Wrap Braided Sleeving – Size: 19.05mm Slit Wall Corrugated Loom Tubing – Size: 19.05mm	1
PWT100	White	Pan-Wrap Split Harness Wrap – Size: 25.4mm Pan-Wrap Braided Sleeving – Size: 25.4mm Slit Wall Corrugated Loom Tubing – Size: 25.4mm	1
PWT150	White	Pan-Wrap Split Harness Wrap – Size: 38.1mm Pan-Wrap Braided Sleeving – Size: 38.1mm Slit Wall Corrugated Loom Tubing – Size: 38.1mm	1

**Order number of tools required.

Part Number System for Grommet Edging

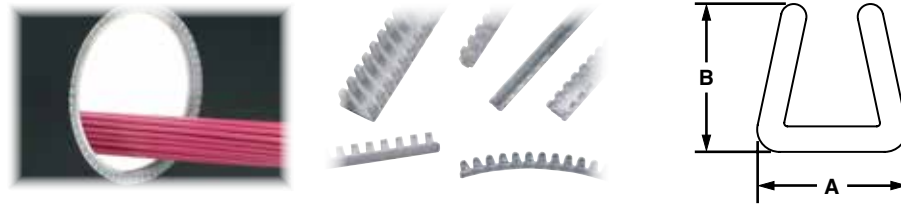
<u>GEE</u>	<u>36</u>	<u>F</u>	—	<u>A</u>	—	<u>C</u>	<u>0</u>
Type	Max. Panel Thickness	Material		Adhesive		Package Size	Color Suffix
GE = Grommet Edging Strips	36 = 0.91mm thickness	F = Polyethylene		A = Adhesive Lined		Q = 25'	0 = Weather Resistant Black
GEE = Slotted Grommet Edging	62 = 1.57mm thickness	N = Nylon 6.6		Leave Blank = Non-Adhesive		L = 50'	Leave Blank = Natural
	99 = 2.51mm thickness	FR = Flame Retardant Polyethylene				C = 100'	
GES = Solid Grommet Edging	144 = 3.66mm thickness						
	189 = 4.80mm thickness						

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Grommet Edging

- Use slotted product on irregularly shaped and round panel holes
- Solid product is used only on straight edges
- Provided in 0.030" (0.8mm) thick material making it highly flexible
- UL File: E351393 (Nylon Materials is not UL Recognized)
- Adhesive Lined Grommet Edging: 3 year shelf life



Part Number	Width A		Height B		Panel Thickness Range		Material	Color	Temperature Range	Std. Pkg. Qty.‡
	In.	mm	In.	mm	In.	mm				
Slotted										
GEE36F-C	0.11	2.7	0.12	3.0	0.026 – 0.036	0.7 – 0.9	Polyethylene	Natural	-40°F – 122°F (-40°C – 50°C)	1
GEE36F-C0	0.11	2.7	0.12	3.0	0.026 – 0.036	0.7 – 0.9	Weather Resistant Polyethylene	Black		1
GEE62F-C	0.13	3.3	0.16	4.1	0.036 – 0.062	0.9 – 1.6	Polyethylene	Natural		1
GEE62F-C0	0.13	3.3	0.16	4.1	0.036 – 0.062	0.9 – 1.6	Weather Resistant Polyethylene	Black		1
GEE99F-C	0.17	4.3	0.19	4.7	0.062 – 0.099	1.6 – 2.5	Polyethylene	Natural		1
GEE99F-C0	0.17	4.3	0.19	4.7	0.062 – 0.099	1.6 – 2.5	Weather Resistant Polyethylene	Black		1
GEE144F-C	0.21	5.4	0.22	5.6	0.099 – 0.144	2.5 – 3.7	Polyethylene	Natural		1
GEE144F-C0	0.21	5.4	0.22	5.6	0.099 – 0.144	2.5 – 3.7	Weather Resistant Polyethylene	Black		1

Solid – Use on straight edges only

GES36F-C	0.11	2.7	0.12	3.0	0.026 – 0.036	0.7 – 0.9	Polyethylene	Natural	-40°F – 122°F (-40°C – 50°C)	1
GES36F-C0	0.11	2.7	0.12	3.0	0.026 – 0.036	0.7 – 0.9	Weather Resistant Polyethylene	Black		1
GES62F-C	0.13	3.3	0.16	4.1	0.036 – 0.062	0.9 – 1.6	Polyethylene	Natural		1
GES62F-C0	0.13	3.3	0.16	4.1	0.036 – 0.062	0.9 – 1.6	Weather Resistant Polyethylene	Black		1
GES99F-C	0.17	4.3	0.19	4.7	0.062 – 0.099	1.6 – 2.5	Polyethylene	Natural		1
GES99F-C0	0.17	4.3	0.19	4.7	0.062 – 0.099	1.6 – 2.5	Weather Resistant Polyethylene	Black		1
GES144F-C	0.21	5.4	0.22	5.6	0.099 – 0.144	2.5 – 3.7	Polyethylene	Natural		1
GES144F-C0	0.21	5.4	0.22	5.6	0.099 – 0.144	2.5 – 3.7	Weather Resistant Polyethylene	Black		1
GES189F-C	0.30	7.6	0.30	7.6	0.144 – 0.189	3.7 – 4.8	Polyethylene	Natural		1
GES189F-C0	0.30	7.6	0.30	7.6	0.144 – 0.189	3.7 – 4.8	Weather Resistant Polyethylene	Black		1

Slotted Adhesive Lined

GEE62F-A-C	0.13	3.3	0.16	4.1	0.036 – 0.062	0.9 – 1.6	Polyethylene	Natural	-40°F – 122°F (-40°C – 50°C)	1
GEE62F-A-C0	0.13	3.3	0.16	4.1	0.036 – 0.062	0.9 – 1.6	Weather Resistant Polyethylene	Black		1
GEE99F-A-C	0.17	4.3	0.19	4.7	0.062 – 0.099	1.6 – 2.5	Polyethylene	Natural		1
GEE99F-A-C0	0.17	4.3	0.19	4.7	0.062 – 0.099	1.6 – 2.5	Weather Resistant Polyethylene	Black		1
GEE144F-A-C	0.21	5.4	0.22	5.6	0.099 – 0.144	2.5 – 3.7	Polyethylene	Natural		1
GEE144F-A-C0	0.21	5.4	0.22	5.6	0.099 – 0.144	2.5 – 3.7	Weather Resistant Polyethylene	Black		1

‡Reel packaging may contain splices. Contact Panduit Customer Service for further information.
Natural color can range from opaque to clear.

Grommet Edging (continued)

Part Number	Width A		Height B		Panel Thickness Range		Material	Color	Temperature Range	Std. Pkg. Qty.†
	In.	mm	In.	mm	In.	mm				
Solid Adhesive Lined – Use on straight edges only										
GES62F-A-C	0.13	3.3	0.16	4.1	0.036 – 0.062	0.9 – 1.6	Polyethylene	Natural	-40°F – 122°F (-40°C – 50°C)	1
GES62F-A-C0	0.13	3.3	0.16	4.1	0.036 – 0.062	0.9 – 1.6	Weather Resistant Polyethylene	Black		1
GES99F-A-C	0.17	4.3	0.19	4.7	0.062 – 0.099	1.6 – 2.5	Polyethylene	Natural		1
GES99F-A-C0	0.17	4.3	0.19	4.7	0.062 – 0.099	1.6 – 2.5	Weather Resistant Polyethylene	Black		1
GES144F-A-C	0.21	5.4	0.22	5.6	0.099 – 0.144	2.5 – 3.7	Polyethylene	Natural		1
GES144F-A-C0	0.21	5.4	0.22	5.6	0.099 – 0.144	2.5 – 3.7	Weather Resistant Polyethylene	Black		1
Slotted Flame Retardant										
GEE36FR-CY	0.11	2.7	0.12	3.0	0.026 – 0.036	0.7 – 0.9	Flame Retardant Polyethylene	Natural	-4°F – 122°F (-20°C – 50°C)	1
GEE62FR-CY	0.13	3.3	0.16	4.1	0.036 – 0.062	0.9 – 1.6	Flame Retardant Polyethylene	Natural		1
GEE99FR-CY	0.17	4.3	0.19	4.7	0.062 – 0.099	1.6 – 2.5	Flame Retardant Polyethylene	Natural		1
GEE144FR-CY	0.21	5.4	0.22	5.6	0.099 – 0.144	2.5 – 3.7	Flame Retardant Polyethylene	Natural		1
Solid Flame Retardant – Used on straight edges only										
GES36FR-CY	0.11	2.7	0.12	3.0	0.026 – 0.036	0.7 – 0.9	Flame Retardant Polyethylene	Natural	-4°F – 122°F (-20°C – 50°C)	1
GES62FR-CY	0.13	3.3	0.16	4.1	0.036 – 0.062	0.9 – 1.6	Flame Retardant Polyethylene	Natural		1
GES99FR-CY	0.17	4.3	0.19	4.7	0.062 – 0.099	1.6 – 2.5	Flame Retardant Polyethylene	Natural		1
GES144FR-CY	0.21	5.4	0.22	5.6	0.099 – 0.144	2.5 – 3.7	Flame Retardant Polyethylene	Natural		1
Slotted Nylon										
GEE47N-C	0.13	3.2	0.14	3.6	0.039 – 0.055	1.0 – 1.4	Nylon 6	Natural	-40°F – 149°F (-40°C – 65°C)	1
GEE55N-C	0.13	3.4	0.14	3.6	0.047 – 0.063	1.2 – 1.6	Nylon 6	Natural		1
GEE71N-C	0.15	3.8	0.14	3.6	0.063 – 0.079	1.6 – 2.0	Nylon 6	Natural		1
GEE98N-C	0.18	4.6	0.14	3.6	0.091 – 0.106	2.3 – 2.7	Nylon 6	Natural		1
GEE134N-C	0.21	5.3	0.14	3.6	0.126 – 0.142	3.2 – 3.6	Nylon 6	Natural		1
National Aerospace Standard** NAMS21266 in 12.75" Lengths										
GE52-C	0.15	3.8	0.16	3.9	0.015 – 0.052	0.4 – 1.3	Nylon 6.6	Natural	-40°F – 149°F (-40°C – 65°C)	100
GE52-C69*	0.15	3.8	0.16	3.9	0.015 – 0.052	0.4 – 1.3	Flame Retardant Nylon 6.6	Natural	-40°F – 212°F (-40°C – 100°C)	100
GE85-C	0.18	4.5	0.16	3.9	0.052 – 0.085	1.3 – 2.2	Nylon 6.6	Natural	-40°F – 149°F (-40°C – 65°C)	100
GE85-C69*	0.18	4.5	0.16	3.9	0.052 – 0.085	1.3 – 2.2	Flame Retardant Nylon 6.6	Natural	-40°F – 212°F (-40°C – 100°C)	100
GE128-C	0.22	5.6	0.16	3.9	0.085 – 0.128	2.2 – 3.3	Nylon 6.6	Natural	-40°F – 149°F (-40°C – 65°C)	100
GE128-C69*	0.22	5.6	0.16	3.9	0.085 – 0.128	2.2 – 3.3	Flame Retardant Nylon 6.6	Natural	-40°F – 212°F (-40°C – 100°C)	100
GE192-L	0.33	8.3	0.23	5.8	0.128 – 0.192	3.3 – 4.9	Nylon 6.6	Natural	-40°F – 149°F (-40°C – 65°C)	50
GE192-L69*	0.33	8.3	0.23	5.8	0.128 – 0.192	3.3 – 4.9	Flame Retardant Nylon 6.6	Natural	-40°F – 212°F (-40°C – 100°C)	50
GE255-L	0.39	9.8	0.24	6.1	0.192 – 0.255	4.9 – 6.5	Nylon 6.6	Natural	-40°F – 149°F (-40°C – 65°C)	50
GE318-L	0.46	11.3	0.26	6.5	0.255 – 0.318	6.5 – 8.1	Nylon 6.6	Natural		50
GE380-Q	0.52	13.1	0.26	6.5	0.318 – 0.380	8.1 – 9.7	Nylon 6.6	Natural		25
GE510-Q	0.64	16.3	0.26	6.5	0.380 – 0.510	9.7 – 13.0	Nylon 6.6	Natural		25

†Reel packaging may contain splices. Contact Panduit Customer Service for further information.

*This material is not specified under NASM21266

**Formerly Military Standard MS21266

B1.
Cable Ties
and ToolsB2.
Cable
AccessoriesB3.
Stainless Steel
Cable Ties,
Tools and
AccessoriesC1.
Wiring
DuctC2.
Abrasion
ProtectionD1.
Terminals
and
FerrulesE1.
Labeling
SystemsE2.
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Permanent
IdentificationF.
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Index

Braided Expandable Sleeving – Polyethylene Terephthalate (PET)

- Provides continuous abrasion protection for wires, cables, hoses and tubing
- Highly flexible open weave will not trap heat or humidity
- Allows for use with irregular shapes
- Lightweight, durable protection
- Rated for use up to 257°F (125°C)
- Compliant with U.S. and European passenger rail standards
- UL: E116868
- CSA: 227630



Part Number	Color	Nominal I.D.		Nominal Diameter Range		Length per reel		Std. Pkg. Qty.	Std. Ctn. Qty.
		In.	mm	In.	mm	Ft.	m		
SE12P-TR0	Black	0.12	3.2	0.094 – 0.250	2.4 – 6.4	200	61.0	1	4
SE12P-TR8	Gray	0.12	3.2	0.094 – 0.250	2.4 – 6.4	200	61.0	1	4
SE12P-MR0	Black	0.12	3.2	0.094 – 0.250	2.4 – 6.4	1000	304.8	1	2
SE12P-MR10	White	0.12	3.2	0.094 – 0.250	2.4 – 6.4	1000	304.8	1	2
SE25P-TR0	Black	0.25	6.4	0.125 – 0.375	3.2 – 9.5	200	61.0	1	4
SE25P-TR8	Gray	0.25	6.4	0.125 – 0.375	3.2 – 9.5	200	61.0	1	4
SE25P-MR0	Black	0.25	6.4	0.125 – 0.375	3.2 – 9.5	1000	304.8	1	2
SE25P-MR8	Gray	0.25	6.4	0.125 – 0.375	3.2 – 9.5	1000	304.8	1	2
SE25P-MR10	White	0.25	6.4	0.125 – 0.375	3.2 – 9.5	1000	304.8	1	2
SE38P-TR0	Black	0.38	9.5	0.188 – 0.500	4.8 – 12.7	200	61.0	1	4
SE38P-TR8	Gray	0.38	9.5	0.188 – 0.500	4.8 – 12.7	200	61.0	1	4
SE38P-MR0	Black	0.38	9.5	0.188 – 0.500	4.8 – 12.7	1000	304.8	1	2
SE38P-MR8	Gray	0.38	9.5	0.188 – 0.500	4.8 – 12.7	1000	304.8	1	2
SE38P-MR10	White	0.38	9.5	0.188 – 0.500	4.8 – 12.7	1000	304.8	1	2
SE50P-CR0	Black	0.50	12.7	0.250 – 0.750	6.4 – 19.1	100	30.5	1	4
SE50P-CR8	Gray	0.50	12.7	0.250 – 0.750	6.4 – 19.1	100	30.5	1	4
SE50P-DR0	Black	0.50	12.7	0.250 – 0.750	6.4 – 19.1	500	152.4	1	2
SE50P-DR8	Gray	0.50	12.7	0.250 – 0.750	6.4 – 19.1	500	152.4	1	2
SE50P-DR10	White	0.50	12.7	0.250 – 0.750	6.4 – 19.1	500	152.4	1	2
SE75P-CR0	Black	0.75	19.1	0.500 – 1.25	12.7 – 31.8	100	30.5	1	4
SE75P-CR8	Gray	0.75	19.1	0.500 – 1.25	12.7 – 31.8	100	30.5	1	4
SE75P-DR0	Black	0.75	19.1	0.500 – 1.25	12.7 – 31.8	500	152.4	1	2
SE75P-DR8	Gray	0.75	19.1	0.500 – 1.25	12.7 – 31.8	500	152.4	1	2
SE75P-DR10	White	0.75	19.1	0.500 – 1.25	12.7 – 31.8	500	152.4	1	2
SE125P-LR0	Black	1.25	31.8	0.750 – 1.50	19.1 – 38.1	50	15.2	1	4
SE125P-LR8	Gray	1.25	31.8	0.750 – 1.50	19.1 – 38.1	50	15.2	1	4
SE125P-TR0	Black	1.25	31.8	0.750 – 1.50	19.1 – 38.1	200	61.0	1	2
SE125P-TR8	Gray	1.25	31.8	0.750 – 1.50	19.1 – 38.1	200	61.0	1	2
SE125P-TR10	White	1.25	31.8	0.750 – 1.50	19.1 – 38.1	200	61.0	1	2
SE150P-LR0	Black	1.50	38.1	1.00 – 2.13	25.4 – 54.0	50	15.2	1	4
SE150P-LR8	Gray	1.50	38.1	1.00 – 2.13	25.4 – 54.0	50	15.2	1	4
SE150P-TR0	Black	1.50	38.1	1.00 – 2.13	25.4 – 54.0	200	61.0	1	2
SE150P-TR8	Gray	1.50	38.1	1.00 – 2.13	25.4 – 54.0	200	61.0	1	2
SE150P-TR10	White	1.50	38.1	1.00 – 2.13	25.4 – 54.0	200	61.0	1	2
SE175P-TR0	Black	1.75	44.5	1.25 – 2.75	31.8 – 69.9	200	61.0	1	2
SE200P-TR0	Black	2.00	50.8	1.50 – 3.50	38.1 – 88.9	200	61.0	1	2
SE250P-TR0	Black	2.50	63.5	1.75 – 3.64	44.5 – 92.3	200	61.0	1	2

Reel packaging may contain splices. Contact Panduit Customer Service for further information.

B1.
Cable Ties
and ToolsB2.
Cable
AccessoriesB3.
Stainless Steel
Cable Ties,
Tools and
AccessoriesC1.
Wiring
DuctC2.
Abrasion
ProtectionD1.
Terminals
and
FerrulesE1.
Labeling
SystemsE2.
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Braided Expandable Sleeving – Flame Retardant Polyethylene Terephthalate

- Provides continuous abrasion protection for wires, cables, hoses and tubing
- 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
- Flammability: Meets UL 1441 VW-1
- Compliant with U.S. and European passenger rail standards
- Compliant with EN45545 -2 European Union Standard Fire Testing to railway Components
- UL E116868



Part Number	Color	Nominal I.D.		Nominal Diameter Range		Length per reel		Std. Pkg. Qty.	Std. Ctn. Qty.
		In.	mm	In.	mm	Ft.	m		
SE12PFR-TR0	Black	0.12	3.2	0.094 – 0.250	2.4 – 6.4	200	61.0	1	4
SE12PFR-MR0	Black	0.12	3.2	0.094 – 0.250	2.4 – 6.4	1000	304.8	1	2
SE12PFR-TR8	Gray	0.12	3.2	0.094 – 0.250	2.4 – 6.4	200	61.0	1	4
SE12PFR-MR8	Gray	0.12	3.2	0.094 – 0.250	2.4 – 6.4	1000	304.8	1	2
SE12PFR-MR10	White	0.12	3.2	0.094 – 0.250	2.4 – 6.4	1000	304.8	1	2
SE25PFR-TR0	Black	0.25	6.4	0.125 – 0.375	3.2 – 9.5	200	61.0	1	4
SE25PFR-MR0	Black	0.25	6.4	0.125 – 0.375	3.2 – 9.5	1000	304.8	1	2
SE25PFR-TR8	Gray	0.25	6.4	0.125 – 0.375	3.2 – 9.5	200	61.0	1	4
SE25PFR-MR8	Gray	0.25	6.4	0.125 – 0.375	3.2 – 9.5	1000	304.8	1	2
SE25PFR-MR10	White	0.25	6.4	0.125 – 0.375	3.2 – 9.5	1000	304.8	1	2
SE38PFR-MR0	Black	0.38	9.5	0.188 – 0.500	4.8 – 12.7	1000	304.8	1	2
SE38PFR-TR0	Black	0.38	9.5	0.188 – 0.500	4.8 – 12.7	200	61.0	1	4
SE38PFR-TR8	Gray	0.38	9.5	0.188 – 0.500	4.8 – 12.7	200	61.0	1	4
SE38PFR-MR8	Gray	0.38	9.5	0.188 – 0.500	4.8 – 12.7	1000	304.8	1	2
SE38PFR-MR10	White	0.38	9.5	0.188 – 0.500	4.8 – 12.7	1000	304.8	1	2
SE50PFR-CR0	Black	0.50	12.7	0.250 – 0.750	6.4 – 19.1	100	30.5	1	4
SE50PFR-CR8	Gray	0.50	12.7	0.250 – 0.750	6.4 – 19.1	100	30.5	1	4
SE50PFR-DR0	Black	0.50	12.7	0.250 – 0.750	6.4 – 19.1	500	152.4	1	2
SE50PFR-DR8	Gray	0.50	12.7	0.250 – 0.750	6.4 – 19.1	500	152.4	1	2
SE50PFR-DR10	White	0.50	12.7	0.250 – 0.750	6.4 – 19.1	500	152.4	1	2
SE75PFR-CR0	Black	0.75	19.1	0.500 – 1.25	12.7 – 31.8	100	30.5	1	4
SE75PFR-CR8	Gray	0.75	19.1	0.500 – 1.25	12.7 – 31.8	100	30.5	1	4
SE75PFR-DR0	Black	0.75	19.1	0.500 – 1.25	12.7 – 31.8	500	152.4	1	2
SE75PFR-DR8	Gray	0.75	19.1	0.500 – 1.25	12.7 – 31.8	500	152.4	1	2
SE75PFR-DR10	White	0.75	19.1	0.500 – 1.25	12.7 – 31.8	500	152.4	1	2
SE125PFR-LR0	Black	1.25	31.8	0.750 – 1.50	19.1 – 38.1	50	15.2	1	4
SE125PFR-LR8	Gray	1.25	31.8	0.750 – 1.50	19.1 – 38.1	50	15.2	1	4
SE125PFR-TR0	Black	1.25	31.8	0.750 – 1.50	19.1 – 38.1	200	61.0	1	2
SE125PFR-TR8	Gray	1.25	31.8	0.750 – 1.50	19.1 – 38.1	200	61.0	1	2
SE125PFR-TR10	White	1.25	31.8	0.750 – 1.50	19.1 – 38.1	200	61.0	1	2
SE150PFR-LR0	Black	1.50	38.1	1.00 – 2.13	25.4 – 54.0	50	15.2	1	4
SE150PFR-LR8	Gray	1.50	38.1	1.00 – 2.13	25.4 – 54.0	50	15.2	1	4
SE150PFR-TR0	Black	1.50	38.1	1.00 – 2.13	25.4 – 54.0	200	61.0	1	2
SE150PFR-TR8	Gray	1.50	38.1	1.00 – 2.13	25.4 – 54.0	200	61.0	1	2
SE150PFR-TR10	White	1.50	38.1	1.00 – 2.13	25.4 – 54.0	200	61.0	1	2
SE175PFR-TR0	Black	1.75	44.5	1.25 – 2.75	31.8 – 69.9	200	61.0	1	2

Reel packaging may contain splices. Contact Panduit Customer Service for further information.

Tooling Head

- Sleeving cutter/end sealer blade – used with popular soldering guns to cut and seal sleeving



Part Number	Part Description	Std. Pkg. Qty.
HKBS	For dual straight shank soldering guns with 0.500" spacing typical guns: WELLER Straight Shank Model 8200; WEN Model 199 or 100 (Replace tip holding screws with (2) screws included).	1

Fray Resistant Braided Expandable Sleeving

- Sleeving design resists fraying when cut with scissors
- Provides continuous abrasion protection resistance for wires, cables, and tubing
- For indoor use only
- Rated for use up to 257°F (125°C)
- Material: Polyethylene Terephthalate
- UL E116868



Part Number	Color	Nominal I.D.		Nominal Diameter Range		Length per reel‡		Std. Pkg. Qty.	Std. Ctn. Qty.
		In.	mm	In.	mm	Ft.	m		
SE12PSC-TR0	Black	0.12	3.2	0.13 – 0.25	3.2 – 6.4	200	61.0	1	4
SE25PSC-TR0	Black	0.25	6.4	0.16 – 0.44	4.0 – 11.1	200	61.0	1	4
SE38PSC-TR0	Black	0.38	9.5	0.19 – 0.63	4.8 – 15.9	200	61.0	1	4
SE50PSC-CR0	Black	0.50	12.7	0.25 – 0.75	6.4 – 19.1	100	30.5	1	4
SE75PSC-CR0	Black	0.75	19.1	0.63 – 1.0	15.9 – 25.4	100	30.5	1	4
SE125PSC-LR0	Black	1.25	31.8	1.0 – 1.5	25.4 – 38.1	50	15.2	1	4
SE150PSC-LR0	Black	1.50	38.1	1.3 – 2.0	31.8 – 50.8	50	15.2	1	4

‡Reel packaging may contain splices. Contact Panduit Customer Service for further information.



Pan-Wrap™ Braided Sleeving

- Split wrap design allows for installation after cable routing is complete, breakouts of single and multiple cables, and addition or removal of cables post-installation
- 25% edge overlap ensures complete coverage without opening
- Highly flexible open weave will not trap heat or humidity
- Rated for use up to 257°F (125°C)
- Polyethylene Terephthalate (PET) Flammability: Meets UL 94 V-0
- Flame Retardant Polyethylene Terephthalate (PET) Flammability: Meets UL 1441 VW-1



Part Number	Material	Color	Nominal Size Diameter		Nominal Wall Thickness		Length Per Reel		Std. Pkg. Qty.	Std. Ctn. Qty.
			In.	mm	In.	mm	Ft.	m		
SE12PS-4CR0	Polyethylene Terephthalate (PET)	Black	0.125	3.2	0.024	0.6	400	122.0	1	6
SE25PS-TR0	Polyethylene Terephthalate (PET)	Black	0.25	6.4	0.025	0.6	200	61.0	1	6
SE50PS-CLR0	Polyethylene Terephthalate (PET)	Black	0.50	12.7	0.025	0.6	150	45.7	1	2
SE75PS-CR0	Polyethylene Terephthalate (PET)	Black	0.75	19.1	0.025	0.6	100	30.5	1	2
SE100PS-CR0	Polyethylene Terephthalate (PET)	Black	1.00	25.4	0.038	1.0	100	30.5	1	2
SE150PS-LQR0	Polyethylene Terephthalate (PET)	Black	1.50	38.1	0.038	1.0	75	22.9	1	2
SE12PSFR-4CR0	Flame Retardant Polyethylene Terephthalate (PET)	Black	0.125	3.2	0.024	0.6	400	122.0	1	6
SE25PSFR-TR0	Flame Retardant Polyethylene Terephthalate (PET)	Black	0.25	6.4	0.025	0.6	200	61.0	1	6
SE50PSFR-CLR0	Flame Retardant Polyethylene Terephthalate (PET)	Black	0.50	12.7	0.025	0.6	150	45.7	1	2
SE75PSFR-CR0	Flame Retardant Polyethylene Terephthalate (PET)	Black	0.75	19.1	0.025	0.6	100	30.5	1	2
SE100PSFR-CR0	Flame Retardant Polyethylene Terephthalate (PET)	Black	1.00	25.4	0.038	1.0	100	30.5	1	2
SE150PSFR-LQR0	Flame Retardant Polyethylene Terephthalate (PET)	Black	1.50	38.1	0.038	1.0	75	22.9	1	2

Abrasion Protection Materials Technical Data

	Ratings and Approvals			Physical Properties			Chemical Resistance			
	UL Temperature Index	Flammability (UL 94)	Melting Temperature	Specific Gravity (D792)	Minimum Tensile @23°C (psi)	Water Absorption (Max. 24 hrs.)	Organic Solvents	Alkalies	Acids	Petro-Chemicals
Spiral Wrap										
Natural Polyethylene Lowest cost material for indoor use up to 122°F. Natural is available in all sizes.	-40°F (-40°C) to 122°F (50°C)	HB	239°F (115°C)	0.91 – 0.93	1400 (D368)	0.01%	Resistant below 140°F (60°C) except to chlorinated solvents	Resistant	Resistant except to oxidizing acids	Some Discoloration
Weather Resistant Polyethylene This material has the same properties as natural polyethylene, and also has additives which allow it to resist the effects of ultraviolet light and acid rain in an outdoor environment. This product is available in black only.	-40°F (-40°C) to 122°F (50°C)	HB	239°F (115°C)	0.93 – 1.09	2000 (D368)	0.03%	Resistant below 140°F (60°C) except to chlorinated solvents	Resistant	Resistant except to oxidizing acids	No Discoloration
Fire Resistant Polyethylene* UL94-V-2 Rating. This material is self extinguishing and passes the UL 94 flame retardant test with V-2 rating.	-40°F (-40°C) to 122°F (50°C)	V-2	239°F (115°C)	1.00 – 1.30	1400 (D368)	0.02%	Resistant below 140°F (60°C) except to chlorinated solvents	Resistant	Resistant except to oxidizing acids	Some Discoloration
Flame Retardant Polyethylene* UL94-V-0 Rating. This material is self extinguishing and passes the UL94 flame retardant test with a V-0 rating.	-4°F (-20°C) to 122°F (50°C)	V-0	270°F (132°C)	1.23 – 1.37	1500 (D368)	0.02%	Resistant except to halogenated hydrocarbons	Resistant	Resistant	Resistant Some Discoloration
Weather Resistant Polypropylene This material is resistant to chemical attack and is suitable for harsh environment applications requiring UV/weather resistance and withstanding high temperatures.	-40°F (-40°C) to 239°F (115°C)	HB	334°F (168°C)	0.902	4000 (D638)	0.1%	Resistant except to halogenated hydrocarbons	Resistant	Resistant	Resistant No Discoloration
Nylon 6.6 Nylon is strong, durable 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.	-40°F (-40°C) to 149°F (65°C)	HB	505°F (263°C)	1.13 – 1.15	12,400 (D368)	1.2%	Resistant except to halogenated hydrocarbons	Resistant	Not recommended	Resistant No Discoloration
Weather Resistant Nylon 6.6 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.	-40°F (-40°C) to 149°F (65°C)	HB	505°F (263°C)	1.13 – 1.15	12,400 (D368)	1.2%	Resistant except to halogenated hydrocarbons	Resistant	Not recommended	Resistant No Discoloration
TFE†* This material is a non-flammable, fluorocarbon resin material. Highly resistant to most chemicals, high resistance to UV exposure, wide operating temperature range, can be used in cryogenic applications. Color: Opaque to Translucent.	-454°F (-270°C) to 356°F (180°C)	V-0	648°F (342°C)	2.13 – 2.22	3000 (D876)	0.01%	Resistant	Resistant	Resistant	Resistant No Discoloration
Pan-Wrap™										
Natural Polyethylene Lowest cost material for indoor use up to 122°C. Natural is available in all sizes.	-40°F (-40°C) to 122°F (50°C)	HB	239°F (115°C)	0.91 – 0.93	1400 (D638)	0.01%	Resistant below 140°F (60°C) except to chlorinated solvents	Resistant	Resistant except to oxidizing acids	Some Discoloration
Flame Retardant Polyethylene* UL94-V-0 Rating. This material is self extinguishing and passes the UL94 flame retardant test with a V-0 rating.	-4°F (-20°C) to 122°F (50°C)	V-0	270°F (132°C)	1.15	1500 (D876)	0.02%	Resistant except to halogenated hydrocarbons	Resistant	Resistant	Resistant Some Discoloration

Note: Typical operating temperature ranges are extended based on end use application and specific environment tests.

†TFE is Polytetrafluoroethylene material.

*Contains halogens. Other materials are halogen free.

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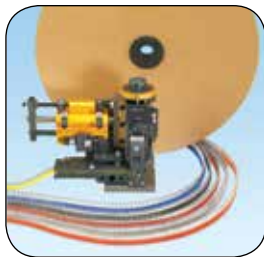
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Note: Typical operating temperature ranges are extended based on end use application and specific environment tests.
 *Contains halogens. Other materials are halogen free.
 **Limited sizes in Clear

Reel Smart™ System



The Panduit® Reel Smart™ System provides the best solution for quality, high volume terminations designed to dramatically reduce set-up time and production downtime. This increased efficiency translates into real cost savings throughout the termination process from start to finish.



- One applicator system terminates over 400 continuously molded terminals, reducing cost of ownership
- Continuously molded integrated carrier guarantees alignment of terminal; front to back and side to side to eliminate skewing of product resulting in consistent, high quality low cost termination
- Available in large reels requiring less product changeover, resulting in less downtime
- Applicable sizes are UL Listed and CSA Certified, as noted
- Panduit® CA9 Ezair™ Universal Applicator works with Reel Smart™ Reel-Fed Terminals to deliver the ultimate fully automatic, high-capacity termination performance
- Panduit reel fed strip ferrules combine with tooling options to support wire harness, control panel, and automatic wire processing applications

Panduit continually provides new designs with innovative features to meet the application challenges encountered by customers, while providing the lowest installed cost.

If you are missing information from this catalog, please refer to the Full line catalog posted on panduit.com.

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Features and Benefits – Reel Smart™ Termination System

The Panduit® continuously molded Reel Smart™ products are designed such that the terminal, disconnect, and butt splice housings are connected by an integral molded carrier in the barrel crimp zone, producing a continuous length of product. Plated metal terminals, disconnects, and splices are then assembled into the housings. During termination, the continuously molded components are fed into a universal applicator. This process produces a reel-fed solution that eliminates a variety of problems associated with other reel-fed designs and provides high quality, high capacity product on reels for longer, uninterrupted production runs – resulting in the lowest installed cost.

Pre-insulated design eliminates the need for post-insulation – resulting in labor savings

Barrel position is controlled for consistent wire feed targeting to deliver high process capability



Continuously molded design always aligns product with the carrier strip – resulting in trouble free tool operation

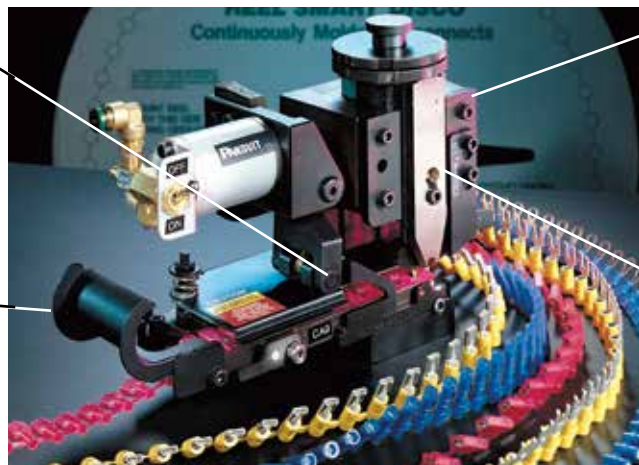
Plastic carrier strip eliminates sharp, unplated edges as found on metal strip-fed carriers – providing better corrosion resistance

Reel Smart™ CA9 Ezair™ Universal Applicator

The Panduit® CA9 Ezair™ applicator automatically adjusts feed stroke to the correct pitch and length for the entire product line of continuously molded products. The need for multiple applicators is eliminated. The applicator, in conjunction with the precision, continuously molded product provides perfect front-to-back and side-to-side alignment in the die pocket for a high quality termination every time – resulting in the most optimum system to terminate terminals.

Automatic, self-adjusting feed stroke – resulting in correct pitch and length

Versatile applicator design – allows for installation in bench presses, and most automatic wire processing systems of 3rd party manufacturers



Universal applicator installs Reel Smart™ product line – resulting in lower tooling inventory costs

Quick change dies – provide fast product change-over and reduction in set-up time

Nylon Insulated Terminals with Insulation Grip Sleeve (Funnel and Non-Funnel Entry Types)

The three-piece design terminal provides a permanently attached tin plated brass sleeve for insulation grip in funnel and straight entry sleeve designs. This product feature offers the most reliable terminations. Nylon insulation is rated up to 600 V maximum and designed for up to 221°F (105°C) operating temperature maximum. Supplied on rings, forks, locking forks, short locking forks and flanged forks in wire sizes #22 through #10.



- Sleeved barrel – assures crimp reliability
- PNF – funnel entry styles available
- Metal insulation crimp – provides DOUBLE CRIMP wire insulation grip sleeve for high vibration and to meet conductor strain environments

- Internal wire barrel serrations – provides increased wire contact and maximum tensile strength
- Product markings – UL and CSA rated – up to 600 V, maximum operating temperature 221°F (105°C)

Part Number System for Reel Smart™ Terminals

P	NF	14	—	6	R	N	3K
Type	Insulation	Wire Range		Stud Size	Tongue Configuration	Special Configuration	Std. Pkg. Size
P = Terminal BS = Butt Splice	N = Nylon Insulated NF = Nylon Insulated Funnel Entry V = Vinyl Insulated	18 = #22 – 18 14 = #16 – 14 12 = #16 – 12 10 = #12 – 10		4 = #4 5 = #5 6 = #6 8 = #8 10 = #10 14 = 1/4" 56 = 5/16" 38 = 3/8"	R = Ring HDR = Heavy Duty Ring F = Fork FF = Flanged fork LF = Locking fork	N = Narrow Tongue W = Wide Tongue B = Butted Seam = Standard (leave blank)	2K = 2,000 pcs. 3K = 3,000 pcs.

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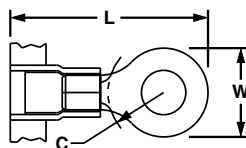
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Ring Terminals, Nylon Insulated – Non-Funnel Entry

Type PN-R

- Continuously molded design provides reliable, consistent performance through the applicator for a high quality termination every time
- Ring tongue design assures a secure connection in high vibration applications
- Metal insulation grip sleeve crimps to wire insulation, providing protection to the crimp joint during high vibration applications
- Internal barrel serrations assure good wire contact and maximum tensile strength
- UL Flammability UL 94 HB, maximum insulation temperature 221°F (105°C)
- UL and CSA rated up to 600 V per UL 486A/B



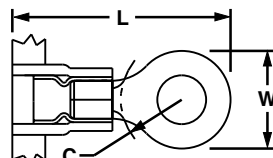
Part Number	Wire Range	Color Code	Stock Thickness (In.)	Max Ins. (In.)	Stud Size	Figure Dimensions (In.)			CA9 Series Crimp Die	CA-800/EZ Series Crimp Die	Pieces Per Reel
						L	W	C			
PN18-4R-3K	22 – 18 AWG	Red	0.03	0.145	#4	0.80	0.25	0.22	CD9-1A	CD-800-1	3000
PN18-6RN-3K					#6	0.74	0.22	0.18			3000
PN18-6R-3K					#6	0.78	0.25	0.22			3000
PN18-8R-3K					#8	0.86	0.31	0.25			3000
PN18-10R-3K					#10	0.86	0.31	0.25			3000
PN18-14R-3K					1/4"	1.05	0.45	0.38			3000
PN14-4R-3K	16 – 14 AWG	Blue	0.03	0.162	#4	0.76	0.25	0.22	CD9-2A	CD-800-2	3000
PN14-6RN-3K					#6	0.76	0.25	0.22			3000
PN14-6R-3K					#6	0.86	0.31	0.25			3000
PN14-8R-3K					#8	0.86	0.31	0.25			3000
PN14-10R-3K					#10	0.86	0.31	0.25			3000
PN14-14R-3K					1/4"	1.06	0.44	0.38			3000
PN10-6R-2K	12 – 10 AWG	Yellow	0.04	0.225	#6	1.06	0.38	0.31	CD9-3B	CD-800-3	2000
PN10-8R-2K					#8	1.06	0.38	0.31			2000
PN10-10R-2K					#10	1.06	0.38	0.31			2000
PN10-14R-2K					1/4"	1.21	0.52	0.38			2000
PN10-56R-2K					5/16"	1.21	0.52	0.38			2000
PN10-38R-2K					3/8"	1.29	0.58	0.43			2000



Ring Terminals, Nylon Insulated – Funnel Entry

Type PNF-R

- Continuously molded design provides reliable, consistent performance through the applicator for a high quality termination every time
- Ring tongue design assures a secure connection in high vibration applications
- Metal insulation grip sleeve crimps to wire insulation, providing protection to the crimp joint during high vibration applications
- Internal barrel serrations assure good wire contact and maximum tensile strength
- UL Flammability UL 94 HB, maximum insulation temperature 221°F (105°C)
- UL and CSA rated up to 600 V per UL 486A/B



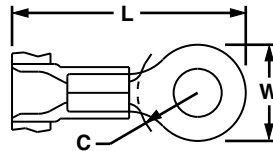
Part Number	Wire Range	Color Code	Stock Thickness (In.)	Max Ins. (In.)	Stud Size	Figure Dimensions (In.)			CA9 Series Crimp Die	CA-800/EZ Series Crimp Die	Pieces Per Reel
						L	W	C			
PNF18-4RN-3K	22 – 18 AWG	Red	0.03	0.145	#4	0.74	0.22	0.19	CD9-1A	CD-800-1	3000
PNF18-4R-3K					#4	0.78	0.25	0.21			3000
PNF18-6RN-3K					#6	0.74	0.22	0.16			3000
PNF18-6R-3K					#6	0.78	0.25	0.21			3000
PNF18-8R-3K					#8	0.86	0.31	0.25			3000
PNF18-10R-3K					#10	0.86	0.31	0.25			3000
PNF18-14R-3K					1/4"	1.06	0.46	0.38			3000
PNF14-4R-3K	16 – 14 AWG	Blue	0.03	0.162	#4	0.78	0.25	0.18	CD9-2A	CD-800-2	3000
PNF14-6RN-3K					#6	0.78	0.25	0.18			3000
PNF14-6R-3K					#6	0.87	0.31	0.24			3000
PNF14-8R-3K					#8	0.87	0.31	0.25			3000
PNF14-10R-3K					#10	0.85	0.31	0.29			3000
PNF14-14R-3K					1/4"	1.06	0.46	0.40			3000
PNF10-6R-2K	12 – 10 AWG	Yellow	0.04	0.225	#6	1.06	0.38	0.31	CD9-3B	CD-800-3	2000
PNF10-8R-2K					#8	1.06	0.38	0.31			2000
PNF10-10R-2K					#10	1.06	0.38	0.31			2000
PNF10-14R-2K					1/4"	1.21	0.52	0.38			2000
PNF10-56R-2K					5/16"	1.21	0.52	0.38			2000
PNF10-38R-2K					3/8"	1.29	0.58	0.43			2000



Ring Terminals, Vinyl Insulated – Funnel Entry

Type PV-RB

- Continuously molded design provides reliable, consistent performance through the applicator for a high quality termination every time
- Ring tongue design assures a secure connection in high vibration applications
- Insulation support helps to prevent wire damage in bending applications
- UL Flammability UL 94V-0, maximum insulation temperature 221°F (105°C)
- UL and CSA rated up to 600 V per UL 486A/B



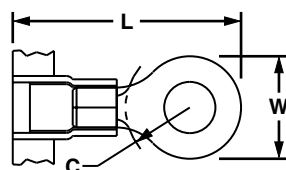
			Stock Thickness (In.)	Max Ins. (In.)	Stud Size	Figure Dimensions (In.)				CA-800/EZ Series Crimp Die	Pieces Per Reel
Part Number	Wire Range	Color Code				L	W	C	CA9 Series Crimp Die		
PV18-4RNB-3K	22 – 18 AWG	Red	0.03	0.150	#4	0.74	0.21	0.19	CD9-1A	CD-800-1	3000
PV18-4RB-3K					#4	0.78	0.25	0.20			3000
PV18-6RNB-3K					#6	0.75	0.23	0.19			3000
PV18-6RB-3K					#6	0.78	0.25	0.20			3000
PV18-8RB-3K					#8	0.86	0.31	0.25			3000
PV18-10RB-3K					#10	0.86	0.31	0.25			3000
PV18-14RB-3K					1/4"	1.06	0.45	0.38			3000
PV18-56RB-2K					5/16"	1.06	0.46	0.38	CD9-1B		2000
PV18-38RB-2K					3/8"	1.15	0.53	0.43			2000
PV14-4RB-3K	16 – 14 AWG	Blue	0.03	0.170	#4	0.76	0.25	0.22	CD9-2A	CD-800-2	3000
PV14-6RNB-3K					#6	0.76	0.25	0.22			3000
PV14-6RB-3K					#6	0.86	0.31	0.25			3000
PV14-8RB-3K					#8	0.86	0.31	0.25			3000
PV14-10RB-3K					#10	0.86	0.31	0.25			3000
PV14-14RB-3K					1/4"	1.05	0.45	0.38			3000
PV14-56RB-2K					5/16"	1.06	0.46	0.38			CD9-2B
PV14-38RB-2K					3/8"	1.15	0.53	0.43	2000		
PV10-6RB-2K					12 – 10 AWG	Yellow	0.04	0.225	#6		1.02
PV10-8RB-2K	#8	1.02	0.31	0.31					2000		
PV10-10RB-2K	#10	1.02	0.31	0.31					2000		
PV10-14RB-2K	1/4"	1.20	0.52	0.38					2000		
PV10-56RB-2K	5/16"	1.20	0.52	0.38					2000		
PV10-38RB-2K	3/8"	1.23	0.58	0.43					2000		



Ring Terminals, Nylon Insulated – Heavy Duty

Type PN-HDR

- Continuously molded design provides reliable, consistent performance through the applicator for a high quality termination every time
- Manufactured from stock 56% thicker than a standard #16 – 14 AWG terminal for use in heavy duty application
- Ring tongue design assures a secure connection in high vibration applications
- Metal insulation grip sleeve crimps to wire insulation, providing protection to the crimp joint during high vibration applications
- Internal barrel serrations assure good wire contact and maximum tensile strength
- UL Flammability UL 94 HB, maximum insulation temperature 221°F (105°C)
- UL and CSA rated up to 600 V per UL 486A/B



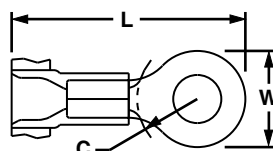
Part Number	Wire Range	Color Code	Stock Thickness (In.)	Max Ins. (In.)	Stud Size	Figure Dimensions (In.)			CA9 Series Crimp Die	CA-800/EZ Series Crimp Die	Pieces Per Reel
						L	W	C			
PN12-6HDR-2K	16 – 12 AWG	Yellow	0.05	0.225	#6	1.02	0.31	0.31	CD9-3B	CD-800-3	2000
PN12-8HDR-2K					#8	1.02	0.31	0.31			2000
PN12-10HDR-2K					#10	1.05	0.38	0.31			2000
PN12-14HDR-2K					1/4"	1.20	0.52	0.38			2000
PN12-56HDR-2K					5/16"	1.20	0.52	0.38			2000
PN12-38HDR-2K					3/8"	1.28	0.58	0.38			2000



Ring Terminals, Vinyl Insulated – Heavy Duty

Type PV-HDRB

- Continuously molded design provides reliable, consistent performance through the applicator for a high quality termination every time
- Manufactured from stock 56% thicker than a standard #16 – 14 AWG terminal for use in heavy-duty applications
- Ring tongue design assures a secure connection in high vibration applications
- Insulation support helps to prevent wire damage in bending applications
- UL Flammability UL 94V-0, maximum insulation temperature 221°F (105°C)
- UL and CSA rated up to 600 V per UL 486A/B



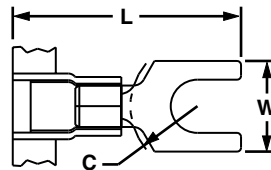
Part Number	Wire Range	Color Code	Stock Thickness (In.)	Max Ins. (In.)	Stud Size	Figure Dimensions (In.)			CA9 Series Crimp Die	CA-800/EZ Series Crimp Die	Pieces Per Reel
						L	W	C			
PV12-6HDRB-2K	16 – 12 AWG	Yellow	0.05	0.225	#6	1.03	0.31	0.36	CD9-3B	CD-800-3	2000
PV12-8HDRB-2K					#8	1.03	0.31	0.36			2000
PV12-10HDRB-2K					#10	1.06	0.37	0.36			2000
PV12-14HDRB-2K					1/4"	1.23	0.52	0.43			2000
PV12-56HDRB-2K					5/16"	1.23	0.52	0.43			2000
PV12-38HDRB-2K					3/8"	1.30	0.58	0.38			2000



Fork Terminals, Nylon Insulated – Non-Funnel Entry

Type PN-F

- Continuously molded design provides reliable, consistent performance through the applicator for a high quality termination every time
- Fork design provides for fast and easy installation, without the need to remove fastener
- Metal insulation grip sleeve crimps to wire insulation, providing protection to the crimp joint during high vibration applications
- Internal barrel serrations assure good wire contact and maximum tensile strength
- UL Flammability UL 94 HB, maximum insulation temperature 221°F (105°C)
- UL and CSA rated up to 600 V per UL 486A/B



Part Number	Wire Range	Color Code	Stock Thickness (In.)	Max Ins. (In.)	Stud Size	Figure Dimensions (In.)			CA9 Series Crimp Die	CA-800/EZ Series Crimp Die	Pieces Per Reel
						L	W	C			
PN18-6FN-3K	22 – 18 AWG	Red	0.03	0.145	#6	0.78	0.25	0.20	CD9-1A	CD-800-1	3000
PN18-6F-3K					#6	0.78	0.30	0.20			3000
PN18-8F-3K					#8	0.84	0.32	0.23			3000
PN18-10FN-3K					#10	0.86	0.31	0.25			3000
PN18-10F-3K					#10	0.86	0.35	0.25			3000
PN18-14F-3K					1/4"	1.03	0.44	0.33			3000
PN14-6FN-3K	16 – 14 AWG	Blue	0.03	0.162	#6	0.78	0.24	0.19	CD9-2A	CD-800-2	3000
PN14-6F-3K					#6	0.78	0.28	0.19			3000
PN14-8F-3K					#8	0.84	0.31	0.23			3000
PN14-10FN-3K					#10	0.86	0.31	0.24			3000
PN14-10F-3K					#10	0.86	0.34	0.24			3000
PN14-14F-3K					1/4"	1.03	0.44	0.32			3000
PN10-6F-2K	12 – 10 AWG	Yellow	0.04	0.225	#6	1.00	0.31	0.24	CD9-3B	CD-800-3	2000
PN10-8F-2K					#8	1.03	0.37	0.24			2000
PN10-10F-2K					#10	1.04	0.37	0.24			2000
PN10-14F-2K					1/4"	1.14	0.49	0.32			2000

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C2.
Abrasion
Protection

D1.
Terminals
and
Ferrules

E1.
Labeling
Systems

E2.
Labels

E3.
Permanent
Identification

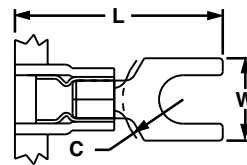
F.
Part
Number
Index



Fork Terminals, Nylon Insulated – Funnel Entry

Type PNF-F

- Continuously molded design provides reliable, consistent performance through the applicator for a high quality termination every time
- Fork design provides for fast and easy installation, without the need to remove fastener
- Metal insulation grip sleeve crimps to wire insulation, providing protection to the crimp joint during high vibration applications
- Internal barrel serrations assure good wire contact and maximum tensile strength
- UL Flammability UL 94 HB, maximum insulation temperature 221°F (105°C)
- UL and CSA rated up to 600 V per UL 486A/B



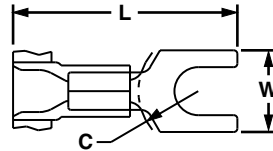
Part Number	Wire Range	Color Code	Stock Thickness (In.)	Max Ins. (In.)	Stud Size	Figure Dimensions (In.)			CA9 Series Crimp Die	CA-800/EZ Series Crimp Die	Pieces Per Reel
						L	W	C			
PNF18-6F-3K	22 – 18 AWG	Red	0.03	0.145	#6	0.77	0.30	0.19	CD9-1A	CD-800-1	3000
PNF18-6FN-3K					#6	0.78	0.24	0.19			3000
PNF18-8F-3K					#8	0.83	0.32	0.22			3000
PNF18-10F-3K					#10	0.85	0.35	0.24			3000
PNF18-14F-3K					1/4"	1.02	0.44	0.33			3000
PNF14-6FN-3K	16 – 14 AWG	Blue	0.03	0.162	#6	0.78	0.24	0.19	CD9-2A	CD-800-2	3000
PNF14-6F-3K					#6	0.78	0.28	0.19			3000
PNF14-8F-3K					#8	0.84	0.31	0.23			3000
PNF14-10F-3K					#10	0.86	0.34	0.24			3000
PNF14-14F-3K					1/4"	1.03	0.44	0.32			3000
PNF10-6F-2K	12 – 10 AWG	Yellow	0.04	0.225	#6	1.01	0.31	0.24	CD9-3B	CD-800-3	2000
PNF10-8F-2K					#8	1.02	0.37	0.24			2000
PNF10-14F-2K					1/4"	1.13	0.49	0.32			2000



Fork Terminals, Vinyl Insulated – Funnel Entry

Type PV-FB

- Continuously molded design provides reliable, consistent performance through the applicator for a high quality termination every time
- Fork design provides for fast and easy installation, without the need to remove fastener
- Insulation support helps to prevent wire damage in bending applications
- UL Flammability UL 94V-0, maximum insulation temperature 221°F (105°C)
- UL and CSA rated up 600 V per UL 486A/B



Part Number	Wire Range	Color Code	Stock Thickness (In.)	Max Ins. (In.)	Stud Size	Figure Dimensions (In.)			CA9 Series Crimp Die	CA-800/EZ Series Crimp Die	Pieces Per Reel
						L	W	C			
PV18-6FB-3K	22 – 18 AWG	Red	0.03	0.150	#6	0.78	0.30	0.20	CD9-1A	CD-800-1	3000
PV18-6FNB-3K					#6	0.78	0.25	0.20			3000
PV18-8FB-3K					#8	0.84	0.32	0.23			3000
PV18-10FB-3K					#10	0.86	0.35	0.25			3000
PV18-14FB-3K					1/4"	1.03	0.44	0.33			3000
PV14-6FB-3K	16 – 14 AWG	Blue	0.03	0.170	#6	0.78	0.24	0.19	CD9-2A	CD-800-2	3000
PV14-6FNB-3K					#6	0.78	0.28	0.19			3000
PV14-8FB-3K					#8	0.84	0.31	0.23			3000
PV14-10FB-3K					#10	0.86	0.34	0.24			3000
PV14-10FNB-3K					#10	0.86	0.31	0.24			3000
PV14-14FB-3K					1/4"	1.03	0.44	0.32			3000
PV10-6FB-2K	12 – 10 AWG	Yellow	0.04	0.225	#6	0.99	0.31	0.22	CD9-3B	CD-800-3	2000
PV10-8FB-2K					#8	1.00	0.38	0.22			2000
PV10-10FB-2K					#10	1.04	0.38	0.22			2000
PV10-14FB-2K					1/4"	1.13	0.49	0.32			2000

A.
System
Overview

B1.
Cable Ties
and Tools

B2.
Cable
Accessories

B3.
Stainless Steel
Cable Ties,
Tools and
Accessories

C1.
Wiring
Duct

C2.
Abrasion
Protection

D1.
Terminals
and
Ferrules

E1.
Labeling
Systems

E2.
Labels

E3.
Permanent
Identification

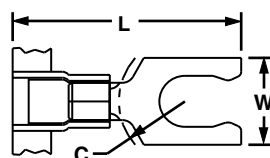
F.
Part
Number
Index



Locking Fork Terminals, Nylon Insulated – Non-Funnel Entry

Type PN-LF

- Continuously molded design provides reliable, consistent performance through the applicator for a high quality termination every time
- Snap in place for secure connection
- Fork design provides for fast and easy installation, without the need to remove fastener
- Metal insulation grip sleeve crimps to wire insulation, providing protection to the crimp joint during high vibration applications
- Internal barrel serrations assure good wire contact and maximum tensile strength
- UL Flammability UL 94 HB, maximum insulation temperature 221°F (105°C)
- UL and CSA rated up to 600 V per UL 486A/B



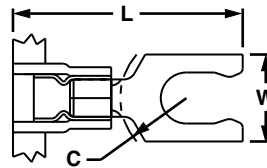
Part Number	Wire Range	Color Code	Stock Thickness (In.)	Max Ins. (In.)	Stud Size	Figure Dimensions (In.)			CA9 Series Crimp Die	CA-800/EZ Series Crimp Die	Pieces Per Reel
						L	W	C			
PN18-6LF-3K	22 – 18 AWG	Red	0.03	0.145	#6	0.82	0.27	0.19	CD9-1A	CD-800-1	3000
PN18-8LF-3K					#8	0.89	0.29	0.23			3000
PN18-10LF-3K					#10	0.89	0.33	0.23			3000
PN14-6LF-3K	16 – 14 AWG	Blue	0.03	0.162	#6	0.85	0.25	0.18	CD9-2A	CD-800-2	3000
PN14-8LF-3K					#8	0.92	0.29	0.23			3000
PN14-10LF-3K					#10	0.92	0.33	0.23			3000
PN10-6LF-2K	12 – 10 AWG	Yellow	0.04	0.225	#6	1.02	0.30	0.21	CD9-3B	CD-800-3	2000
PN10-8LF-2K					#8	1.05	0.30	0.21			2000
PN10-10LF-2K					#10	1.05	0.34	0.21			2000



Locking Fork Terminals, Nylon Insulated – Funnel Entry

Type PNF-LF

- Continuously molded design provides reliable, consistent performance through the applicator for a high quality termination every time
- Snap in place for secure connection
- Fork design provides for fast and easy installation, without the need to remove fastener
- Metal insulation grip sleeve crimps to wire insulation, providing protection to the crimp joint during high vibration applications
- Internal barrel serrations assure good wire contact and maximum tensile strength
- UL Flammability UL 94 HB, maximum insulation temperature 221°F (105°C)
- UL and CSA rated up to 600 V per UL 486A/B



Part Number	Wire Range	Color Code	Stock Thickness (In.)	Max Ins. (In.)	Stud Size	Figure Dimensions (In.)			CA9 Series Crimp Die	CA-800/EZ Series Crimp Die	Pieces Per Reel
						L	W	C			
PNF18-6LF-3K	22 – 18 AWG	Red	0.03	0.145	#6	0.85	0.27	0.19	CD9-1A	CD-800-1	3000
PNF18-6LFW-3K					#6	0.85	0.29	0.19			3000
PNF18-8LF-3K					#8	0.89	0.29	0.23			3000
PNF18-10LF-3K					#10	0.89	0.33	0.23			3000
PNF14-6LF-3K	16 – 14 AWG	Blue	0.03	0.162	#6	0.85	0.25	0.18	CD9-2A	CD-800-2	3000
PNF14-8LF-3K					#6	0.92	0.29	0.23			3000
PNF14-10LFN-3K					#8	0.92	0.28	0.23			3000
PNF14-10LF-3K					#10	0.92	0.33	0.23			3000
PNF10-6LF-2K	12 – 10 AWG	Yellow	0.04	0.225	#6	1.02	0.30	0.21	CD9-3B	CD-800-3	2000
PNF10-8LF-2K					#8	1.05	0.30	0.21			2000
PNF10-10LF-2K					#10	1.05	0.34	0.21			2000
PNF10-14LF-2K					1/4"	1.19	0.46	0.32			2000

B1.
Cable Ties
and Tools

B2.
Cable
Accessories

B3.
Stainless Steel
Cable Ties,
Tools and
Accessories

C1.
Wiring
Duct

C2.
Abrasion
Protection

D1.
Terminals
and
Ferrules

E1.
Labeling
Systems

E2.
Labels

E3.
Permanent
Identification

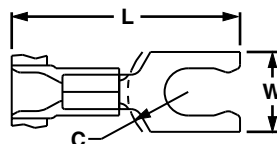
F.
Part
Number
Index



Locking Fork Terminals, Vinyl Insulated – Funnel Entry

Type PV-LFB

- Continuously molded design provides reliable, consistent performance through the applicator for a high quality termination every time
- Snap in place for secure connection
- Fork design provides for fast and easy installation, without the need to remove fastener
- Insulation support helps to prevent wire damage in bending applications
- UL Flammability UL 94V-0, maximum insulation temperature 221°F (105°C)
- UL and CSA rated to 600 V per UL 486A/B



Part Number	Wire Range	Color Code	Stock Thickness (In.)	Max Ins. (In.)	Stud Size	Figure Dimensions (In.)			CA9 Series Crimp Die	CA-800/EZ Series Crimp Die	Pieces Per Reel
						L	W	C			
PV18-6LFB-3K	22 – 18 AWG	Red	0.03	0.150	#6	0.80	0.27	0.19	CD9-1A	CD-800-1	3000
PV18-6LFWB-3K					#6	0.83	0.29	0.19			3000
PV18-8LFB-3K					#8	0.87	0.29	0.23			3000
PV18-10LFNB-3K*					#10	0.87	0.29	0.23			3000
PV18-10LFB-3K					#10	0.87	0.33	0.23			3000
PV14-6LFB-3K	16 – 14 AWG	Blue	0.03	0.170	#6	0.85	0.25	0.18	CD9-2A	CD-800-2	3000
PV14-6LFWB-3K					#6	0.85	0.29	0.18			3000
PV14-8LFB-3K					#8	0.92	0.29	0.23			3000
PV14-10LFB-3K					#10	0.92	0.33	0.23			3000
PV10-6LFB-2K	12 – 10 AWG	Yellow	0.04	0.225	#6	1.02	0.30	0.21	CD9-3B	CD-800-3	2000
PV10-8LFB-2K					#8	1.04	0.30	0.21			2000
PV10-10LFB-2K					#10	1.04	0.34	0.21			2000
PV10-14LFB-2K					1/4"	1.16	0.46	0.32			2000

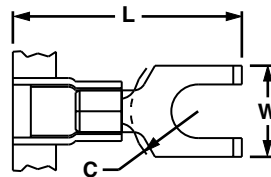
*Not UL Listed or CSA Certified.



Flanged Fork Terminals, Nylon Insulated – Non-Funnel Entry

Type PN-FF

- Continuously molded design provides reliable, consistent performance through the applicator for a high quality termination every time
- Flange design provides extra secure connection on a variety of applications
- Fork design provides for fast and easy installation, without the need to remove fastener
- Metal insulation grip sleeve crimps to wire insulation, providing protection to the crimp joint during high vibration applications
- Internal barrel serrations assure good wire contact and maximum tensile strength
- UL Flammability UL 94 HB, maximum insulation temperature 221°F (105°C)
- UL and CSA rated up to 600 V per UL 486A/B



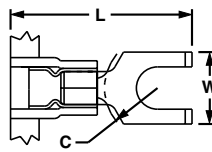
Part Number	Wire Range	Color Code	Stock Thickness (In.)	Max Ins. (In.)	Stud Size	Figure Dimensions (In.)			CA9 Series Crimp Die	CA-800/EZ Series Crimp Die	Pieces Per Reel
						L	W	C			
PN18-6FF-3K	22 – 18 AWG	Red	0.03	0.136	#6	0.80	0.28	0.19	CD9-1A	CD-800-1	3000
PN18-8FF-3K					#8	0.87	0.31	0.23			3000
PN18-10FF-3K					#10	0.87	0.35	0.23			3000
PN14-6FF-3K	16 – 14 AWG	Blue	0.03	0.162	#6	0.80	0.28	0.19	CD9-2A	CD-800-2	3000
PN14-8FF-3K					#8	0.87	0.31	0.23			3000
PN14-10FF-3K					#10	0.87	0.35	0.23			3000
PN10-8FF-2K	12 – 10 AWG	Yellow	0.04	0.225	#8	1.05	0.38	0.22	CD9-3B	CD-800-3	2000
PN10-10FF-2K					#10	1.05	0.38	0.22			2000



Flanged Fork Terminals, Nylon Insulated – Funnel Entry

Type PNF-FF

- Continuously molded design provides reliable, consistent performance through the applicator for a high quality termination every time
- Flange design provides extra secure connection on a variety of applications
- Fork design provides for fast and easy installation, without the need to remove fastener
- Metal insulation grip sleeve crimps to wire insulation, providing protection to the crimp joint during high vibration applications
- Internal barrel serrations assure good wire contact and maximum tensile strength
- UL Flammability UL 94 HB, maximum insulation temperature 221°F (105°C)
- UL and CSA rated up to 600 V per UL 486A/B



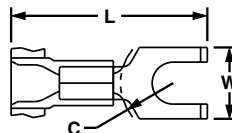
Part Number	Wire Range	Color Code	Stock Thickness (In.)	Max Ins. (In.)	Stud Size	Figure Dimensions (In.)			CA9 Series Crimp Die	CA-800/EZ Series Crimp Die	Pieces Per Reel
						L	W	C			
PNF18-6FF-3K	22 – 18 AWG	Red	0.03	0.145	#6	0.80	0.28	0.19	CD9-1A	CD-800-1	3000
PNF18-8FF-3K					#8	0.87	0.31	0.23			3000
PNF18-10FF-3K					#10	0.86	0.35	0.23			3000
PNF14-6FF-3K	16 – 14 AWG	Blue	0.03	0.162	#6	0.80	0.28	0.19	CD9-2A	CD-800-2	3000
PNF14-8FF-3K					#8	0.87	0.31	0.23			3000
PNF14-10FF-3K					#10	0.87	0.35	0.23			3000
PNF10-8FF-2K	12 – 10 AWG	Yellow	0.04	0.225	#8	1.05	0.38	0.24	CD9-3B	CD-800-3	2000
PNF10-10FF-2K					#10	1.05	0.38	0.24			2000



Flanged Fork Terminals, Vinyl Insulated – Funnel Entry

Type PV-FFB

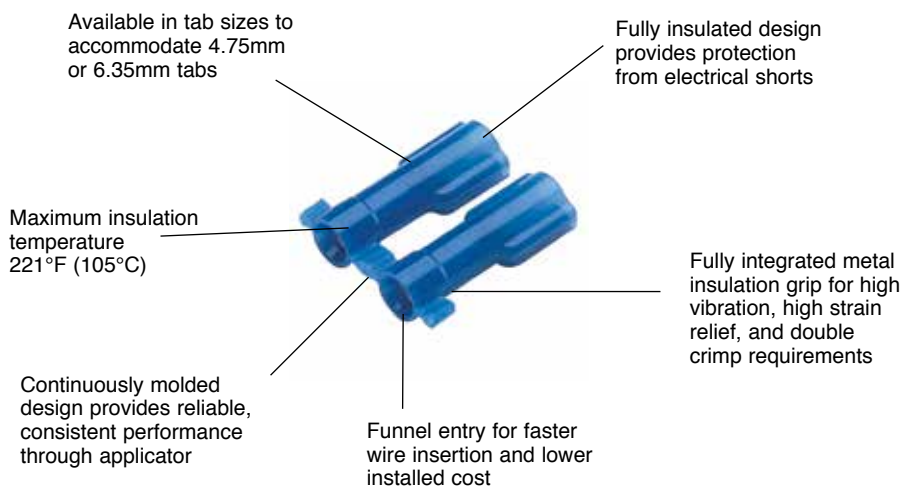
- Continuously molded design provides reliable, consistent performance through the applicator for a high quality termination every time
- Flange design provides extra secure connection on a variety of applications
- Fork design provides for fast and easy installation, without the need to remove fastener
- Insulation support helps to prevent wire damage in bending applications
- UL Flammability UL 94V-0, maximum insulation temperature 221°F (105°C)
- UL and CSA rated up to 600 V per UL 486A/B



Part Number	Wire Range	Color Code	Stock Thickness (In.)	Max Ins. (In.)	Stud Size	Figure Dimensions (In.)			CA9 Series Crimp Die	CA-800/EZ Series Crimp Die	Pieces Per Reel
						L	W	C			
PV18-6FFB-3K	22 – 18 AWG	Red	0.03	0.150	#6	0.80	0.28	0.19	CD9-1A	CD-800-1	3000
PV18-8FFB-3K					#8	0.87	0.31	0.23			3000
PV18-10FFB-3K					#10	0.86	0.35	0.23			3000
PV14-6FFB-3K	16 – 14 AWG	Blue	0.03	0.170	#6	0.80	0.28	0.19	CD9-2A	CD-800-2	3000
PV14-8FFB-3K					#8	0.87	0.31	0.23			3000
PV14-10FFB-3K					#10	0.87	0.35	0.23			3000
PV10-8FFB-2K	12 – 10 AWG	Yellow	0.04	0.225	#8	1.03	0.37	0.22	CD9-3B	CD-800-3	2000
PV10-10FFB-2K					#10	1.03	0.37	0.22			2000

Features and Benefits – Reel Smart™ Disconnects

Supra-Grip™ Nylon Fully Insulated Funnel Entry, Female Receptacle Type DNG-FB



UL and CSA Rated up to 600 V per UL 310.
Flammability UL 94 HB.

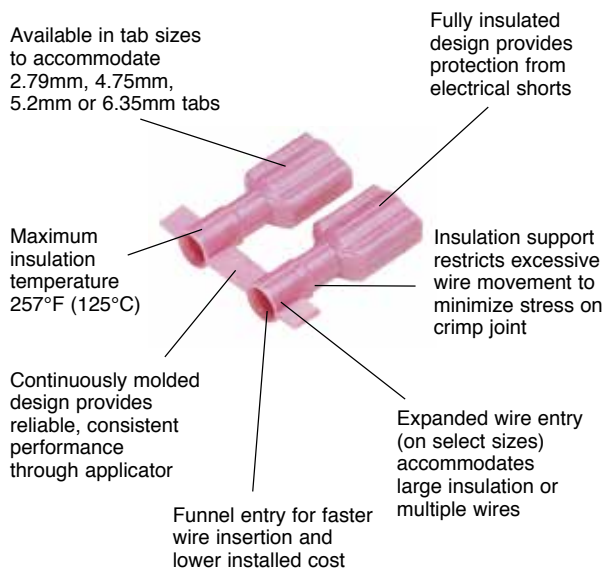
B1.
Cable Ties
and Tools

B2.
Cable
Accessories

B3.
Stainless Steel
Cable Ties,
Tools and
Accessories

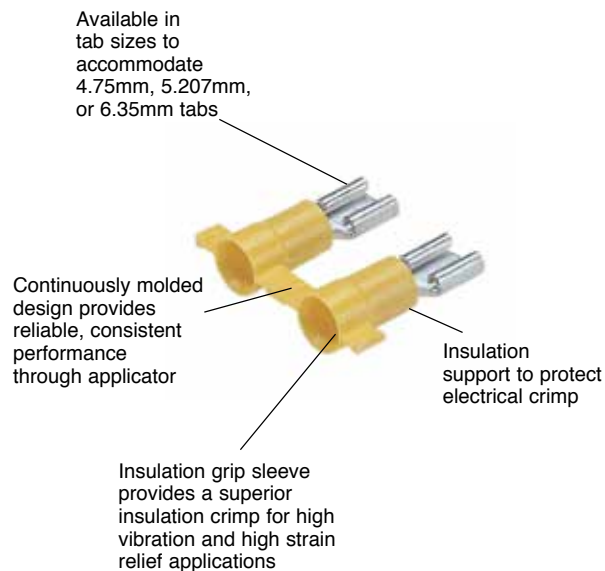
C1.
Wiring
Duct

Standard and Premium Nylon Fully Insulated, Funnel Entry, Females Receptacles and Male Tabs Type DPF



UL and CSA Rated up to 600 V per UL 310.
Flammability UL 94V-2.

Vinyl Barrel Insulated Funnel Entry, Female Receptacles and Male Tabs Type DV



UL and CSA Rated up to 600 V.
Flammability UL 94V-0.

C2.
Abrasion
Protection

D1.
Terminals
and
Ferrules

E1.
Labeling
Systems

E2.
Labels

E3.
Permanent
Identification

F.
Part
Number
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Part Number System for Reel Smart™ Disconnects

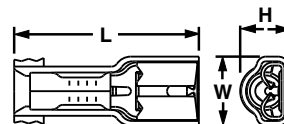
D	NF	14	—	250	FIB	3K
Type	Insulation	Wire Range		Size and Type	Special Configuration	Std. Pkg. Size
D = Disconnects	NF = Nylon Funnel Entry	18 = #22 – 18 14 = #16 – 14 10 = #12 – 10		110 = 0.110 x 0.032 tab size 111 = 0.110 x 0.020 tab size 187 = 0.187 x 0.032 tab size 188 = 0.187 x 0.020 tab size 205 = 0.187/0.205 x 0.032 tab size 206 = 0.187/0.205 x 0.020 tab size 250 = 0.250 x 0.032 tab size	B = Butted seam C = Compression tab FB = Metal insulation grip, female FIB = Fully insulated, butted seam, female FIBX = Fully insulated, butted seam, female, expanded wire entry FIM = Fully insulated male FIMB = Fully insulated, male, oversized housing FIMX = Fully insulated, male, expanded wire entry	K = 1,000 KD = 1,500 2K = 2,000 3K = 3,000
	NG = Nylon Funnel Entry Metal Insulation Grip					
	NFR = Nylon Funnel Entry Right Angle					
	PF = Premium Grade Nylon (Double Crimp)					
	V = Vinyl			0.187/0.205: Expandable receptacle will accept male tabs from 0.187" to 0.205" widths in 0.032" or 0.020" thick styles. Fully reliable connection through all widths.	M = Male MB = Male butted seam	



Supra-Grip™ Female Disconnects, Nylon Fully Insulated – Funnel Entry

Type DNG-FB

- Continuously molded design provides reliable, consistent performance through the applicator for a high quality termination every time
- Disconnect can be inserted and removed from the male tab without the use of tools for lower installed cost
- Flared barrel extension integrated into stamping to provide insulation grip for double crimp requirements
- Internal barrel serrations assure good wire contact and maximum tensile strength
- Internal wire stop assures proper length of insertion into terminal barrel, providing a higher-quality connection
- Mates with DNF-FIMB family
- UL Flammability UL 94 HB, maximum insulation temperature 221°F (105°C)
- UL and CSA rated up to 600 V per UL 310



Part Number	Wire Range	Color Code	Max Ins. (In.)	Figure Dimensions (In.)			Tab Size		CA9 Series Crimp Die	CA-800/EZ Series Crimp Die	Pieces Per Reel
				L	W	H	In.	mm			
DNG18-187FB-3K	22 – 18 AWG	Red	0.126	0.89	0.29	0.22	0.187 x 0.032	4.8 x 0.8	CD9-15A	CD-800-15	3000
DNG18-188FB-3K				0.89	0.29	0.22	0.187 x 0.020	4.8 x 0.5			3000
DNG18-250FB-3K				0.93	0.35	0.23	0.250 x 0.032	6.3 x 0.8			3000
DNG14-187FB-3K*	16 – 14 AWG	Blue	0.153	0.89	0.29	0.25	0.187 x 0.032	4.8 x 0.8	CD9-16A	CD-800-16	3000
DNG14-188FB-3K				0.89	0.29	0.25	0.187 x 0.020	4.8 x 0.5			3000
DNG14-250FB-3K				0.93	0.35	0.25	0.250 x 0.032	6.3 x 0.8			3000

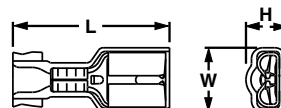
*UL Recognized for copper alloy tabs only.



Female Disconnects, Nylon Fully Insulated – Funnel Entry

Type DNF-FIB

- Continuously molded design provides reliable, consistent performance through the applicator for a high quality termination every time
- Disconnect can be inserted and removed from the male tab without the use of tools for lower installed cost
- Fully insulated design provides protection from electrical shorts
- Disconnects available in common industry tab sizes
- Internal wire stop assures proper length of insertion into terminal barrel, providing a higher quality connection
- UL Flammability UL 94 HB, maximum insulation temperature 221°F (105°C)
- UL and CSA rated up to 600 V per UL 310



B1.
Cable Ties
and Tools

B2.
Cable
Accessories

B3.
Stainless Steel
Cable Ties,
Tools and
Accessories

C1.
Wiring
Duct

C2.
Abrasion
Protection

D1.
Terminals
and
Ferrules

E1.
Labeling
Systems

E2.
Labels

E3.
Permanent
Identification

F.
Part
Number
Index

Part Number	Wire Range	Color Code	Max Ins. (In.)	Figure Dimensions (In.)			Tab Size		CA9 Series Crimp Die	CA-800/EZ Series Crimp Die	Pieces Per Reel
				L	W	H	In.	mm			
DNF18-110FIB-3K	22 – 18 AWG	Red	0.120	0.71	0.19	0.15	0.110 x 0.032	2.8 x 0.8	CD9-7A	CD-800-7	3000
DNF18-111FIB-3K		Red	0.120	0.71	0.19	0.15	0.110 x 0.020	2.8 x 0.5	CD9-7A	CD-800-7	3000
DNF18-112FIB-3K*		Natural	0.120	0.71	0.19	0.15	0.110 x 0.010	2.8 x 0.3	CD9-7A	CD-800-7	3000
DNF18-187FIB-3K		Red	0.136	0.78	0.29	0.16	0.187 x 0.032	4.8 x 0.8	CD9-4A	CD-800-4	3000
DNF18-188FIB-3K		Red	0.136	0.78	0.29	0.16	0.187 x 0.020	4.8 x 0.5	CD9-4A	CD-800-4	3000
DNF18-205FIB-3K		Red	0.136	0.78	0.31	0.22	0.187/0.205 x 0.032	4.8/5.2 x 0.8	CD9-4A	CD-800-4	3000
DNF18-206FIB-3K		Red	0.136	0.78	0.31	0.22	0.187/0.205 x 0.020	4.8/5.2 x 0.5	CD9-4A	CD-800-4	3000
DNF18-250FIB-3K**		Red	0.136	0.84	0.35	0.22	0.250 x 0.032	6.3 x 0.8	CD9-4A	CD-800-4	3000
DNF14-187FIB-3K	16 – 14 AWG	Blue	0.160	0.78	0.29	0.18	0.187 x 0.032	4.8 x 0.8	CD9-5A	CD-800-5	3000
DNF14-188FIB-3K			0.160	0.78	0.29	0.18	0.187 x 0.020	4.8 x 0.5	CD9-5A	CD-800-5	3000
DNF14-205FIB-3K			0.160	0.78	0.31	0.22	0.187/0.205 x 0.032	4.8/5.2 x 0.8	CD9-5A	CD-800-5	3000
DNF14-206FIB-3K			0.160	0.78	0.31	0.22	0.187/0.205 x 0.020	4.8/5.2 x 0.5	CD9-5A	CD-800-5	3000
DNF14-250FIB-3K			0.160	0.84	0.35	0.22	0.250 x 0.032	6.3 x 0.8	CD9-5A	CD-800-5	3000
DNF10-250FIB-2K	12 – 10 AWG	Yellow	0.220	0.96	0.35	0.23	0.250 x 0.032	6.3 x 0.8	CD9-13B	CD-800-13	2000
DNF10250FIB-2K‡			0.220	0.96	0.35	0.23	0.250 x 0.032	6.4 x 0.8	CD9-13B	CD-800-13	2000

*UL/CSA standards do not exist for 0.110" x 0.010" receptacles.

**UL with 17 AWG wire.

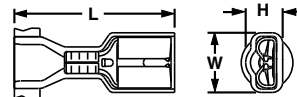
‡Compressor tab disconnect to fit 0.250" tabs with a post style support.



Disco™ Female Disconnects, Nylon Fully Insulated – Expanded Wire Entry

Type DNF-FIBX

- Continuously molded design provides reliable, consistent performance through the applicator for a high quality termination every time
- Disconnect can be inserted and removed from the male tab without the use of tools for lower installed cost
- Expanded wire entry designed to accommodate wire with a larger insulation thickness
- Fully insulated design provides protection from electrical shorts
- Internal wire stop assures proper length of insertion into terminal barrel, providing a higher quality connection
- UL Flammability UL 94 HB, maximum insulation temperature 221°F (105°C)
- UL and CSA rated up to 600 V per UL 310



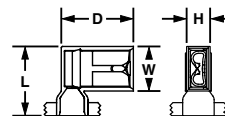
Part Number	Wire Range	Color Code	Max Ins. (In.)	Figure Dimensions (In.)			Tab Size		CA9 Series Crimp Die	CA-800/EZ Series Crimp Die	Pieces Per Reel
				L	W	H	In.	mm			
DNF18205FIBX-2K	22 – 18 AWG	Red	0.210	0.87	0.31	0.22	0.187/0.205 x 0.032	4.8/5.2 x 0.8	CD9-6B	CD-800-6	2000
DNF18206FIBX-2K				0.87	0.31	0.22	0.187/0.205 x 0.020	4.8/5.2 x 0.5			2000
DNF18250FIBX-2K				0.93	0.35	0.22	0.250 x 0.032	6.3 x 0.8			2000
DNF14205FIBX-2K	16 – 14 AWG	Blue	0.240	0.87	0.31	0.22	0.187/0.205 x 0.032	4.8/5.2 x 0.8	CD9-8B	CD-800-6	2000
DNF14206FIBX-2K				0.87	0.31	0.22	0.187/0.205 x 0.020	4.8/5.2 x 0.5			2000
DNF14250FIBX-2K				0.93	0.35	0.22	0.250 x 0.032	6.3 x 0.8			2000



Disco™ Female Disconnects, Nylon Fully Insulated – Right Angle

Type DNFR-FIB

- Continuously molded design provides reliable, consistent performance through the applicator for a high quality termination every time
- Right angle design for use in limited space applications
- Fully insulated design provides protection from electrical shorts
- Internal wire stop assures proper length of insertion into terminal barrel, providing a higher quality connection
- Disconnect can be inserted and removed from the male tab without the use of tools for lower installed cost
- UL Flammability UL 94 HB, maximum insulation temperature 221°F (105°C)
- UL and CSA rated up to 600 V per UL 310



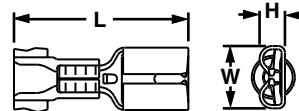
Part Number	Wire Range	Color Code	Max Ins. (In.)	Figure Dimensions (In.)				Tab Size		CA9 Series Crimp Die	CA-800/EZ Series Crimp Die	Pieces Per Reel
				L	W	H	D	In.	mm			
DNFR18205FIB-KD	22 – 18 AWG	Red	0.178	0.57	0.37	0.21	0.60	0.187/0.205 x 0.032	4.8/5.2 x 0.8	CD9-9C	CD-800-9	1500
DNFR18206FIB-KD				0.57	0.37	0.21	0.60	0.187/0.205 x 0.020	4.8/5.2 x 0.5			1500
DNFR18250FIB-KD				0.57	0.37	0.21	0.60	0.250 x 0.032	6.3 x 0.8			1500
DNFR14205FIB-KD	16 – 14 AWG	Blue		0.57	0.37	0.21	0.60	0.187/0.205 x 0.032	4.8/5.2 x 0.8			1500
DNFR14206FIB-KD				0.57	0.37	0.21	0.60	0.187/0.205 x 0.020	4.8/5.2 x 0.5			1500
DNFR14250FIB-KD				0.57	0.37	0.21	0.60	0.250 x 0.032	6.3 x 0.8			1500



Disco™ Female Disconnects, Vinyl Barrel Insulated – Funnel Entry

Type DV-B

- Continuously molded design provides reliable, consistent performance through the applicator for a high quality termination every time
- Disconnect can be inserted and removed from the male tab without the use of tools for lower installed cost
- Internal barrel serrations assure good wire contact and maximum tensile strength
- Internal wire stop assures proper length of insertion into terminal barrel, providing a higher quality connection
- UL Flammability UL 94V-0, maximum insulation temperature 221°F (105°C)
- UL and CSA rated up to 600 V per UL 310



Part Number	Wire Range	Color Code	Max Ins. (In.)	Figure Dimensions (In.)			Tab Size		CA9 Series Crimp Die	CA-800/EZ Series Crimp Die	Pieces Per Reel
				L	W	H	In.	mm			
DV18-187B-3K	22 – 18 AWG	Red	0.150	0.77	0.23	0.10	0.187 x 0.032	4.8 x 0.8	CD9-1A	CD-800-1	3000
DV18-188B-3K			0.150	0.77	0.23	0.09	0.187 x 0.020	4.8 x 0.5			3000
DV18-205B-3K			0.150	0.77	0.25	0.12	0.187/0.205 x 0.032	4.8/5.2 x 0.8			3000
DV18-206B-3K			0.150	0.77	0.25	0.11	0.187/0.205 x 0.020	4.8/5.2 x 0.5			3000
DV18-250B-3K			0.150	0.83	0.29	0.12	0.250 x 0.032	6.3 x 0.8			3000
DV14-187B-3K	16 – 14 AWG	Blue	0.170	0.77	0.23	0.10	0.187 x 0.032	4.8 x 0.8	CD9-2A	CD-800-2	3000
DV14-188B-3K			0.170	0.77	0.23	0.09	0.187 x 0.020	4.8 x 0.5			3000
DV14-205B-3K			0.170	0.77	0.25	0.12	0.187/0.205 x 0.032	4.8/5.2 x 0.8			3000
DV14-206B-3K			0.170	0.77	0.25	0.11	0.187/0.205 x 0.020	4.5/5.2 x 0.5			3000
DV14-250B-3K			0.170	0.83	0.29	0.12	0.250 x 0.032	6.3 x 0.8			3000
DV10-250-2K*	12 – 10 AWG	Yellow	0.230	0.95	0.29	0.12	0.250 x 0.032	6.3 x 0.8	CD9-3B	CD-800-3	2000
DV10-250C-2K†**			0.230	0.95	0.29	0.12	0.250 x 0.032	6.4 x 0.8			2000

*Not UL Listed or CSA Certified.

**UL Recognized and CSA Certified.

†Compression tab disconnect to fit 0.250" tabs with a post style support.

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Overview

B1.
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B3.
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C1.
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C2.
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D1.
Terminals
and
Ferrules

E1.
Labeling
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E2.
Labels

E3.
Permanent
Identification

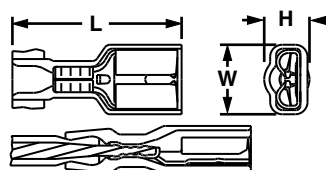
F.
Part
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Index



DiscoGrip™ Female Disconnects, Fully Insulated

Type DPF-FIB

- Continuously molded design provides reliable, consistent performance through the applicator for a high quality termination every time
- Disconnect can be inserted and removed from the male tab without the use of tools for lower installed cost
- Premium nylon insulation retains its shape when crimped and provides a tight grip around the wire insulation for maximum strain relief
- Fully insulated design provides protection from electrical shorts
- Internal wire stop assures proper length of insertion into terminal barrel, providing a higher quality connection
- UL Flammability UL 94V-2, maximum insulation temperature 221°F (105°C)
- UL and CSA rated up to 600 V per UL 310



Cross section of DiscoGrip™ Crimp showing insulation crimp of the wire insulation.

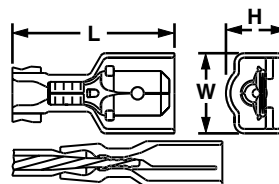
Part Number	Wire Range	Color Code	Max Ins. (In.)	Figure Dimensions (In.)			Tab Size		CA9 Series Crimp Die	CA-800/EZ Series Crimp Die	Pieces Per Reel
				L	W	H	In.	mm			
DPF18-110FIB-3K	22 – 18 AWG	Red	0.132	0.71	0.19	0.17	0.110 x 0.032	2.8 x 0.8	CD9-12A	CD-800-12	3000
DPF18-111FIB-3K			0.132	0.71	0.19	0.17	0.110 x 0.020	2.8 x 0.5			3000
DPF18-187FIB-3K			0.136	0.78	0.29	0.16	0.187 x 0.032	4.8 x 0.8			3000
DPF18-188FIB-3K			0.136	0.78	0.29	0.16	0.187 x 0.020	4.8 x 0.5	CD9-10A	CD-800-10	3000
DPF18-205FIB-3K			0.136	0.78	0.31	0.22	0.187/0.205 x 0.032	4.8/5.2 x 0.8			3000
DPF18-206FIB-3K			0.136	0.78	0.31	0.22	0.187/0.205 x 0.020	4.8/5.2 x 0.5			3000
DPF18-250FIB-3K			0.136	0.84	0.35	0.22	0.250 x 0.032	6.3 x 0.8			3000
DPF14-187FIB-3K	16 – 14 AWG	Blue	0.160	0.78	0.29	0.18	0.187 x 0.032	4.8 x 0.8	CD9-11A	CD-800-11	3000
DPF14-205FIB-3K			0.160	0.78	0.31	0.22	0.187/0.205 x 0.032	4.8/5.2 x 0.8			3000
DPF14-206FIB-3K			0.160	0.78	0.31	0.22	0.187/0.205 x 0.020	4.8/5.2 x 0.5			3000
DPF14-250FIB-3K			0.160	0.84	0.35	0.22	0.250 x 0.032	6.3 x 0.8			3000
DPF10-250FIB-2K	12 – 10 AWG	Yellow	0.220	0.96	0.35	0.23	0.250 x 0.032	6.3 x 0.8	CD9-13B	CD-800-13	2000



DiscoGrip™ Male Disconnects, Fully Insulated

Type DPF-FIM

- Continuously molded design provides reliable, consistent performance through the applicator for a high quality termination every time
- Disconnect can be inserted and removed from the male tab without the use of tools for lower installed cost
- Fully insulated design provides protection from electrical shorts
- Premium nylon insulation retains its shape when crimped and provides a tight grip around the wire insulation for maximum strain relief
- Oversized housing designed for maximum versatility to mate with most commercially available fully insulated female disconnects
- Internal wire stop assures proper length of insertion into terminal barrel, providing a higher quality connection
- UL Flammability UL 94V-2, maximum insulation temperature 221°F (105°C)
- UL and CSA rated up to 600 V per UL 310



Cross section of DiscoGrip™ Crimp showing insulation crimp of the wire insulation.

Part Number	Wire Range	Color Code	Max Ins. (In.)	Figure Dimensions (In.)			Tab Size		CA9 Series Crimp Die	CA-800/EZ Series Crimp Die	Pieces Per Reel
				L	W	P	In.	mm			
Standard Housing											
DPF18-250FIM-2K	22 – 18 AWG	Red	0.133	0.90	0.41	0.29	0.250 x 0.032	6.3 x 0.8	CD9-10B	CD-800-10	2000
DPF14-250FIM-2K	16 – 14 AWG	Blue	0.156						CD9-11B	CD-800-11	2000
Oversized Housing											
DPF18-250FIMB-K*	22 – 18 AWG	Red	0.133	0.92	0.46	0.34	0.250 x 0.032	6.3 x 0.8	CD9-10B	CD-800-10	1000
DPF14-250FIMB-K*	16 – 14 AWG	Blue	0.156						CD9-11B	CD-800-11	1000

*To mate with other manufacturers' fully insulated 0.250 x 0.032 female receptacles.

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B1.
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Accessories

B3.
Stainless Steel
Cable Ties,
Tools and
Accessories

C1.
Wiring
Duct

C2.
Abrasion
Protection

D1.
Terminals
and
Ferrules

E1.
Labeling
Systems

E2.
Labels

E3.
Permanent
Identification

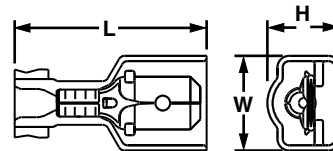
F.
Part
Number
Index



Disco™ Male Disconnects, Nylon Fully Insulated – Funnel Entry

Type DNF-FIM

- Continuously molded design provides reliable, consistent performance through the applicator for a high quality termination every time
- Male tab couples with (all 0.250 x 0.032) female disconnects
- Fully insulated design provides protection from electrical shorts
- Male tab can be inserted and removed from the female disconnect without the use of tools for lower installed cost
- UL Flammability UL 94 HB, maximum insulation temperature 221°F (105°C)
- UL and CSA rated up to 600 V per UL 310



Part Number	Wire Range	Color Code	Max Ins. (In.)	Figure Dimensions (In.)			Tab Size		CA9 Series Crimp Die	CA-800/EZ Series Crimp Die	Pieces Per Reel
				L	W	P	In.	mm			
Standard Housing											
DNF18-250FIM-2K	22 – 18 AWG	Red	0.133	0.90	0.42	0.30	0.250 x 0.032	6.3 x 0.8	CD9-4B	CD-800-4	2000
DNF14-250FIM-2K	16 – 14 AWG	Blue	0.158	0.90	0.42	0.30	0.250 x 0.032	6.3 x 0.8	CD9-5B	CD-800-5	2000
Oversized Housing											
DNF18-250FIMB-K*	22 – 18 AWG	Red	0.135	0.91	0.45	0.34	0.250 x 0.032	6.3 x 0.8	CD9-4B	CD-800-4	1000
DNF14-250FIMB-K*	16 – 14 AWG	Blue	0.160	0.91	0.46	0.34	0.250 x 0.032	6.3 x 0.8	CD9-5B	CD-800-5	1000
DNF10-250FIMB-K	12 – 10 AWG	Yellow	0.220	0.96	0.45	0.36	0.250 x 0.032	6.3 x 0.8	CD9-18B	CD-800-18	1000

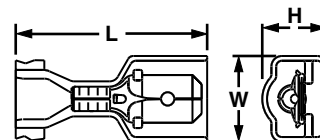
*To mate with other manufacturers' fully insulated 0.250 x 0.032 female receptacles.



Disco™ Male Disconnects, Nylon Fully Insulated – Expanded Wire Entry

Type DNF-FIMX

- Continuously molded design provides reliable, consistent performance through the applicator for a high quality termination every time
- Expanded wire entry designed to accommodate wire with a larger insulation thickness
- Male tab couples with (all 0.250 x 0.032) female disconnects
- Fully insulated design provides protection from electrical shorts
- Male tab can be inserted and removed from the female disconnect without the use of tools for lower installed cost
- Internal barrel serrations assure good wire contact and maximum tensile strength
- UL Flammability UL 94 HB, maximum insulation temperature 221°F (105°C)
- UL and CSA rated up to 600 V per UL 310



Part Number	Wire Range	Color Code	Max Ins. (In.)	Figure Dimensions (In.)			Tab Size		CA9 Series Crimp Die	CA-800/EZ Series Crimp Die	Pieces Per Reel
				L	W	H	In.	mm			
DNF18250FIMX-2K*	22 – 18 AWG	Red	0.244	0.97	0.41	0.29	0.250 x 0.032	6.3 x 0.8	CD9-8B	CD-800-8	2000
DNF14250FIMX-2K**	16 – 14 AWG	Blue									2000

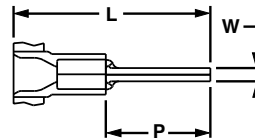
*CSA Certified for use with (2) #18 AWG, (2) #20 AWG, or (2) #22 AWG wires.

**CSA Certified for use with (2) #16 AWG or (2) #18 AWG wires.

Pin Terminals, Vinyl Insulated – Funnel Entry

Type PV-PB

- Continuously molded design provides reliable, consistent performance through the applicator for a high quality termination every time
- Solid pin designed to prevent damage to the wire from over tightening, resulting in a reliable electrical connection
- For use with pin-type terminal blocks
- Insulation support helps to prevent wire damage in bending applications
- UL Flammability UL 94V-0, maximum insulation temperature 221°F (105°C)
- UL rated up to 600 V per UL 486A/B



Part Number	Wire Range	Color Code	Max Ins. (In.)	Figure Dimensions (In.)			CA9 Series Crimp Die	CA-800/EZ Series Crimp Die	Pieces Per Reel
				L	W	P			
PV18-P47B-3K	22 – 18 AWG	Red	0.150	0.90	0.07	0.49	CD9-1A	CD-800-1	3000
PV14-P47B-3K	16 – 14 AWG	Blue	0.170	0.90	0.07	0.49	CD9-2A	CD-800-2	3000

B1.
Cable Ties
and Tools

B2.
Cable
Accessories

B3.
Stainless Steel
Cable Ties,
Tools and
Accessories

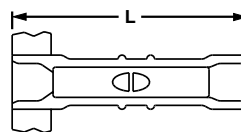
C1.
Wiring
Duct



Butt Splices Nylon Insulated and Premium Grade Nylon

Type BSN, BSP

- Continuously molded design provides reliable, consistent performance through the applicator for a high quality termination every time
- Designed to splice two solid or stranded wires together to repair or lengthen wires
- Butted configuration provides low profile for limited space applications
- Brazed seam protects terminal barrel from splitting during the crimp process
- Internal wire stop assures proper length of insertion into terminal barrel
- Premium grade nylon insulation available for applications requiring a tighter grip around the wire insulation for maximum strain relief
- UL Flammability UL 94V-2/HB, maximum insulation temperature 221°F (105°C)
- UL and CSA rated up to 600 V per UL 486C



Part Number	Wire Range	Color Code	Max Ins. (In.)	Figure Dimensions (In.)	CA9 Series Crimp Die	CA-800/EZ Series Crimp Die	Pieces Per Reel
				L			
BSN18-3K	22 – 16 AWG	Red	0.150	0.95	CD9-1A	CD-800-1	3000
BSN14-3K	18 – 14 AWG	Blue	0.170	0.95	CD9-2A	CD-800-2	3000
BSN10-2K	12 – 10 AWG	Yellow	0.230	0.95	CD9-17B	CD-800-17	2000
BSP18-3K	22 – 16 AWG	Red	0.150	0.96	CD9-1A	CD-800-1	3000
BSP14-3K	18 – 14 AWG	Blue	0.170	0.96	CD9-2A	CD-800-2	3000

C2.
Abrasion
Protection

D1.
Terminals
and
Ferrules

E1.
Labeling
Systems

E2.
Labels

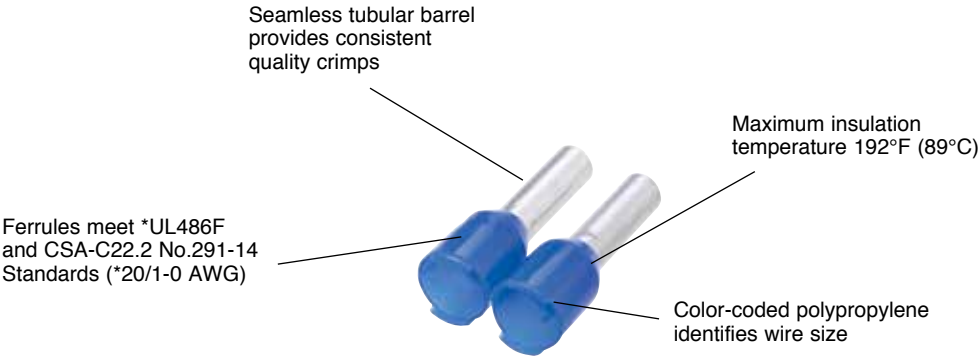
E3.
Permanent
Identification

F.
Part
Number
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Features and Benefits – Reel Smart™ Ferrules

Panduit® ferrules are available in strips and reels for wiring applications from #20 – 14 AWG. Offerings include insulated ferrules in single wire configurations. These insulated ferrules are color-coded to DIN standards.

Insulated Ferrules – Single Wire
Type FSD



Part Number System for Reel Smart® Ferrules

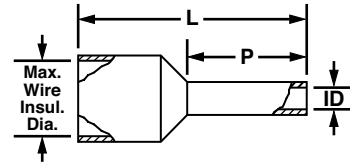
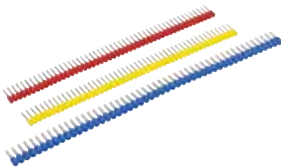
F	S	D	75	—	8	3K or DSL	10
Type	Wire Type	Color Code	Wire Size (mm²)		PIN Length	Std. Pkg. Size	Color-Code Number
F = Ferrule	S = Single	D = DIN = Standard (leave blank)				3K = 3,000 2KD = 2500 KD = 1500 K = 1000 DSL = 500	0 = Black 2 = Red 6 = Blue 8 = Gray 10 = White



Insulated Ferrules on Strips – Single Wire

Type FS

- Polypropylene insulation housing available in DIN standard colors in strips of 50
- Continuously molded design provides consistent placement of ferrules in tool to ensure fast, reliable terminations
- Available in #20 – 14 AWG featuring a seamless barrel design to contain loose wire strands for superior terminations
- Designed for use with the Semiautomatic Ferrule Crimping Tool CT-1000 for medium volume applications



Part Number	Wire Size		Color	Max. Wire Ins. Dia.		Figure Dimensions						Wire Strip Length		Recommended Installation Tool	Std. Pkg. Qty.
	AWG	mm2		In.	mm.	L		P		ID		In.	mm.		
DIN End Sleeves:															
FSD75-8-DSL10	22- 20 AWG	0.50	White	0.10	2.6	0.60	15.2	0.31	8.0	0.04	1.0	13/32	10.0	CT-1000	500
FSD76-8-DSL8	18 AWG	0.75	Gray	0.11	2.7	0.60	15.2	0.31	8.0	0.06	1.5	13/32	10.0		500
FSD77-8-DSL2		1.00	Red	0.12	3.0	0.60	15.2	0.31	8.0	0.07	1.8	13/32	10.0		500
FSD78-8-DSL0	16 AWG	1.50	Black	0.13	3.2	0.60	15.2	0.31	8.0	0.09	2.3	13/32	10.0		500
FSD80-8-DSL6	14 AWG	2.50	Blue	0.16	4.0	0.60	15.2	0.31	8.0	0.09	2.3	13/32	10.0		500

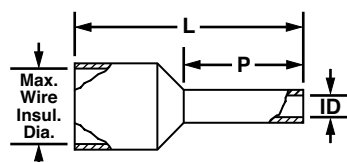
Part Number	Wire Size		Color	Max. Wire Ins. Dia.		Figure Dimensions						Wire Strip Length		Recommended Installation Tool	Pieces per Reel
	AWG	mm²		In.	mm.	L		P		ID					
						In.	mm.	In.	mm.	In.	mm.	In.	mm.		
Mini Reels															
FSD75-8-K	20 AWG	0.5	White	0.09	2.4	0.57	14.5	0.31	8	0.04	1.1	13/32	10.0	CP-881	1000
FSD76-8-K	18 AWG	0.75	Gray	0.1	2.6	0.57	14.5	0.31	8	0.05	1.3	13/32	10.0		1000
FSD77-8-K		1	Red	0.11	2.8	0.57	14.5	0.31	8	0.06	1.5	13/32	10.0		1000
FSD78-8-K	16 AWG	1.5	Black	0.13	3.2	0.57	14.5	0.31	8	0.07	1.8	13/32	10.0		1000
FSD80-8-DK	14 AWG	2.5	Blue	0.15	3.9	0.57	14.5	31	8	0.09	2.3	13/32	10.0		500



Insulated Ferrules on Reels – Single Wire

Type FS

- Polypropylene insulation housing available in DIN standard colors in reels of 500 - 3000
- Designed specifically for use with the Ferrule Applicator SCA-712022002 (CA10) for high volume applications
- Continuously molded design provides consistent placement of ferrules in applicator to ensure fast, reliable terminations
- Available in #20 – 14 AWG featuring a seamless barrel design to contain loose wire strands for superior terminations



Part Number	Wire Size		Color	Max. Wire Ins. Dia.		Figure Dimensions						Wire Strip Length		CA10 Series Dies	CP-881 Inserts	Pieces per Reel
	AWG	mm ²		In.	mm.	L	P	ID	In.	mm.	In.	mm.				
DIN End Sleeves:																
FSD75-8-3K10	20 AWG	0.5	White	0.09	2.4	0.57	14.5	0.31	8	0.04	1.1	13/32	10.0	SCA-712022005WE (CD10-1)	White	3000
FSD76-8-3K8	18 AWG	0.75	Gray	0.1	2.6	0.57	14.5	0.31	8	0.05	1.3	13/32	10.0		Gray	3000
FSD77-8-3K2		1	Red	0.11	2.8	0.57	14.5	0.31	8	0.06	1.5	13/32	10.0	SCA-712022006WE (CD10-2)	Red	3000
FSD78-8-3K0	16 AWG	1.5	Black	0.13	3.2	0.57	14.5	0.31	8	0.07	1.8	13/32	10.0		Black	2500
FSD80-8-3K6	14 AWG	2.5	Blue	0.15	3.9	0.57	14.5	31	8	0.09	2.3	13/32	10.0	SCA-712022007WE (CD10-3)	Blue	1500

Terminal Crimping Tools

Panduit® offers a wide assortment of tools to provide solutions for installing terminals, disconnects, splices, ferrules and lugs. Panduit installation tools provide quality performance and ease of installation at the lowest installed cost. The long-term reliability of Panduit installation tools provides the highest level of service to meet customer requirements.



- **Ergonomic design to minimize operator effort**
- **Features crimping tools with a controlled cycle mechanism ensuring repeat reliability in every crimp**
- **Superior locator ensures proper location of the terminal barrel or insulated disconnect in the crimp pocket**
- **Battery powered, hydraulic tools with fingertip operation are available to meet a variety of installation needs**
- **UL Listed and CSA Certified tooling/product combinations, as noted**

Panduit terminal crimping tools are available in an assortment of styles to meet a variety of installation needs. The installer can control the crimp with the plier type hand operated crimping tool. Hand operated Contour Crimp™ Controlled Cycle Crimping Tools feature ergonomically designed cushioned grips with low handle effort. Panduit terminal crimping tools are designed for use with Panduit terminals, providing the right solution for your termination needs.

If you are missing information from this catalog, please refer to the Full line catalog posted on panduit.com. All pictures shown are for illustration purposes only. Actual product may vary due to product enhancement.

Semiautomatic Ferrule Crimping Tool – CT-1000

- Innovative rapid load design utilizes continuously molded ferrules to significantly reduce installation time
- Adjustable die setting allows termination of all Panduit #20 – 14 AWG continuously molded ferrules with a single tool
- Controlled cycle tool cuts, strips, and crimps wire to maximize efficiency



Part Number	Part Description	Std. Pkg. Qty.
CT-1000	Controlled cycle crimp tool with trapezoid profile for #20 – 14 AWG (0.50 – 2.5mm ²) insulated continuously molded ferrules on strips. Also cuts and strips wire.	1

Semi-Automatic Ferrule Installer - CP-881

- The automated microprocessor feature provides a quick three step process (wire stripping, ferrule placement, and ferrule crimping) to reduce the average manual processing cycle time from 8 – 10 seconds to 1.5 seconds
- Digital LCD cycle counter display with reset button for batch quantity counting improves accuracy and efficiency
- Color coded die inserts allow visual matching between parts and die sets for fast efficient change over and reduced mismatching
- For use with Panduit® continuously molded #20 – 14 AWG (0.5 – 2.5mm²) DIN ferrules on reels of 1500 – 3000 or mini-reels of 500 – 1000 pieces to deliver a superior solution for quality, high volume terminations
- Lightweight with built-in handle for easy movement of tool from workstation to workstation for maximum jobsite flexibility and productivity



CP-881

A semi-automated tool that provides a quick three step process (wire stripping, ferrule placement, and ferrule crimping) with a cycle time of 1.5 seconds. This tool is used with Panduit continuously molded #20 – 14 AWG (0.5 – 2.5mm²) ferrules on mini-reels of 500 – 3000 pieces for quality, medium to high volume terminations. Included with the tool are color coded die inserts that allow visual matching between parts and die sets for fast efficient change over and reduced mismatching. The CP-881 tool is lightweight and has a built-in handle for easy movement of tool from workstation to workstation for maximum jobsite flexibility and productivity.

CP-881/E: 230V European version with type “C” plug

A semi-automated tool that provides a quick three step process (wire stripping, ferrule placement, and ferrule crimping) with a cycle time of 1.5 seconds. This tool is used with Panduit continuously molded #20 – 14 AWG (0.5 – 2.5mm²) ferrules on mini-reels of 500 – 3000 pieces for quality, medium to high volume terminations. Included with the tool are color coded die inserts that allow visual matching between parts and die sets for fast efficient change over and reduced mismatching. The CP-881 tool is lightweight and has a built-in handle for easy movement of tool from workstation to workstation for maximum jobsite flexibility and productivity.

Reel Smart™ Ferrule Applicator – SCA-712022002 (CA10)

- Designed for use with continuously molded ferrules in reels of 1,500 - 3,000 for high volume applications
- Precision ferrule indexing through applicator for optimum reliability and productivity
- Universal base plate allows compatibility with the UC 200 (CP-871) electric press, and other commercially available bench presses and automatic wire processing (AWP) machines
- Quick change die sets terminate the entire ferrule line to provide fast product change over and reduction in setup time; dies sold separately



Part Number	Part Description	Std. Pkg. Qty.
SCA-712022002 (CA10)	Applicator used to terminates entire line of Reel Smart™ Continuously Molded Ferrules on reels. For use with UC 200 (CP-871) Electric Press and SCA (CD10) series die sets.	1
SCA-712022005WE (CD10-1)	Die insert to be used with the CA10 applicator to terminate FSD75 and FSD76 Reel Smart™ Continuously Molded Ferrules.	1
SCA-712022006WE (CD10-2)	Die insert to be used with the CA10 applicator to terminate FSD77 and FSD78 Reel Smart™ Continuously Molded Ferrules.	1
SCA-712022007WE (CD10-3)	Die insert to be used with the CA10 applicator to terminate FSD80 Reel Smart™ Continuously Molded Ferrules.	1

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Tools and
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C2.
Abrasion
Protection

CA9 Ezair™ and CA-800EZ Applicators

- Designed to terminate all continuously molded terminals, disconnects, and splices in reels of 500 - 3,000 for high volume applications
- Precision terminal indexing through applicator for optimum reliability and productivity
- Universal base plate allows compatibility with the UC 200 (CP-871) & UC100 electric press, and other commercially available bench presses and automatic wire processing (AWP) machines
- Quick change die sets allow for fast product change over and reduction in setup time; dies sold separately



Part Number	Part Description	Std. Pkg. Qty.
CA-800EZ*	Applicator: runs in the AMP* Model T and K bench presses. True "quick change" applicator — no additional plates are necessary. Slide right into the press for easy changeover. Uses CD-800 series die inserts.	1
CA9	CA9 Ezair™ Applicator: terminates the entire Reel Smart™ product line. This greatly reduces set up and maintenance time and increases productivity. This patented applicator is so smart it automatically adjusts feed stroke to the correct pitch and length for the entire product line. Crimp die changeover in less than 1 minute, minimizes downtime and increases productivity. Fast, easy loading of terminal parts without special instructions or setup personnel. Simply feed the parts strip into the applicator. All the necessary adjustments are made by the dies and the automatic feed stroke. Uses CD9 series insert dies. Used in UC 200 (CP-871) & UC100 electric press. Safety lockout guard ensures operator safety. Positive stop adjustment rings allow for electrical and insulation crimp adjustments as desired.	1

*AMP is a registered trademark of Tyco Electronics.

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Electric Bench Press

- For use with Panduit® Applicators and Reel Smart™ Continuously Molded Terminals and Ferrules to provide a superior solution for quality, high volume terminations
- UC 200 (CP-871) press has a microprocessor based controller and LCD that displays text messages and cycle count with multi-language capability
- Tool crimp height adjustment feature allows user to easily set and maintain desired crimp height for consistent performance
- Applicator can be changed without the use of tools to facilitate faster changeover for lower cost of ownership



Part Number	Part Description	Std. Pkg. Qty.
UC 200 (CP-871)	Electric press: 4000+ terminations per hour. Operates on 110 V current/60 Hz, 220 V current/50 Hz (field convertible). Overall size (without reel): 13" x 33" x 16". Total weight (without reel): 176 lbs. Includes foot pedal.	1

Die Sharpening Kits

- Used to sharpen cutting edges and maintain reliability of CD-800 and CD9 series cutter dies

Part Number	Part Description	Std. Pkg. Qty.
DSF-RS	For use with black oxide cutter dies.	1
DSF-NP	For use with nickel-plated cutter dies.	1

Die Information

Part Number	Color Code	AWG Wire Range	(1) Wire Insulation Strain Relief	Part No. Prefix	60/40 Solder Slug Diameter		Spare Part Number		
					In.	mm	Crimp Die	Cutter Die	Lower Die
CD-800-1	Red	22 – 18, 22 – 16	Plastic Ins. Crimp, Insulation Support, Metal Ins. Crimp, Plastic Ins. Crimp	PV, DV-MB, DV-B, BSN, PN, PNF, DNF-M, BSP (Premium Nylon)	0.188	4.78	TD13471C06 CD-800-1	TD13483C03 CD-800 C-1	TD17755B01 CD-1
(CD-800-1D***)		22–18							
CD-800-2	Blue	16 – 14, 18 – 14	Plastic Ins. Crimp, Insulation Support, Metal Ins. Crimp, Plastic Ins. Crimp	PV, DV-MB, DV-B, BSN, PN, PNF, DNF-M, BSP (Premium Nylon)			TD13473C05 CD-800-2	TD13486C03 CD-800C-2	TD17756B01 C-2
(CD-800-2D***)		16 – 14							
CD-800-3	Yellow	12 – 10, 14 – 10, 16 – 12	Plastic Ins. Crimp, Plastic Ins. Crimp, Metal Ins. Crimp, Plastic Ins. Crimp, Metal Ins. Crimp	PV, PV12, DV, DV-C, PN12, PV12, DV-M, PN, PNF, DNF-M			TD13475C06 CD-800-3	TD13489C03 CD-800C-3	TD17757B01 C-3
CD-800-4		12 – 18	Insulation Support	DNF-FIB, DNF-FIM, DNF-FIMB, DNF-LPB			TD13833C06 CD-800-4, 10	TD13505C03 CD-800 C-4	TD17758B01 C-4, 10
CD-800-5	Blue	16 – 14	Insulation Support	DNF-FIB, DNF-FIM, DNF-FIMB, DNF-LPB	0.125	3.18	TD13634C05 CD-800-5, 11	TD13508C03 CD-800 C-5	TD17759B01 C-5, 11
CD-800-6	Red	22 – 18	Insulation Support	DNF-FIBX			TD13652C04 CD-800-6	TD13499C03 CD-800C-6	TD17760B01 C-6
CD-800-7	Red	22 – 18	Insulation Support	DNF-110FIB, DNF-111FIB, DNF-112FIB			TD13477C05 CD-800-7, 12	TD13492C04 CD-800 C-7	TD17761B01 C-7, 12
CD-800-8	Red/Blue	22 – 18, 16 – 14	Insulation Support	DNF-FIBX, DNF-FIMX, DNF-FIMX			TD13481C06 CD-800-8	TD13502C04 CD-800 C-8	TD17762B01 C-8
CD-800-9	Red/Blue	22 – 14	Insulation Support	DNFR-FIB			TD13479C05 CD-800-9	TD13495C03 CD-800 C-9	TD17763B01 C-9
CD-800-10	Red	22 – 18	DiscoGrip™ Insulation Crimp	DPF-FIB, DPF-FIM, DPF-FIMB, DPF-LPB	0.188	4.78	TD13633C06 CD-800-4, 10	TD16233C03 CD-800 C-10	TD17758B01 C-4, 10
CD-800-11	Blue	16 – 14	DiscoGrip™ Insulation Crimp	DPF-FIM, DPF-FIMB, DPF-FIB, DPF-LPB			TD13634C05 CD-800-5, 10	TD16243C02 CD-800 C-11	TD17759B01 CD-5, 11
CD-800-12	Red	22 – 18	DiscoGrip™ Insulation Crimp	DPF-110FIB, DPF-111FIB	0.125	3.18	TD13477C05 CD-800-7, 12	TD16235C03 CD-800 C-12	TD17761B01 C-7, 12
CD-800-13	Yellow	12 – 10	Insulation Support, DiscoGrip™ Insulation Crimp	DNF-FIB, DPF-FIB	0.188	4.78	TD19116C03 CD-800-13	TD19115C03 CD-800 C-13	TD19424B01 C-13
CD-800-14	Red/Blue	22 – 18, 16 – 14	Metal Insulation Crimp	DNG-FL	0.125	3.18	TD22943C01 CD-800-14	TD22944C02 CD-800 C-14	TD22960B01 C-14
CD-800-15	Red	22 – 18	Metal Insulation Crimp	DNG-FB	0.188	4.78	TD22945C01 CD-800-15	TD22946C02 CD-800 C-15	TD22961B01 C-15
CD-800-16	Blue	16 – 14	Metal Insulation Crimp	DNG-FB			TD22947C01 CD-800-16	TD22948C02 CD-800 C-16	TD22962B01 C-16
CD-800-17	Yellow	12 – 10	Insulation Support	BSN			TD23601C01 CD-800-17	TD23600C01 CD-800-17	TD23612B01 CD-800-17
CD-800-18	Yellow	12 – 10	Plastic Insulation Crimp	DNF-FIMB			TD13475C06 CD-800-18	TD23773C01 CD-800-18	TD17757B01 CD-800-18

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TA13721A01 = 60/40 Solder Slug with 1/8" (0.125) outer diameter.

TA13722A01 = 60/40 Solder Slug with 3/16" (0.188) outer diameter.

(1) Insulation Support: Minimum wire insulation strain relief for normal applications.

Plastic and DiscoGrip™ Insulation Crimp: Secondary wire insulation strain relief for high vibration or conductor strain applications.

Metal Insulation Grip: Maximum wire insulation strain relief for high vibration or conductor strain applications.

***Modified lower die for barrel insulated disconnects DV-B series. Available as a complete die set or just lower die assembly.

Continues on next page

Part Number	Color Code	AWG Wire Range	Wire Insulation Strain Relief	Part No. Prefix	60/40 Solder Slug Diameter		Spare Part Number		
					In.	mm	Crimp Die	Cutter Die	Lower Die
CD9-1A	Red	22 – 16, 22 – 18	Insulation Support, Plastic Ins. Crimp, Plastic Ins. Crimp, Metal Ins. Grip	BSN, BSP, PV, DV-B, DV-MB, PN, PNF, DNF-M	0.188	4.78	TD24129C01	TD24139C01	TD24149C01
CD9-1AD***		22 – 18	Plastic Insulation Crimp, Metal Insulation Grip	PV, DV-B, DV-MB, PN, PNF, DNF-M	0.188	4.78			
CD9-1B		22 – 18	Plastic Insulation Crimp	PV-56R, PV-38R	0.188	4.78			
CD9-2A	Blue	18 – 14, 16 – 14	Insulation Support, Plastic Ins. Crimp, Insulation Support, Plastic Ins. Crimp, Metal Ins. Grip	BSN, BSP, BSN, PV, DV-B, DV-MB, PN, PNF, DNF-M	0.188	4.78	TD24130C01	TD24140C01	TD23712C01
CD9-2AD***		16 – 14	Insulation Support, Plastic Insulation Crimp, Metal Insulation Grip	BSN, PV, DV-B, DV-MB, PN, PNF, DNF-M	0.188	4.78			
CD9-2B		16 – 14	Plastic Insulation Crimp	PV-56R, PV-38R	0.188	4.78			
CD9-3B	Yellow	12 – 10, 16 – 12	Plastic Ins. Crimp, Metal Ins. Grip, Plastic Ins. Crimp	PV, DV, DV-M, PN, PNF, DNF-M, PV12, PN12	0.188	4.78	TD24131C01	TD24141C01	TD23713C01
CD9-4A	Red	22 – 18	Insulation Support	DNF-FIB, DNF-LPB	0.188	4.78	TD24132C01	TD24142C01	TD24150C01
CD9-4B		22 – 18	Insulation Support	DNF-FIM, DNF-FIMB	0.188	4.78			
CD9-5A	Blue	16 – 14	Insulation Support	DNF-FIB, DNF-LPB	0.188	4.78	TD24133C01	TD24143C01	TD24151C01
CD9-5B		16 – 14	Insulation Support	DNF-FIM, DNF-FIMB	0.188	4.78			
CD9-6B	Red	22 – 18	Insulation Support	DNF-FIBX	0.188	4.78	TD23700C01	TD23683C01	TD23716C01
CD9-7A	Red	22 – 18	Insulation Support	DNF-110, 111, 112FIB	0.125	3.18	TD23701C02	TD23684C01	TD23717C01
CD9-8B	Blue/ Red	16 – 14, 22 – 14	Insulation Support	DNF-FIBX, DNF-FIMX	0.188	4.78	TD23702C01	TD23685C01	TD23718C01
CD9-9C	Red/ Blue	22 – 14	Insulation Support	DNFR-FIB	0.125	3.18	TD23703C01	TD23686C01	TD23719C01
CD9-10A	Red	22 – 18	DiscoGrip™ Insulation Crimp	DPF-FIB, DPF-LPB	0.188	4.78	TD24132C01	TD24144C01	TD24150C01
CD9-10B	Red	22 – 18	DiscoGrip™ Insulation Crimp	DPF-FIM, DPF-FIMB	0.188	4.78			
CD9-11A	Blue	16 – 14	DiscoGrip™ Insulation Crimp	DPF-FIB, DPF-LPB	0.188	4.78	TD24133C01	TD23688C01	TD24151C01
CD9-11B	Blue	16 – 14	DiscoGrip™ Insulation Crimp	DPF-FIM, DPF-FIMB	0.188	4.78			
CD9-12A	Red	22 – 18	DiscoGrip™ Insulation Crimp	DPF-110FIB, DFP-111FIB	0.125	3.18	TD23701C02	TD23689C01	TD23717C01
CD9-13B	Yellow	12 – 10	Insulation Support, DiscoGrip™ Insulation Crimp	DNF-FIB, DPF-FIB	0.188	4.78	TD24134C01	TD24145C01	TD24152C01
CD9-14A	Red/ Blue	22 – 18, 16 – 14	Metal Insulation Grip	DNG-FL	0.125	3.18	TD23705C01	TD23691C01	TD23721C01
CD9-15A	Red	22 – 18	Metal Insulation Grip	DNG-FB	0.188	4.78	TD24135C01	TD24146C01	TD24153C01
CD9-16A	Blue	16 – 14	Metal Insulation Grip	DNG-FB	0.188	4.78	TD24136C01	TD24147C01	TD24154C01
CD9-17B	Yellow	12 – 10	Insulation Support	BSN	0.188	4.78	TD24110C01	TD24109C01	TD24111C01 TD24112C01
CD9-18B	Yellow	12 – 10	Insulation Support	DNF-FIMB	0.188	4.78	TD24131C01	TD23766C01	TD23713C01
SCA-712022005WE (CD10-1)	—	20 – 18	Insulation Support	FSD75, FSD76	—	—	—	—	—
SCA-712022006WE (CD10-2)	—	18 – 16	Insulation Support	FSD77, FSD78	—	—	—	—	—
SCA-712022007WE (CD10-3)	—	14	Insulation Support	FSD80	—	—	—	—	—

Labeling Systems



Panduit® is a global leader in reliable and innovative solutions for identification and safety. Products are engineered for a wide variety of industries and applications – including electrical, electronics, industrial and network. Panduit provides enhanced productivity, reliability, and value with leading-edge software development, materials and equipment by designing and manufacturing a full line of labeling products, software and printers to assist you with your labeling requirements.



- **World-class quality – ISO 9001 and ISO 14001**
- **High performance and reliability**
- **Wide variety of system solutions to meet the most demanding requirements**
- **Meet and exceed the requirements of UL, CSA, ISO, NEC and OSHA**
- **Strong service and support network – distributor partners, knowledgeable sales people, expert technical support and world-class customer service**



Panduit provides a complete range of industrial products and tools – including hand-held labeling systems, desktop labeling systems, pre-printed labels and safety systems. Use Panduit for all identification needs for wire and cable, electrical and electronic devices, agency compliance, workplace safety and more.

If you are missing information from this catalog, please refer to the Full line catalog posted on panduit.com.

Printers: Thermal Transfer Desktop and Hand-Held

Panduit® desktop thermal transfer printers enable fast, high quality label production for all your identification requirements. Use Panduit labeling software and desktop thermal transfer printers to produce on demand identification solutions quickly and economically. Panduit hand-held printers are designed for flexibility. Programmed with advanced functionality, Panduit printers make custom labeling easy.



Hand-Held Printers

- Create labels at remote job sites
- Provide crisp, clear, high quality thermal transfer print
- Easily identify moves, adds, or changes



Desktop Printers

- Compatible with Panduit® Easy-Mark™ Plus Labeling Software
- Provide crisp, clear, high quality thermal transfer print
- Compatible with Windows^ based PC operating systems



Panduit printers and our wide variety of labels provide solutions for all your project labeling needs.

^Windows is a registered trademark of Microsoft Corporation in the United States and/or other countries.

If you are missing information from this catalog, please refer to the Full line catalog posted on panduit.com.

PanTher™ LS8E/LS8EQ Hand-Held Thermal Transfer Printers and Accessories

- Cut-to-length functionality eliminates label waste and label trimming labor
- Partial cut feature available to provide tear-apart strips of labels
- P1™ Label Cassette contains an integrated memory device for automatic formatting, recall of last legend used, and number of labels remaining in the cassette
- Market specific labeling tools simplify label creation for electrical components, panel building, and construction and maintenance
- USB interface for importing data, system upgrades, and printing from a wireless laptop or desktop computer
- Prints self-laminating labels, heat shrink tubing, die-cut component labels and continuous tapes
- Fast loading label cassette includes both label material and ribbon to make changing labels easy
- Large graphic display with backlight for improved visibility



LS8E-KIT



LS8EQ

Part Number	Part Description	Std. Pkg. Qty.
LS8EQ-KIT-ACS	Includes LS8EQ printer with QWERTY keypad, one cassette of S100X150VAC self-laminating labels, six AA alkaline batteries, LS8E-ACS, LS8-CASE, LS8-PCKIT, LS8-IB, LS8-WS, quick reference card and operator's manual.	1
LS8EQ-KIT	Includes LS8EQ printer with QWERTY keypad, one cassette of S100X150VAC self-laminating labels, six AA alkaline batteries, LS8-CASE, LS8-PCKIT, LS8-IB, LS8-WS, quick reference card and operator's manual.	1
LS8EQ	Includes LS8EQ printer with QWERTY keypad, one cassette of S100X150VAC self-laminating labels, six AA alkaline batteries and quick reference card.	1
LS8E-KIT-ACS	Includes LS8E printer, one cassette of S100X150VAC self-laminating labels, six AA alkaline batteries, LS8E-ACS, LS8-CASE, LS8-PCKIT, LS8-IB, LS8-WS, quick reference card and operator's manual.	1
LS8E-KIT	Includes LS8E printer, one cassette of S100X150VAC self-laminating labels, six AA alkaline batteries, LS8-CASE, LS8-PCKIT, LS8-IB, LS8-WS, quick reference card and operator's manual.	1
LS8E	Includes LS8E printer, one cassette of S100X150VAC self-laminating labels, six AA alkaline batteries and quick reference card.	1
LS8E-ACS*	120 VAC power adapter for North America.	1
LS8-CASE	Rigid carrying case.	1
LS8-PCKIT	Includes USB cable and PC interface software for importing data, system upgrades, or printing from a wireless laptop or desktop computer.	1
LS8-IB	Protective impact bumper.	1
LS8-WS	Wrist strap.	1
LS8-CLN	LS8/LS8E cleaning kit – contains bottle of cleaning solution with MSDS, cleaning pen, swabs, alcohol wipes and cleaning instructions.	1

*Cannot be used to charge batteries. Other adapters available, replace S with A (Australia), and E (Europe) and U (UK).

B1.
Cable Ties
and Tools

B2.
Cable
Accessories

B3.
Stainless Steel
Cable Ties,
Tools and
Accessories

C1.
Wiring
Duct

C2.
Abrasion
Protection

D1.
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and
Ferrules

E1.
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Hand-Held Thermal Transfer Printing Solutions

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Turn-Tell® Labels	Page E1.6	Nylon Cloth Continuous Tapes	Page E1.5
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PanTher™ LS8E/LS8EQ

P1™ Self-Laminating Label Cassettes for PanTher™ LS8E/LS8EQ Hand-Held Thermal Transfer Printer

- P1™ Label Cassette contains an integrated memory device for automatic formatting, recall of last legend used, and number of labels remaining in the cassette
- Self-laminating adhesive labels for wire/cable identification include a colored print-on area and clear overlamine
- Labels are available in a large range of wire/cable sizes
- Fast loading label cassette includes both label material and ribbon to make changing labels easy
- Temperature range: -50°F to 225°F (-45.6°C to 107°C)



	Print-On Area Color	Width		Length		Print-On Area Height		Min. Cable O.D.		Max. Cable O.D.			Std. Pkg. Qty.	Std. Ctn. Qty.
Part Number		In.	mm	In.	mm	In.	mm	In.	mm	In.	mm	Wire Range		
S050X075VAC	White	0.50	12.7	0.75	19.1	0.25	6.4	0.08	2.0	0.16	4.1	Cat. 6 28 AWG/ 18 – 14 AWG	1	10
S050X125VAC				1.25	31.8	0.38	9.7	0.12	3.1	0.28	7.0	Cat. 3 UTP/ 12 – 10 AWG		
S050X150VAC				1.50	38.1	0.50	12.7	0.16	4.1	0.32	8.1	Cat. 5e UTP/Cat. 6 UTP/Cat. 6A UTP/ Cat. 5e FTP/ 10 – 6 AWG		
S075X075VAC		0.75	19.1	0.75	19.1	0.25	6.4	0.08	2.0	0.16	4.1	Cat. 6 28 AWG/ 18 – 14 AWG		
S075X100VAC				1.00	25.4	0.38	9.7	0.12	3.1	0.28	7.1	Cat. 3 UTP/ 12 – 10 AWG		
S075X125VAC				1.25	31.8									
S075X150VAC		1.50	38.1	0.50	12.7	0.16	4.1	0.32	8.1	Cat. 5e UTP/Cat. 6 UTP/Cat. 6A UTP/ Cat. 5e FTP/ 10 – 6 AWG				
S100X075VAC		1.00	25.4	0.75	19.1	0.25	6.4	0.08	2.0	0.16	4.1	Cat. 6 28 AWG/ 18 – 14 AWG		
S100X125VAC				1.25	31.8	0.38	9.7	0.12	3.1	0.28	7.1	Cat. 3 UTP/ 12 – 10 AWG		
S100X150VAC				1.50	38.1	0.50	12.7	0.16	4.1	0.32	8.1	Cat. 5e UTP/ Cat. 6 UTP/ Cat. 6A UTP/ Cat. 5e FTP/ 10 – 6 AWG		
S100X150VBC	TIA Blue													
S100X150VDC	TIA Green													
S100X150VHC	TIA Red													
S100X150VIC	TIA Yellow													
S100X225VAC	White			2.25	57.2	0.75	19.1	0.24	6.1	0.48	12.2	Cat. 6 FTP/Cat. 6A UTP/Cat. 6A FTP/8 – 4 AWG		
S100X225VAC	TIA Blue													
S100X225VDC	TIA Green													
S100X225VHC	TIA Red													
S100X225VIC	TIA Yellow													
S100X400VAC	White	4.00	101.6	1.00	25.4	0.32	8.1	0.95	24.3	2 – 1 AWG				
S100X650VAC		6.50	165.1	1.50	38.1	0.48	12.2	1.59	40.4	1/0 – 250 AWG				

P1™ Non-Laminated Label Cassettes for PanTher™ LS8E/LS8EQ Hand-Held Thermal Transfer Printers

- P1™ Label Cassette contains an integrated memory device for automatic formatting, recall of last legend used, and number of labels remaining in the cassette
- Fast loading label cassette includes both label material and ribbon to make changing labels easy
- Non-laminated adhesive labels for wire/cable identification
- Temperature range – Vinyl Cloth: -40°F to 170°F (-40°C to 77°C)
- Temperature range – Nylon Cloth: -65°F to 275°F (-54°C to 135°C)



B1.
Cable Ties
and Tools

B2.
Cable
Accessories

B3.
Stainless Steel
Cable Ties,
Tools and
Accessories

P1™ Non-Laminated Continuous Tape Cassettes

Part Number	Color	Material	Height		Length		Std. Pkg. Qty.	Std. Ctn. Qty.
			In.	mm	Ft.	m		
T038X000C1C-BK	White	Nylon	0.38	9.7	18.0	5.5	1	10
T038X000C2C-BK	Yellow				12.5	3.8		
T050X000C1C-BK	White		0.50	12.7	18.0	5.5		
T050X000C2C-BK	Yellow							
T050X000CBC-BK	White	Vinyl	0.75	19.1	18.0	5.5		
T075X000C1C-BK	White	Nylon						
T075X000C2C-BK	Yellow		1.00	25.4	12.5	3.8		
T100X000C1C-BK	White				18.0	5.5		
T100X000C2C-BK	Yellow	Vinyl	1.00	25.4	18.0	5.5		
T100X000CBC-BK	White							

Order number of pieces required in multiples of Standard Package Quantity.

C1.
Wiring
Duct

C2.
Abrasion
Protection

D1.
Terminals
and
Ferrules

P1™ Non-Laminated Die-Cut Cassettes

Part Number	Color	Material	Width		Length		Min. Cable O.D.		Max. Cable O.D.		Wire Range	Labels Per Cassette	Std. Pkg. Qty.	Std. Ctn. Qty.								
			In.	mm	In.	mm	In.	mm	In.	mm												
N050X075C1C	White	Nylon	0.50	12.7	0.75	19.1	0.12	3.1	0.16	4.1	12 – 10 AWG	250	1	10								
N050X075C2C	Yellow	Nylon										125										
N050X075CBC	White	Vinyl			1.25	31.8	0.20	5.1	0.32	8.1		10 – 6 AWG			150							
N050X125C1C	White	Nylon													1.50	38.1	0.24	6.1	0.40	10.2	8 – 2 AWG	75
N050X125C2C	Yellow	Vinyl																				Nylon
N050X150CBC	White	Nylon													125							
N100X075C1C	White	Nylon	1.00	25.4	0.75	19.1	0.12	3.1	0.16	4.1	12 – 10 AWG	250										
N100X075C2C	Yellow	Nylon										125										
N100X075CBC	White	Vinyl			1.25	31.8	0.20	5.1	0.32	8.1		10 – 6 AWG			150							
N100X125C1C	White	Nylon													1.50	38.1	0.24	6.1	0.40	10.2	8 – 2 AWG	75
N100X125C2C	Yellow	Vinyl																				Nylon
N100X125CBC	White	Nylon													75							
N100X150CBC	White	Vinyl			1.75	44.5	0.28	7.1	0.48	12.2		6 – 1 AWG			50							
N100X175CBC	White	Vinyl			1.75	44.5	0.28	7.1	0.48	12.2		6 – 1 AWG			50							

E1.
Labeling
Systems

E2.
Labels

E3.
Permanent
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P1™ Turn-Tell® Label Cassettes for PanTher™ LS8E/LS8EQ Hand-Held Thermal Transfer Printers

- Fast loading P1™ Label Cassette includes both label material and ribbon to make changing labels easy
- Innovative label design allows labels to rotate for visibility from any angle, and for repositioning on the wire/cable to align legends and improve aesthetics
- Labels can be easily installed on existing terminated wires and assemblies without disconnecting the wires/cables
- Temperature range: -40°F to 150°F (-40°C to 65.6°C)



	Print-On Area Color	Width		Length		Print-On Area Height		Min. Cable O.D.		Max. Cable O.D.			Std. Pkg. Qty.	Std. Ctn. Qty.				
Part Number		In.	mm	In.	mm	In.	mm	In.	mm	In.	mm	Wire Range						
R100X075V1C	White	1.00	25.4	0.75	19.1	0.25	6.4	0.12	3.1	0.16	4.1	Cat. 6 28 AWG/ 18 – 14 AWG	1	10				
R100X125VIC				1.25	31.8	0.38	9.7	0.16	4.1	0.22	5.6	Cat. 3 UTP/ 12 – 10 AWG						
R100X150V1C																		
R100X150V2C	TIA Blue														Cat. 5e UTP/ Cat. 6 UTP/ Cat. 6A UTP/ Cat. 5e FTP/ 10 – 6 AWG			
R100X150V3C	TIA Green																	
R100X150V7C	TIA Red																	
R100X150V8T	TIA Yellow																	
R100X225V1C	White																	
R100X225V2C	TIA Blue																	
R100X225V3C	TIA Green					2.25	57.2	0.75	19.1	0.28	7.1	0.39			9.9	Cat. 6 FTP/ Cat. 6 UTP/ Cat. 6A FTP/ 8 – 4 AWG		
R100X225V7C	TIA Red																	
R100X225V8C	TIA Yellow																	

P1™ Marker Plate Label Cassettes for PanTher™ LS8E/LS8EQ Hand-Held Thermal Transfer Printers

- Fast loading P1™ Label Cassette includes both label material and ribbon to make changing labels easy
- Marker plates are designed for use on larger diameter wire/cables and may be applied after all terminations are complete
- Meets requirements for MIL-STD-202G, Method 215K, Solutions A, C and D
- Temperature range: -58°F to 221°F (-50°C to 105°C)



Part Number	Color	Width		Length		Print-On Area Width		Recommended Cable Tie		Std. Pkg. Qty.	Std. Ctn. Qty.
		In.	mm	In.	mm	In.	mm	Vertical	Horizontal		
M300X050Y6C	Yellow	3.00	76.2	0.50	12.7	1.80	45.7	PLT2.5I-C	PLT2.5I-C	1	10
M300X050Y7C	White	3.00	76.2	0.50	12.7	1.80	45.7	PLT2.5I-C	PLT2.5I-C	1	10

Order number of cassettes required.

B1.
Cable Ties
and Tools

B2.
Cable
Accessories

B3.
Stainless Steel
Cable Ties,
Tools and
Accessories

C1.
Wiring
Duct

P1™ Flag Label Cassettes for PanTher™ LS8E/LS8EQ Hand-Held Thermal Transfer Printers

- Fast loading P1™ Label Cassette includes both label material and ribbon to make changing labels easy
- Provides larger labeling area for small cables
- Innovative design allows flag labels to be applied in either adhesive or non-adhesive orientations
- Temperature range: -40°F to 302°F (-40°C to 150°C)



Part Number	Width		Length		Min. Cable O.D.		Max. Wire O.D.		Std. Pkg. Qty.	Std. Ctn. Qty.
	In.	mm	In.	mm	In.	mm	In.	mm		
F100X150AJC	1.00	25.4	1.50	38.1	0.12	3.1	0.20	5.1	1	10

Order number of cassettes required.

C2.
Abrasion
Protection

D1.
Terminals
and
Ferrules

E1.
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Labels

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P1™ Military Grade Die Cut and Continuous Heat Shrink Label Cassettes for PanTher™ LS8E/LS8EQ Thermal Transfer Printers

- P1™ Label Cassette contains an integrated memory device for automatic formatting, recall of last legend used, and number of labels remaining in the cassette
- Fast loading label cassette includes both label material and ribbon to make changing labels easy
- Meets print performance requirements of MIL-STD-883F Method 2015.13, Solutions A, B and D, and MIL-STD-202G Method 215K, Solutions A, C and D
- Meets UL Standard 224 for flammability
- Shrink ratio 3:1
- Each cassette contains a roll of non-adhesive flattened polyolefin
- Temperature Range: -67°F to 275°F (-55°C to 135°C)



Military Grade Die-Cut Heat Shrink Label Cassettes

Part Number	Color	Diameter		Width		Length		Min. Cable O.D.		Max. Cable O.D.		Wire Range	Labels Per Cassette	Std. Pkg. Qty.	Std. Ctn. Qty.
		In.	mm	In.	mm	In.	mm	In.	mm	In.	mm				
H100X025H1C	White	0.13	3.1	0.25	6.4	1.00	25.4	0.04	1.0	0.13	3.3	22 – 18 AWG	100	1	10
H100X025H2C	Yellow														
H100X034H1C	White	0.19	4.7	0.34	8.6			0.06	1.5	0.19	4.8	18 – 12 AWG			
H100X034H2C	Yellow														
H100X044H1C	White	0.25	6.3	0.44	11.2			0.08	2.0	0.25	6.4	16 – 10 AWG			
H100X044H2C	Yellow														
H100X064H1C	White	0.38	9.7	0.64	16.3			0.13	3.3	0.38	9.7	12 – 6 AWG	75		
H100X064H2C	Yellow														
H100X084H1C	White	0.50	12.7	0.84	21.3			0.17	4.3	0.50	12.7	8 – 1 AWG			
H100X084H2C	Yellow														

Military Grade Continuous Heat Shrink Tape Cassettes

Part Number	Color	Diameter		Width		Length		Min. Cable O.D.		Max. Cable O.D.		Wire Range	Labels Per Cassette	Std. Pkg. Qty.	Std. Ctn. Qty.			
		In.	mm	In.	mm	Ft.	m	In.	mm	In.	mm							
H000X025H1C	White	0.13	3.1	0.25	6.4	8.0	2.4	0.04	1.0	0.13	3.3	22 – 18 AWG	100	1	10			
H000X025H2C	Yellow							0.06	1.5	0.19	4.8	18 – 12 AWG						
H000X034H1C	White	0.19	4.7	0.34	8.6			6.0	1.8	0.08	2.0	0.25				6.4	16 – 10 AWG	75
H000X034H2C	Yellow									0.08	2.0	0.25				6.4	12 – 6 AWG	
H000X044H1C	White	0.25	6.3	0.44	11.2	0.13	3.3			0.38	9.7	8 – 1 AWG						
H000X044H2C	Yellow					0.13	3.3			0.38	9.7							
H000X064H1C	White	0.38	9.7	0.64	16.3	0.17	4.3			0.50	12.7	8 – 1 AWG						
H000X064H2C	Yellow																	
H000X084H1C	White	0.50	12.7	0.84	21.3													
H000X084H2C	Yellow																	

P1™ General Component Label Cassettes for PanTher™ LS8E/LS8EQ Hand-Held Thermal Transfer Printers

- P1™ Label Cassette contains an integrated memory device for automatic formatting, recall of last legend used, and number of labels remaining in the cassette
- Fast loading label cassette includes both label material and ribbon to make changing labels easy
- Use for identifying flat surfaces such as components, control panels, circuit boards and general labeling
- Die-cut labels designed to provide maximum aesthetic quality and appearance
- Available in polyester and vinyl cloth materials
- Polyester, Super-Tack Polyester temperature range: -40°F to 302°F (-40°C to 150°C)
- Vinyl Cloth temperature range: -40°F to 170°F (10°C to 77°C)



Part Number	Color	Material	Width		Height		Labels Per Cassette	Std. Pkg. Qty.	Std. Ctn. Qty.	
			In.	mm	In.	mm				
C060X020YJC	White	Polyester	0.60	15.2	0.20	5.1	750	1	10	
C075X025YLC	Yellow		0.75	19.1	0.25	6.4	500			
C100X025YJC	White		1.00	25.4						0.50
C100X025YLC	Yellow				500					
C100X050CBC	White	Vinyl Cloth				Polyester	0.50			12.7
C100X050YJC										
C100X050YMC	Silver									
C100X050YPC	White	Super-Tack Polyester	1.50	38.1	0.75	19.1	250			
C150X075YJC		Polyester					250			
C150X075YPC		Super-Tack Polyester	1.89	48.0	0.47	12.0	175			
C189X047FNC		Tamper-Resistant Polyolefin								
C200X050CBC		Vinyl Cloth	2.00	50.8	0.50	12.7	50			
C200X050YJC		Polyester					200			
C200X050YPC		Super-Tack Polyester			150					
C200X100YJC		Polyester			1.00	25.4	200			
C200X100YMC	Silver		150							
C200X100YPC	White	Super-Tack Polyester								

B1.
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and Tools

B2.
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Cable Ties,
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P1™ Continuous Tape Cassettes for PanTher™ LS8E/LS8EQ and Hand-Held Thermal Transfer Printers

- P1™ Label Cassette contains an integrated memory device for automatic formatting, recall of last legend used, and number of labels remaining in the cassette
- Fast loading label cassette includes both label material and ribbon to make changing labels easy
- Print custom pipe markers, voltage markers, signs and bin marker labels on demand
- Available in a variety of colors, widths, and adhesive materials including continuous polyolefin, polyester, vinyl, and reflective
- For flat label applications only
- Polyolefin Temperature Range: -40°F to 180°F (-40°C to 82°C)
- Polyester Temperature Range: -40°F to 302°F (-40°C to 150°C)
- Vinyl Temperature Range: -50°F to 225°F (-45.6°C to 107°C)
- Reflective Temperature Range: -40°F to 180°F (-40°C to 82°C)



Part Number	Color	Material	Height		Length		Std. Pkg. Qty.	Std. Ctn. Qty
			In.	mm	Ft.	m		
T019X000FJC-BK	Black on White	Polyolefin	0.19	4.8	25.0	7.6	1	10
T024X000FJC-BK			0.27	6.1				
T024X000VPC-BK		Vinyl	0.24	6.1				
T024X000VYC-WH	White on Black							
T024X000YKC-BK	Black on Clear	Polyester	0.31	7.9				
T031X000FJC-BK	Black on White	Polyolefin						
T038X000FJC-BK								
T038X000VPC-BK		Vinyl	0.38	9.7				
T038X000VQC-BK	Black on Blue							
T038X000VQC-WH	White on Blue							
T038X000VSC-BK	Black on Green							
T038X000VSC-WH	White on Green							
T038X000VUC-BK	Black on Orange							
T038X000VWC-BK	Black on Red							
T038X000VWC-WH	White on Red							
T038X000VXC-BK	Black on Yellow							
T038X000VYC-WH	White on Black							
T038X000YKC-BK	Black on Clear	Polyester	0.50	12.7				
T050X000VPC-BK	Black on White	Vinyl						
T050X000VPC-RD	Red on White							
T050X000VQC-BK	Black on Blue							
T050X000VQC-WH	White on Blue							
T050X000VSC-BK	Black on Green							
T050X000VSC-WH	White on Green							
T050X000VUC-BK	Black on Orange							
T050X000VWC-BK	Black on Red							
T050X000VWC-WH	White on Red							
T050X000VXC-BK	Black on Yellow							
T050X000VYC-WH	White on Black	Polyester						
T050X000YKC-BK	Black on Clear							
T050X000YKC-WH	White on Clear							

P1™ Continuous Tape Cassettes for PanTher™ LS8E/LS8EQ and Hand-Held Thermal Transfer Printers (continued)

Part Number	Color	Material	Height		Length		Std. Pkg. Qty.	Std. Ctn. Qty
			In.	mm	Ft.	m		
T075X000VPC-BK	Black on White	Vinyl	0.75	19.1	25.0	7.6	1	10
T075X000VQX-BK	Black on Blue							
T075X000VQC-WH	White on Blue							
T075X000VSC-BK	Black on Green							
T075X000VSC-WH	White on Green							
T075X000VUC-BK	Black on Orange							
T075X000VWC-BK	Black on Red							
T075X000VWC-WH	White on Red							
T075X000VXC-BK	Black on Yellow							
T075X000VYC-WH	White on Black							
T075X000YKC-BK	Black on Clear	Polyester	1.00	25.4	25.0	7.6	1	10
T100X000RPC-BK	Black on White	Reflective						
T100X000RUC-BK	Black on Orange							
T100X000RXC-BK	Black on Yellow							
T100X000VPC-BK	Black on White	Vinyl						
T100X000VPC-RD	Red on White							
T100X000VQC-BK	Black on Blue							
T100X000VQC-WH	White on Blue							
T100X000VSC-BK	Black on Green							
T100X000VWC-WH	White on Green							
T100X000VUC-OR	Black on Orange							
T100X000VWC-BK	Black on Red							
T100X000VWC-WH	White on Red							
T100X000VXC-BK	Black on Yellow							
T100X000VYC-WH	White on Black							
T100X000YKC-BK	Black on Clear	Polyester						
T100X000YKC-WH	White on Clear							

TDP43ME/E Thermal Transfer Desktop Printer and Accessories

- Compact, lightweight design enables use in office or remote locations
- 300 dpi thermal transfer printer creates crisp, clear legends with superior legibility
- Up to 4.00 inches per second print speed for fast label production
- Use to print a wide variety of self-laminating labels, component labels, non-laminated labels, heat shrink labels, marker plates and continuous tapes up to 4" wide
- Easy-Mark™ Labeling Software and hybrid ribbon included with printer
- UL 60950 listed, File # E165747



Part Number	Part Description	Std. Pkg. Qty.
TDP43ME/E	300 dpi printer; includes printer, Panduit® Easy-Mark™ Labeling Software, RMEH4BL black hybrid ribbon, AC power adapter with US power cord, USB cable, user manual, quick start card, and driver disk; for use in North America.	
TDP43ME/E-KIT	TDP43ME/E printer kit. Includes: printer, Panduit® Easy-Mark™ Labeling Software, RMEH4BL black hybrid ribbon, AC power adapter with US power cord, USB cable, user manual, quick start card, TDP43ME-RS Roll Stand, TDP43ME-CASE, one roll of S100X150VATY labels, and driver disk; for use in North America.	1
TDP43ME/E-RS	External label roll stand – used to rear feed labels that are supplied on 3.00" cores.	1
TDP43ME/E-AC	Replacement AC power adapter with power cord (US cord only).	1
TDP43ME/E-CASE	Hard-side carrying case accommodates printer, AC power adapter, ribbons, printer cable, external roll stand, labels, and tools.	1
TDP43ME/E-CUTTER	Optional power/automatic cutter for TDP43ME/E Thermal Transfer Desktop Printer; easy to install for automatic cutting of labels.	1
TDP43ME/E-SPINDLE	Replacement ribbon spindle for TDP43ME/E Thermal Transfer Desktop Printer, package of two spools.	1
PTR-CLN	Printer cleaning kit – contains bottle of cleaning solution with MSDS, cleaning pen, swabs, alcohol wipes and cleaning instructions.	1

Ribbons for Use with the TDP43ME/E Thermal Transfer Desktop Printer

- **Hybrid** – Recommended for use with self-laminating, heat shrink, component and non-laminated labels
- **Resin** – Recommended for use with component labels, marker plates, and continuous tape



Part Number	Part Description	Width		Length		Std. Pkg. Qty.
		In.	mm	Ft.	m	
RMEH4BL*	Black hybrid thermal transfer ribbon. Use with heat shrink, self-laminating, Turn-Tell®, tan polyimide labels, and vinyl cloth labels.	4.25	108.0	300.0	91.4	1
RMER4BL*	Black resin thermal transfer ribbon. Use with polyester labels, continuous vinyl tape, marker plates, and raised panel labels.					
RMER4BU	Blue resin thermal transfer ribbon. Use with polyester labels, continuous vinyl tape, marker plates, and raised panel labels.					
RMER4GR	Green resin thermal transfer ribbon. Use with polyester labels, continuous vinyl tape, marker plates, and raised panel labels.					
RMER4RD	Red resin thermal transfer ribbon. Use with polyester labels, continuous vinyl tape, marker plates, and raised panel labels.					
RMER4WH*	White resin thermal transfer ribbon. Use with polyester labels, continuous vinyl tape, marker plates, and raised panel labels.					
RMER4BL-A	Black resin thermal transfer ribbon. Use with high-temperature marker plates.					
RMER4BL-C	Black resin thermal transfer ribbon. Use with fluid-resistant heat shrink labels and white polyimide labels.					

Order number of ribbons required in multiples of Standard Package Quantity.

*For 2.5" wide ribbons, replace 4 in part number with 2. For example, the part number of a 2.5" wide black hybrid thermal transfer ribbon is RMEH2BL.

TDP43HE/E and TDP46HE/E Thermal Transfer Desktop Printers

- Convenient, easy setup; quickly begin producing labels
- Durable, clear communication through superior legibility
- Print small, fine characters and high-quality images and bar codes
- Allow continuous use in construction, industrial, and harsh environments
- Reduce time required to switch between label styles
- Fast label production without sacrificing print quality
- Easy-Mark™ Labeling Software included with printer
- Up to 8 inches per second print speed
- Connect quickly and easily to PC, and offers connectivity flexibility to print by USB, parallel, Ethernet, and serial
- UL 6050 listed, File # E165747



Part Number	Part Description	Std. Pkg. Qty.
TDP43HE/E	300 dpi printer; includes printer, Panduit® Easy-Mark™ Labeling Software, RHEH4BL black hybrid ribbon, USB cable, user manual, quick start card, driver disk and US power cord; for use in North America.	1
TDP46HE/E	600 dpi printer; includes printer, Panduit® Easy-Mark™ Labeling Software, RHEH4BL black hybrid ribbon, USB cable, user manual, quick start card, driver disk, and US power cord; for use in North America.	1

Ribbons for use with the TDP43HE/E and TDP46HE/E Thermal Transfer Desktop Printers

- **Hybrid** – Recommended for use with self-laminating, heat shrink, component and non-laminated labels
- **Resin** – Recommended for use with component labels, marker plates, and continuous tape



Part Number	Part Description	Width		Length		Std. Pkg. Qty.
		In.	mm	Ft.	m	
RHEH4BL	Black hybrid thermal transfer ribbon. Use with heat shrink, self-laminating, Turn-Tell®, and vinyl cloth and tan polyimide labels.	4.33	110.0	1181.0	363.0	1
RHER4BL	Black resin thermal transfer ribbon. Use with polyester labels, continuous vinyl tape, marker plates, and raised panel labels.					
RHER4WH	White resin thermal transfer ribbon. Use with polyester labels, continuous vinyl tape, marker plates, and raised panel labels.	4.50	114.3			
RHER4BL-A	Black resin thermal transfer ribbon. Use with high-temperature marker plates.	4.33	110.0	1345.0	410.0	
RHER4BL-C	Black resin thermal transfer ribbon. Use with fluid resistant heat shrink markers and white polyimide labels.					
RHER4BL-E	Black resin thermal transfer ribbon. Use with standard marker plates and component labels for extra durability for harsh environments.					

Order number of ribbons required.

Notes

Labeling Software

Panduit® labeling software is custom designed to address your requirements for wire/cable labeling, component identification, network administration, and safety and facility identification. From control panel wire identification, terminal block and facility pipe marking to patch panel, faceplate and wire/cable marking, Panduit software is the solution for your on-demand identification requirements.



- **Easy-Mark Plus™** is a label design and printing software for all types of identification customers and applications.
- **CAD-Connect™** Labeling Software generates labels quickly and easily, directly from an electronic CAD file

Panduit user-friendly software packages meet the unique requirements of your applications.

A.
System
Overview

B1.
Cable Ties
and Tools

B2.
Cable
Accessories

B3.
Stainless Steel
Cable Ties,
Tools and
Accessories

C1.
Wiring
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C2.
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D1.
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F.
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If you are missing information from this catalog, please refer to the Full line catalog posted on panduit.com.

Easy-Mark Plus™ Labeling Software

- Quickly and easily create all types of identification, including specialized and custom designed labels
- Reduce time for labeling up to 75% with intuitive user interface, simple label selection, realistic representation of label format, easy text entry, enhanced WYSIWYG user interface and QR code functionality
- Includes powerful label design tools such as automatic serialization, data import from Excel, barcodes, and symbols library
- Compatible with existing Easy-Mark and Pan-Mark label files
- Updates available at www.panduit.com

• System Requirements:

300 MB hard drive space and 2 GB Memory
 WINDOWS^ XP, Vista, 7, 8, 8.1, or 10
 Microsoft.NET Framework 4.0 or higher
 Keyboard; Mouse or compatible pointing device
 Optical Disc Drive or USB Port
 32 or 64 bit operating systems
 *Additional Requirements for Server Version Only:
 Windows Server 2008 SP2, 2008 R2, 2012, or 2012 R2, 1 GB hard drive space, and 3 GB memory



Part Number	Part Description	Std. Pkg. Qty.	Std. Ctn. Qty.
EMPLUS-CD	Easy-Mark Plus™ Labeling Software, CD-ROM.	1	10
EMPLUS-DL	Easy-Mark Plus™ Labeling Software, online download.	1	10
EMPLUS-2GO	Easy-Mark Plus™ Portable Application, USB Flash Drive.	1	10
EMPLUS-SERVER	Easy-Mark Plus™ Labeling Software, networkable server based version.	1	10

[^]Windows is a registered trademark of Microsoft Corporation in the United States and/or other countries.

CAD-Connect™ Labeling Software

- Facilitates quick and easy organization of identifiers from CAD for printing within Easy-Mark™ Plus Labeling Software
- Easily captures and organized CAD data for future use and documentation
- Saves time and reduces errors by utilizing identifiers previously created in CAD files to eliminate manual entry of data into labeling software
- Compatible with full versions of AutoCAD* 2002 to 2016 or Visio^ version 2002 or newer
- Exports to alternative formats such as Excel^ (XLS) or Text (CSV) files for future use and documentation
- Upgrades available at www.panduit.com

• System Requirements:

64 MB hard drive space and 64 MB RAM (256 MB RAM recommended)
 Windows^2000, XP, Vista, 7, 8, or 10
 Mouse or compatible pointing device
 Microsoft.NET Framework 2.0 or higher
 CD-ROM Drive



Part Number	Part Description	Std. Pkg. Qty.	Std. Ctn. Qty.
PROG-CCCD	CAD-Connect™ Labeling Software, including Easy-Mark™ Plus Labeling Software, supplied on CD-ROM.	1	10

*AutoCAD is a registered trademark of Autodesk, Inc.

^Visio, Windows, and Excel are registered trademarks of Microsoft Corporation in the United States and/or other countries.

Labels: Thermal Transfer, Laser, and Ink Jet

Panduit® provides a full line of on demand printable labels designed to meet all of your identification needs.



- Thermal transfer labels supplied on rolls offer crisp, clear legends with superior legibility and can be printed on Panduit thermal transfer desktop printers or commercially available models
- Laser/ink jet labels supplied on 8.50" x 11.00" sheets and can be printed in commercially available laser and ink jet printers not sold by Panduit

Panduit labeling solutions meet customer needs at the lowest total installed cost.

If you are missing information from this catalog, please refer to the Full line catalog posted on panduit.com.

Thermal Transfer Turn-Tell® Labels **PATENTED**

- Innovative label design allows labels to rotate for visibility from any angle, and for repositioning on the wire/cable to align legends and improve aesthetics
- Labels can be easily installed on existing terminated wires and assemblies without disconnecting the wires/cables
- Use thermal transfer hybrid ribbon
- Temperature range: -40°F to 150°F (-40°C to 65.6°C)



	Print-On Area Color	Width		Length		Print-On Area Height		Min. Cable O.D.		Max. Cable O.D.			Labels Per Row	Labels Per Pkg.					
Part Number		In.	mm	In.	mm	In.	mm	In.	mm	In.	mm	Wire Range							
R050X075V1T	White	0.50	12.7	0.75	19.1	0.25	6.4	0.12	3.1	0.16	4.0	Cat. 6 28 AWG/ 18 – 14 AWG	8	5000					
R050X125V1T				1.25	31.8	0.38	9.7	0.16	4.1	0.22	5.6	Cat. 3 UTP/12 – 10 AWG							
R050X150V1T				1.50	38.1	0.50	12.7	0.22	5.6	0.28	7.1	Cat. 5e UTP/Cat. 6 UTP/ Cat. 6A UTP/Cat. 5e FTP/10 – 6 AWG							
R100X075V1T		TIA Blue TIA Green TIA Gray TIA Red TIA Yellow White TIA Blue TIA Green TIA Gray TIA Red TIA Yellow	1.00	25.4	0.75	19.1	0.25	6.4	0.12	3.1	0.16	4.0	Cat. 6 28 AWG/ 18 – 14 AWG	4	2500				
R100X125V1T	1.25				31.8	0.38	9.7	0.16	4.1	0.22	5.6	Cat. 3 UTP/12 – 10 AWG							
R100X150V1T	1.50				38.1	0.50	12.7	0.22	5.6	0.28	7.1	Cat. 5e UTP/Cat. 6 UTP/ Cat. 6A UTP							
R100X150V2T																			
R100X150V3T																			
R100X150V4T																			
R100X150V7T	2.25				57.2	0.75	19.1	0.28	7.1	0.39	9.9	Cat. 6 FTP/Cat. 6A UTP/ Cat. 6A FTP/8 – 4 AWG							
R100X150V8T																			
R100X225V1T																			
R100X225V2T																			
R100X225V3T	4.00				101.6	1.00	25.4	0.39	9.9	0.95	24.1	2 – 1 AWG							
R100X225V4T																			
R100X225V7T																			
R100X225V8T																			
R100X400V1T	White				1.50	38.1	1.50	38.1	0.50	12.7	0.22	5.6	0.28			7.1	Cat. 5e UTP/Cat. 6 UTP/ Cat. 6A UTP/CAT. 5e FTP/10 – 6 AWG	2	1000
R150X150V1T																			
R200X150V1T		2.00	50.8	2.25	57.2	0.75	19.1	0.28	7.1	0.39	9.9	Cat. 6 FTP/Cat. 6A UTP/ Cat. 6A FTP/8 – 4 AWG	4						
R200X225V1T																			
R200X400V1T				4.00	101.6	1.00	25.4	0.39	9.9	0.95	24.1	2 – 1 AWG	2						

Labels are roll mounted on 3.00" cores; when using the TDP43ME printer and 3.00" cores, the roll stand (TDP43ME-RS) is required.

Thermal Transfer Self-Laminating Labels (continued)

Part Number	Print-On Area Color	Width		Length		Print-On Area Height		Min. Cable O.D.		Max. Cable O.D.		Wire Range	Labels Per Row	Std. Pkg. Qty.			
		In.	mm	In.	mm	In.	mm	In.	mm	In.	mm						
S100X225VA1Y	White	1.00	25.4	2.25	57.2	0.75	19.1	0.24	6.1	0.48	12.1	Cat. 6 FTP/ Cat. 6A UTP/ Cat. 6A FTP/ 8 – 4 AWG	4	5000			
S100X225VATY*																	
S100X225VBTY*	TIA Blue																
S100X225VCTY*	TIA Brown																
S100X225VDTY*	TIA Green																
S100X225VETY*	TIA Gray																
S100X225VFTY*	TIA Orange																
S100X225VGTY*	TIA Purple																
S100X225VHTY*	TIA Red																
S100X225VITY*	TIA Yellow																
S100X225V0TY*	Black																
S100X225V9TY*	Gold																
S100X250VA1Y	White	1.50	38.1	2.50	63.5	1.00	25.4	0.32	8.1	0.48	12.1	6 – 2 AWG	2	1500			
S100X250VATY*										2 – 1 AWG		5000					
S100X400VA1Y												1000					
S100X400VATY*				4.00	101.6	1.50	38.1	0.48	12.1	1.59	40.4	1/0 – 250 MCM		2500			
S100X650VA1Y														250			
S100X650VATY*														1000			
S150X150VATY*				1.50	38.1	1.50	38.1	0.50	12.7	0.16	4.0	0.32		8.1	Cat. 5e UTP/ Cat. 6 UTP/ Cat. 6A UTP/ Cat. 5e FTP/ 10 – 6 AWG	2	5000
S150X225VATY*															Cat. 6 FTP/ Cat. 6A UTP/ Cat. 6A FTP/ 8 – 4 AWG		
S150X400VATY*															2 – 1 AWG		
S200X150VATY*		2.00	50.8	1.50	38.1	0.50	12.7	0.16	4.0	0.32	8.1	Cat. 5e UTP/ Cat. 6 UTP/ Cat. 6A UTP/ Cat. 5e FTP/ 10 – 6 AWG	2	5000			
S200X225VA1Y												Cat. 6 FTP/ Cat. 6A UTP/ Cat. 6A FTP/ 8 – 4 AWG			500		
S200X225VATY*															1000		
S200X250VATY*				2.50	63.5	1.00	25.4	0.32	8.1	0.48	12.1	6 – 2 AWG		500			
S200X400VA1Y										0.95	24.3	2 – 1 AWG		1000			
S200X400VATY*														250			
S200X650VA1Y				6.50	165.1	1.50	38.1	0.48	12.1	1.59	40.4	1/0 – 250 MCM		1000			
S200X650VATY*														1000			

Order number of labels required in multiples of Standard Package Quantity.

*Labels are roll mounted on 3.00" cores; when using the TDP43ME printer and 3.00" cores, the roll stand (TDP43ME-RS) is required.

Thermal Transfer Self-Laminating Polyvinylidene Fluoride (PVDF) Labels

- Self-extinguishing material
- Recommended alternative to Tedlar*
- Use with thermal transfer hybrid ribbon
- Labels are sized specifically for wire and cable applications
- Temperature range: -65°F to 275°F (-53.9°C to 135°C)



Part Number	Print-On Area Color	Width		Length		Print-On Area Height		Min. Cable O.D.		Max. Cable O.D.		Wire Range	Labels Per Row	Std. Pkg. Qty.
		In.	mm	In.	mm	In.	mm	In.	mm	In.	mm			
S050X150T1T	White	0.50	12.7	1.50	38.1	0.50	12.7	0.16	4.0	0.32	8.1	Cat. 5e UTP/ Cat. 6 UTP/ Cat. 6A UTP/ Cat. 5e FTP/ 10 – 6 AWG	8	5000
S075X125T1T	White	0.75	19.1	1.25	31.8	0.38	9.7	0.12	3.1	0.28	7.0	Cat. 3 UTP/ 12 – 10 AWG	5	5000
S100X075T1T	White	0.75	19.1	0.75	19.1	0.25	6.4	0.08	2.0	0.16	4.0	Cat. 6 28 AWG/ 18 – 14 AWG	4	2500
S100X125T1T	White	1.00	25.4	1.25	31.8	0.38	9.7	0.12	3.1	0.28	7.0	12 – 10 AWG	4	2500
S100X150T1T	White	1.00	25.4	1.50	38.1	0.50	12.7	0.16	4.0	0.28	7.1	Cat. 5e UTP/ Cat. 6 UTP/ Cat. 6A UTP/ Cat. 5e FTP/ 10 – 6 AWG	4	2500
S100X225T1T	White	1.00	25.4	2.25	57.2	0.75	19.1	0.24	6.1	0.48	12.1	Cat. 6 FTP/ Cat. 6A UTP/ Cat. 6A FTP/ 8 – 4 AWG	4	1500
S100X400T1T	White	1.00	25.4	4.00	101.6	1.00	25.4	0.32	8.1	0.95	24.3	2 – 1 AWG	4	2500
S200X400T1T	White	2.00	50.8	4.00	101.6	1.00	25.4	0.32	8.1	0.95	24.3	2 – 1 AWG	2	500

Order number of labels required in multiples of Standard Package Quantity.
*Tedlar is a registered trademark of E.I. du Pont de Nemours and Company.

Thermal Transfer Non-Laminated Vinyl Cloth Labels

- Labels offer crisp, clear legends with superior legibility
- Use as a wrap-around label or flag style marker for wire/cable labeling
- Works well on Teflon™ coated wires*
- Use thermal transfer hybrid ribbon
- Temperature range: -40°F to 170°F (-40°C to 77°C)



		Width		Length		Min. Cable O.D.		Max. Cable O.D.			Labels Per Row	Std. Pkg. Qty.
Part Number	Color	In.	mm	In.	mm	In.	mm	In.	mm	Wire Range		
N025X075CBT	White	0.25	6.4	0.75	19.1	0.12	3.1	0.16	4.1	12 – 10 AWG	7	10000
N025X125CBT				1.25	31.8	0.20	5.1	0.32	8.1	10 – 6 AWG		
N025X150CBT				1.50	38.1	0.24	6.1	0.40	10.2	8 – 2 AWG		2500
N025X175CBT				1.75	44.5	0.28	7.1	0.48	12.2	6 – 1 AWG		
N050X075CBT		0.50	12.7	0.75	19.1	0.12	3.1	0.16	4.1	12 – 10 AWG		10000
N050X100CBT				1.00	25.4	0.16	4.1	0.24	6.1	10 – 8 AWG		
N050X125CBT				1.25	31.8	0.20	5.1	0.32	8.1	10 – 6 AWG		
N050X150CBT				1.50	38.1	0.24	6.1	0.40	10.2	8 – 2 AWG		
N050X175CBT		1.75	44.5	0.28	7.1	0.48	12.2	6 – 1 AWG	2500			
N100X075CBT		1.00	25.4	0.75	19.1	0.12	3.1	0.16	4.1	12 – 10 AWG	3	
N100X125CBT				1.25	31.8	0.20	4.1	0.32	8.1	10 – 6 AWG		5000
N100X150CBT				1.50	38.1	0.24	6.1	0.40	10.2	8 – 2 AWG		
N100X175CBT				1.75	44.5	0.28	7.1	0.48	12.2	6 – 1 AWG		2500
N150X075CBT		1.50	38.1	0.75	19.1	0.12	3.1	0.16	4.1	12 – 10 AWG	1	5000

Labels are roll mounted on 3.00" cores; when using the TDP43ME printer and 3.00" cores, the roll stand (TDP43ME-RS) is required.

*Teflon is a registered trademark of E.I. du Pont de Nemours and Company.

Thermal Transfer Non-Laminated Nylon Cloth Labels

- Offer crisp, clear legends with superior legibility
- Used in flat applications and in a wrap format for wire/cable marking
- Use thermal transfer resin ribbon
- Temperature range: -65°F to 275°F (-54°C to 135°C)



Part Number	Color	Width		Length		Min. Cable O.D.		Max. Cable O.D.		Wire Range	Labels Per Row	Std. Pkg. Qty.
		In.	mm	In.	mm	In.	mm	In.	mm			
N050X075C1T	White	0.50	12.7	0.75	19.1	0.12	3.1	0.16	4.1	12 – 10 AWG	5	10000
N050X075C2T	Yellow			1.25	31.8	0.20	5.1	0.32	8.1	10 – 6 AWG		
N050X125C1T	White			1.50	38.1	0.24	6.1	0.40	10.5	8 – 2 AWG		
N050X125C2T	Yellow											5000
N050X150C1T	White											
N050X150C2T	Yellow											
N100X075C1T	White	1.00	25.4	0.75	19.1	0.12	3.1	0.16	4.1	12 – 10 AWG	3	10000
N100X075C2T	Yellow			1.25	31.8	0.20	5.1	0.32	8.1	10 – 6 AWG		
N100X125C1T	White			1.50	38.1	0.24	6.1	0.40	10.2	8 – 2 AWG		
N100X125C2T	Yellow											5000
N100X150C1T	White											
N100X150C2T	Yellow											

Order number of labels required in multiples of Standard Package Quantity.

Labels are roll mounted on 3.00" cores; when using the TDP43ME Printer and 3.00" cores, the roll stand (TDP43ME-RS) is required.

B1.
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B2.
Cable
Accessories

B3.
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Cable Ties,
Tools and
Accessories

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Thermal Transfer Halogen-Free Flame-Retardant Marker Plates

- Used to identify wires, cables, equipment, and many other applications
- Offer crisp, clear legend with superior legibility and engineered to withstand high temperatures, harsh solvents, oils, and chemicals without over-lamination
- Compatible with Intermediate Cross Section cable ties
- Use thermal transfer resin ribbon
- Temperature range: -40°F to 193°F (-40°C to 90°C)



Part Number	Color	Width		Height		Print-On Area				Labels Per Roll	Std. Pkg. Qty. (Roll)
						Width		Height			
		In.	mm	In.	mm	In.	mm	In.	mm		
M200X042UPT	White	2.00	50.8	0.42	10.7	0.42	10.7	1.30	33.0	500	1
M200X042UPT-B	White	2.00	50.8	0.42	10.7	0.42	10.7	1.30	33.0	2000	1
M200X080UPT	White	2.00	50.8	0.80	20.3	0.80	20.3	1.30	33.0	500	1
M200X080UPT-B	White	2.00	50.8	0.80	20.3	0.80	20.3	1.30	33.0	2000	1

Order number of marker plates required in multiples of Standard Package Quantity.
Labels are roll mounted on 3.00" cores; when using the TDP43ME printer and 3.00" cores, the roll stand (TDP43ME-RS) is required.

Thermal Transfer High-Temperature Flame-Retardant Marker Plates

- Used for identification markers in (Class 1E) harsh environments
- Compatible with Intermediate Cross Section cable ties
- Use thermal transfer RMER4BL-A resin ribbon
- Temperature range: -67°F to 275°F (-55°C to 135°C)



Part Number	Color	Width		Height		Print-On Area				Labels Per Roll	Std. Pkg. Qty. (Roll)
						Width		Height			
		In.	mm	In.	mm	In.	mm	In.	mm		
M200X042FQT	White	2.00	50.8	0.42	10.7	0.42	10.7	1.22	31.0	500	1
M200X042FQT-B	White	2.00	50.8	0.42	10.7	0.42	10.7	1.22	31.0	2000	1
M200X080FQT	White	2.00	50.8	0.80	20.3	0.80	20.3	1.22	31.0	250	1
M200X080FQT-B	White	2.00	50.8	0.80	20.3	0.80	20.3	1.22	31.0	1000	1

Order number of marker plates required in multiples of Standard Package Quantity.
Labels are roll mounted on 3.00" cores; when using the TDP43ME printer and 3.00" cores, the roll stand (TDP43ME-RS) is required.

Thermal Transfer Standard Marker Plates

- Non-adhesive and halogen-free; used to identify wires, cables, equipment, and many other applications
- Attachable in horizontal or vertical orientation
- Use thermal transfer resin ribbon
- Recommended cable ties: Standard Marker Plates – Intermediate Cross Section for 0.5" length and Standard Cross Section for 1" length
- Temperature range: -58°F to 221°F (-50°C to 105°C)



		Width		Height		Print-On Area Width		Labels Per Roll	Std. Pkg. Qty. (Roll)
Part Number	Color	In.	mm	In.	mm	In.	mm		
M200X050Y6T	TIA Yellow	2.00	50.8	0.50	12.7	1.07	27.3	500	1
M200X050Y7T	White								
M200X050ACT	TIA Blue								
M200X050AET	TIA Green								
M200X050AFT	TIA Gray								
M200X050AGT	TIA Orange								
M200X050AIT	TIA Red								
M200X100Y6T	TIA Yellow			1.00	25.4	0.80	20.3	2000	
M200X100Y6T-B								500	
M200X100Y7T	White							2000	
M200X100Y7T-B									
M200X100ACT	TIA Blue								
M200X100AET	TIA Green								
M200X100AFT	TIA Gray								
M200X100AGT	TIA Orange								
M200X100AIT	TIA Red								
M300X050Y6T	TIA Yellow	3.00	76.2	0.50	12.7	2.07	52.6	500	
M300X050Y7T	White								
M300X050ACT	TIA Blue								
M300X050AET	TIA Green								
M300X050AFT	TIA Gray								
M300X050AGT	TIA Orange								
M300X050AIT	TIA Red								
M300X100Y6T	TIA Yellow			1.00	25.4	1.80	45.7		
M300X100Y7T	White								
M300X100ACT	TIA Blue								
M300X100AET	TIA Green								
M300X100AFT	TIA Gray								
M300X100AGT	TIA Orange								
M300X100AIT	TIA Red								

Order number of marker plates required in multiples of Standard Package Quantity.

Thermal Transfer Military Grade Single-Sided Heat Shrink Labels

- Permanent, one-piece, heat shrink sleeve designed to provide clear, durable identification of wires and cables
- Meet UL Standard 224 with a VW-1 rating for flammability and AMS-DTL-23053/5C (Class 1 and Class 3)
- Meet SAE-AS81531, MIL-STD-883F Method 2015.13, Solutions A, B, and D, and MIL-STD-202G Method 215K, Solutions A, C, and D when printed with resin and hybrid thermal transfer ribbons
- Shrink ratio 3:1
- Tested for use as an identification marker in (Class 1E) harsh environments
- Use thermal transfer hybrid ribbon or white resin ribbon
- Temperature range: -67°F to 275°F (-55°C to 135°C)
- UL224 recognized, File # E205133; CSA certified, C22.2 No. 198.1.06, File # 256205



Part Number	Part Number	Diameter		Width		Height		Min. Cable O.D.		Max Cable O.D.		Wire Range	Labels Per Row	Labels Per Roll	Std. Pkg. Qty. (Roll)
		In.	mm	In.	mm	In.	mm	In.	mm	In.	mm				
H050X025H1T*+	H050X025H2T	0.13	3.1	0.50	12.7	0.25	6.4	0.04	1.0	0.13	3.3	22 – 18 AWG	4	2000	1
H075X025H1T*+	H075X025H2T			0.75	19.1								2	1000	
H100X025H1T*+	H100X025H2T			1.00	25.4								1	500	
H150X025H1T*+	H150X025H2T			1.50	38.1								1	500	
H200X025H1T*+	H200X025H2T			2.00	50.8								1	500	
H050X034H1T*+	H050X034H2T	0.19	4.7	0.50	12.7	0.34	8.6	0.06	1.5	0.19	4.8	18 – 12 AWG	4	2000	
H075X034H1T*+	H075X034H2T			0.75	19.1								2	1000	
H100X034H1T*+	H100X034H2T			1.00	25.4								1	500	
H150X034H1T*+	H150X034H2T			1.50	38.1								1	500	
H200X034H1T*+	H200X034H2T			2.00	50.8								1	500	
H050X044H1T*+	H050X044H2T	0.25	6.3	0.50	12.7	0.44	11.2	0.08	2.0	0.25	6.4	16 – 10 AWG	4	2000	
H075X044H1T*+	H075X044H2T			0.75	19.1								2	1000	
H100X044H1T*+	H100X044H2T			1.00	25.4								1	500	
H150X044H1T*+	H150X044H2T			1.50	38.1								1	500	
H200X044H1T*+	H200X044H2T			2.00	50.8								1	500	
H050X064H1T*+	H050X064H2T	0.38	9.7	0.50	12.7	0.64	16.3	0.13	3.3	0.38	9.7	12 – 6 AWG	4	2000	
H100X064H1T*+	H100X064H2T			1.00	25.4								2	1000	
H200X064H1T*+	H200X064H2T			2.00	50.8								1	500	
H050X084H1T	—			0.50	12.7								4	2000	
H100X084H1T+	H100X084H2T			1.00	25.4								2	1000	
H200X084H1T+	H200X084H2T	0.50	12.7	1.00	25.4	0.84	21.3	0.17	4.3	0.50	12.7	8 – 1 AWG	1	500	
H050X165H1T	—			0.50	12.7								4	1000	
H100X165H1T+	H100X165H2T			1.00	25.4								2	500	
H200X165H1T+	H200X165H2T	1.00	25.4	1.00	25.4	1.65	41.9	0.33	8.4	1.00	25.4	4 AWG – 500 MCM	1	250	
H200X240H1T	H200X240H2T			2.00	50.8								1	100	

Order number of labels required in multiples of Standard Package Quantity.
 *Available in Bulk packages (5 times Labels Per Roll), add -B to end of part number
 +Available in two additional colors, replace suffix H1T with (H3T) Black or (H4T) Red

PATENTED

Thermal Transfer Military Grade Two-Sided Heat Shrink Labels

- Permanent, one-piece, heat shrink sleeve designed to provide clear, durable identification of wires and cables
- Can be printed on both sides for improved visibility
- Meets the material requirements and physical properties of AMS-DTL-23053/5C (Class 1 and Class 3) and UL standard 224 with a VW-1 rating
- Meet SAE-AS81531, MIL-STD-883F Method 2015.13, Solutions A, B and D, and MIL-STD-202G Method 215K, Solutions A,C and D when printed using resin or hybrid thermal transfer ribbons
- Shrink ratio 3:1
- Tested as an identification marker for use in (Class 1E) harsh environments
- Use thermal transfer hybrid ribbon
- Temperature range: -67°F to 275°F (-55°C to 135°C)
- UL224 recognized, File # E205133; CSA certified, C22.2 No. 198.1-06, File # 256205



B1.
Cable Ties
and Tools

B2.
Cable
Accessories

B3.
Stainless Steel
Cable Ties,
Tools and
Accessories

C1.
Wiring
Duct

C2.
Abrasion
Protection

D1.
Terminals
and
Ferrules

E1.
Labeling
Systems

E2.
Labels

E3.
Permanent
Identification

F.
Part
Number
Index

Part Number	Part Number	Diameter		Width		Height		Min. Cable O.D.		Max. Cable O. D.		Wire Range	Labels Per Row	Labels Per Roll	Std. Pkg. Qty. (Roll)
		In	mm	In.	mm	In.	mm	In.	mm	In.	mm				
H100X025H1T-2*	H100X025H2T-2*	0.13	3.1	1.00	25.4	0.25	6.4	0.04	1.0	0.13	3.3	22 – 18 AWG	2	1000	1
H200X025H1T-2*	H200X025H2T-2*			2.00	50.8	0.25	6.4						1	500	1
H100X034H1T-2*	H100X034H2T-2*	0.19	4.7	1.00	25.4	0.34	8.6	0.06	1.5	0.19	4.8	18 – 12 AWG	1	1000	1
H200X034H1T-2*	H200X034H2T-2*			2.00	50.8	0.34	8.6						1	500	1
H100X044H1T-2*	H100X044H2T-2*	0.25	6.3	1.00	25.4	0.44	11.2	0.08	2.0	0.25	6.4	16 – 10 AWG	2	1000	1
H200X044H1T-2*	H200X044H2T-2*			2.00	50.8	0.44	11.2						1	500	1
H100X064H1T-2*	H100X064H2T-2*	0.38	9.7	1.00	25.4	0.64	16.3	0.13	3.3	0.38	9.7	12 – 6 AWG	2	1000	1
H200X064H1T-2*	H200X064H2T-2*			2.00	50.8	0.64	16.3						1	500	1
H100X084H1T-2*	H100X084H2T-2*	0.50	12.7	1.00	25.4	0.84	21.3	0.17	4.3	0.50	12.7	8 – 1 AWG	2	1000	1
H200X084H1T-2*	H200X084H2T-2*			2.00	50.8	0.84	21.3						1	500	1
H100X122H1T-2	H100X122H2T-2	0.75	19.0	1.00	25.4	1.22	31.0	0.25	6.3	0.75	19.0	8 – 4/0 AWG	2	500	1
H200X122H1T-2	H200X122H2T-2			2.00	50.8	1.22	31.0						1	250	1
H100X165H1T-2	H100X165H2T-2	1.00	25.4	1.00	25.4	1.65	41.9	0.33	8.4	1.00	25.4	4 AWG – 500 kcmil	2	500	1
H200X165H1T-2	H200X165H2T-2			2.00	50.8	1.65	41.9						1	250	1

Order number of labels required in multiples of Standard Package Quantity.

*Available in Bulk packages (5 times Labels Per Roll), add -B to end of part number



Thermal Transfer Halogen-Free Two-Sided Heat Shrink Labels

- Permanent, one-piece, heat shrink sleeve designed to provide clear, durable identification of wires and cables
- Can be printed on both sides for improved visibility
- Meet SAE-AS5942, MIL-STD-883F Method 2015.13, Solutions A, B, and D, and MIL-STD-202G Method 215K, Solutions A, C, and D when printed with resin and hybrid thermal transfer ribbons
- Meet BS6853; 1999 Vehicle Category 1A for burning behavior and toxic gas emissions; Smoke Density Class II
- Shrink ratio 2:1
- Use thermal transfer hybrid ribbon
- Temperature range: -22°F to 221°F (-30°C to 105°C)



Part Number	Part Number	Diameter		Width		Height		Min. Cable O.D.		Max. Cable O.D.		Wire Range	Labels Per Row	Labels Per Roll	Std. Pkg. Qty. (Roll)
		In.	mm	In.	mm	In.	mm	In.	mm	In.	mm				
H100X025HFT-2	H100X025HGT-2	0.13	3.1	1.00	25.4	0.25	6.4	0.06	1.5	0.13	3.3	22 – 18 AWG	2	1000	1
H200X025HFT-2	H200X025HGT-2			2.00	50.8	0.25	6.4						1	500	1
H100X034HFT-2	H100X034HGT-2	0.19	4.7	1.00	25.4	0.34	8.6	0.09	2.3	0.19	4.8	18 – 12 AWG	2	1000	1
H200X034HFT-2	H200X034HGT-2			2.00	50.8	0.34	8.6						1	500	1
H100X044HFT-2	H100X044HGT-2	0.25	6.4	1.00	25.4	0.44	11.1	0.13	3.3	0.25	6.4	16 – 10 AWG	2	1000	1
H200X044HFT-2	H200X044HGT-2			2.00	50.8	0.44	11.1						1	500	1
H100X064HFT-2	H100X064HGT-2	0.38	9.7	1.00	25.4	0.64	16.2	0.19	4.8	0.38	9.7	12 – 6 AWG	2	1000	1
H200X064HFT-2	H200X064HGT-2			2.00	50.8	0.64	16.2						1	500	1
H100X084HFT-2	H100X084HGT-2	0.50	12.7	1.00	25.4	0.84	21.3	0.25	6.4	0.50	12.7	8 – 1 AWG	2	1000	1
H200X084HFT-2	H200X084HGT-2			2.00	50.8	0.84	21.3						1	500	1
H100X165HFT-2	H100X165HGT-2	1.00	25.4	1.00	25.4	1.65	41.9	0.50	12.7	1.00	25.4	8 AWG – 500 kcmil	2	500	1
H200X165HFT-2	H200X165HGT-2			2.00	50.8	1.65	41.9						1	250	1

Order number of labels required in multiples of Standard Package Quantity.

PATENTED

Thermal Transfer Fluid-Resistant Two-Sided Heat Shrink Labels

- Permanent, one-piece, heat shrink sleeve designed to provide clear, durable identification of wires and cables
- Cross-linked, semi-rigid, fluid-resistant, shrinkable polyolefin material
- Available in yellow only
- Can be printed on both sides for improved visibility
- Meet the material requirements and physical properties AMS-DTL-23053/6 Class 1 and NF F00-608 Class A and H when printed with resin thermal transfer ribbons
- Meet SAE-AS5942, MIL-STD-883F Method 2015.13 Solutions A and D, and MIL-STD-202G Method 215K, Solutions A and D when printed with resin thermal transfer ribbons
- Shrink ratio 3:1
- Use thermal transfer RMER4BL-C resin ribbon
- Temperature range: -67°F to 275°F (-55°C to 135°C)



Part Number	Diameter		Width		Height		Min. Cable O.D.		Max. Cable O.D.		Wire Range	Labels Per Row	Labels Per Roll	Std. Pkg. Qty. (Roll)
	In.	mm	In.	mm	In.	mm	In.	mm	In.	mm				
H100X034HST-2	0.19	4.7	1.00	25.4	0.34	8.6	0.06	1.5	0.19	4.8	18 – 12 AWG	2	1000	1
H200X034HST-2			2.00	50.8	0.34	8.6						1	500	1
H100X044HST-2	0.25	6.4	1.00	25.4	0.44	11.1	0.08	2.0	0.25	6.4	16 – 10 AWG	2	1000	1
H200X044HST-2			2.00	50.8	0.44	11.1						1	500	1
H100X064HST-2	0.38	9.7	1.00	25.4	0.64	16.2	0.13	3.3	0.38	9.7	12 – 6 AWG	2	1000	1
H200X064HST-2			2.00	50.8	0.64	16.2						1	500	1
H100X084HST-2	0.50	12.7	1.00	25.4	0.84	21.3	0.17	4.3	0.50	12.7	8 – 1 AWG	2	1000	1
H200X084HST-2			2.00	50.8	0.84	21.3						1	500	1
H100X165HST-2	1.00	25.4	1.00	25.4	1.65	41.9	0.33	8.4	1.00	25.4	8 AWG – 500 kcmil	2	500	1
H200X165HST-2			2.00	50.8	1.65	41.9						1	250	1

Heat Shrink Tools and Accessories

- Adjustable air intake regulator provides variable temperature adjustment within the units rated heat range
- Toggle type control switch provides hot/cold/off operation
- Replaceable brushes are easy to service and extend the operating life of the gun
- Unique suspended quick change heating element design prolongs life and eases servicing



Part Number	Part Description	Std. Pkg. Qty.	Std. Ctn. Qty.
HSG-115V-650	Heat gun with temperature range of 650°F (344°C) to 900°F (482°C).	1	—
HSG-A1	Shrink tube reflector for tubing up to 3/4" inside diameter. Directs heat around tubing to reduce shrink time.	1	10
HSG-A2	Shrink tube reflector for tubing up to 1 1/2" inside diameter. Directs heat around tubing to reduce shrink time.	1	10
HSG-A3	Shrink tube concentrator. Directs heat toward tubing and away from heat sensitive items.	1	10
HSG-P1	Replacement brush/spring kit.	1	5
HSG-P2	Replacement switch 20 Amps.	1	5
HSG-P3	Replacement bearing kit.	1	5
HSG-P7	Replacement heat element 650°F.	1	—

Thermal Transfer Component Labels

- Polyester labels provide durability; high-temperature resistance and dimensional stability; does not easily stretch or tear
- Super-Tack Polyester labels are used on rough textured, painted, and coated surfaces
- Tedlar® labels are self-extinguishing and ideal for high-temperature areas. Meet Federal Motor Vehicle Safety Standard (FMVSS-302)*
- Vinyl Cloth labels are ideal for temporary marking of chips, boards, and ICs. Pliable material is suitable for rough texture surfaces
- Polyimide labels are ideal for electronic components and internal circuitry applications
- Paper labels are for general purpose use
- Use recommended ribbon below:
 - Polyester, Super-Tack Polyester, Tedlar®, and Non-Adhesive Polyester use thermal transfer resin ribbon
 - White Polyimide use thermal transfer RMER4BL-C resin ribbon
 - Vinyl Cloth, Tan Polyimide, and Paper use thermal transfer hybrid ribbon
- Temperature range:
 - Polyester, Super-Tack Polyester, Non-Adhesive Polyester: -40°F to 302°F (-40°C to 150°C)
 - Tedlar®: -40°F to 225°F (-40°C to 106°C)
 - Vinyl Cloth: -40°F to 170°F (-40°C to 77°C)
 - Polyimide: -40°F to 350°F (-40°C to 177°C)
 - Paper: -65°F to 160°F (-54°C to 71°C)



			Width		Height			Labels Per Row	Std. Pkg. Qty.
Part Number	Color	Material	In.	mm	In.	mm	Type of Application		
C025X025KBT	White	Polyimide	0.25	6.4	0.25	6.4	General Identifier	12	10000
C025X025KCT	Tan								
C025X025YJT	White	Polyester	0.38	9.7	0.38	9.7		7	
C038X038KBT		Polymide							
C038X038KCT	Tan								
C038X038YJT	Polyester								
C050X013KBT	White	Polyimide	0.50	12.7	0.13	3.3		5	
C050X013KCT	Tan								
C050X020KBT	White	Vinyl Cloth			0.20	5.1			
C050X044CBT		Polyimide							
C050X044KBT	Tan								
C050X044KCT	Polyester	0.60			15.3	0.20			
C050X044YJT	White		Vinyl Cloth						
C060X020CBT	White		Polyimide						
C060X020KBT			Tan						
C060X020KCT	White	Tedlar*							
C060X020TJT		Polyester							
C060X020YJT		Super-Tack Polyester							
C061X030YPT			0.61	15.5	0.30	7.6	1-Port Identifier	4	2500
C065X019KBT	White	Polyimide	0.65	16.5	0.19	4.8	General Identifier	3	10000
C065X019KCT	Tan								

Labels are roll mounted on 3.00" cores; when using the TDP43ME printer and 3.00" cores, the roll stand (TDP43ME-RS) is required.

Other colors and sizes available. Refer to www.panduit.com for additional information.

*Tedlar is a registered trademark of E.I. du Pont de Nemours and Company.

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Thermal Transfer Component Labels (continued)

			Width		Height			Labels Per Row	Std. Pkg. Qty.
Part Number	Color	Material	In.	mm	In.	mm	Type of Application		
C075X025AAT	Silver	Tamper-Evident Polyester	0.75	19.1	0.25	6.4	General Identifier	3	10000
C075X025CBT	White	Vinyl Cloth							
C075X025KBT		Polyimide							
C075X025KCT	Tan								
C075X025PBT	White	Paper							
C075X025YJT		Polyester							
C075X025YMT	Silver	Polyester	0.80	20.3	0.20	5.1			
C080X020KBT	White	Polyimide							
C080X020KCT	Tan								
C080X020YJT	White	Polyester	0.90	22.9	0.25	6.4			
C090X025KBT		Polyimide							
C090X025KCT	Tan								
C090X025TJT	White	Tedlar*	1.00	25.4	0.19	4.8			
C090X025YJT		Polyester							
C100X019KBT	Tan	Polyimide							
C100X019KCT									
C100X025CBT	White	Vinyl Cloth			0.38	9.7			
C100X025KBT	Polyimide								
C100X025KCT		Tan							
C100X025YJT	White	Polyester							
C100X038CBT		Vinyl Cloth							
C100X038KBT		Polyimide							
C100X038KCT	Tan								
C100X038TJT	White	Tedlar*			1.00	25.4	0.50	12.7	
C100X038YJT	Clear	Polyester							
C100X050AAT	Silver	Tamper-Evident Polyester							
C100X050CBT	White	Vinyl Cloth							
C100X050PBT		Paper							
C100X050TJT		Tedlar*							
C100X050YJT		Polyester							
C100X050YKT	Clear	Polyester							
C100X050YMT	Silver	Polyester							
C100X050YPT	White	Super-Tack Polyester							
C125X025KBT		Polyimide	1.25	31.8	0.25	6.4		2	
C125X025KCT	Tan								
C125X030YPT	Super-Tack Polyester	0.30			7.6	2-port identifier	3	2500	
C125X038TJT	White	Tedlar*			0.38	9.7	General Identifier	3	10000
C125X038YJT		Polyester							
C138X019Y0T	Black	Super-Tack Polyester	1.38	35.1	0.19	4.8	Module	1	2500
C138X019YPT	White								
C150X025KBT	Polyimide	1.50	38.1	0.25	6.4	General Identifier	2	5000	
C150X025KCT									Tan

Labels are roll mounted on 3.00" cores; when using the TDP43ME printer and 3.00" cores, the roll stand (TDP43ME-RS) is required.

Other colors and sizes available. Refer to www.panduit.com for additional information.

*Tedlar is a registered trademark of E.I. du Pont de Nemours and Company.

Thermal Transfer Component Labels (continued)

			Width		Height			Labels Per Row	Std. Pkg. Qty.	
Part Number	Color	Material	In.	mm	In.	mm	Type of Application			
C150X030Y1T	White	Non-Adhesive Polyester	1.50	38.1	0.30	7.6	3-Port Identifier	2	1000	
C150X050YJT		Polyester			0.50	12.7	General Identifier	1	5000	
C150X075CBT		Vinyl Cloth			0.75	19.1				
C150X075PBT		Paper								
C150X075YJT		Polyester								
C150X075YMT	Silver	Polyester								
C160X020CBT	White	Vinyl Cloth	1.60	40.6	0.20	5.1	General Identifier	1	10000	
C160X020KBT		Polyimide								
C160X020KCT	Tan									
C160X020YJT	Polyester									
C188X030YPT	White	Super-Tack Polyester	1.88	47.8	0.30	7.6			3-Port Identifier	
C195X040Y1T		Non-Adhesive Polyester	1.95	49.5	0.40	10.2	Single-Gang Faceplate	2	1000	
C200X025KBT		Tan	Polyimide	2.00	50.8	0.25	6.4	General Identifier	1	5000
C200X025KCT										
C200X025YJT	White	Polyester	0.38			9.7				
C200X038KBT		Polyimide								
C200X038TJT		Tedlar*								
C200X038YJT		Polyster	0.50			12.7				
C200X050CBT		Vinyl Cloth								
C200X050YJT	Polyester									
C200X100AAT	Silver	Tamper-Evident Polyester								2500
C200X100PBT	White	Paper								
C200X100TJT		Tedlar*								
C200X100Y0T	Black	Super-Tack Polyester					1.00	25.4		
C200X100YJT	White	Polyester								
C200X100YKT	Clear									
C200X100YMT	Silver									
C200X100YPT	White	Super-Tack Polyester								
C252X030YPT	White	Super-Tack Polyester	2.52	64.0	0.30	7.6	4-Port	1	2500	
C261X030YPT			2.61	66.3	0.30	7.6		2	1000	
C261X035Y1T		Non-Adhesive Polyester	2.61	66.3	0.35	8.9				
C275X125AAT	Silver	Tamper-Evident Polyester	2.75	69.9	1.25	31.8	General Identifier	1	2500	
C275X125YJT	White	Polyester								
C275X125YMT	Silver	Polyester								
C275X125Y0T	Black	Super-Tack Polyester								
C275X125YPT	White									
C288X030YPT										
C288X040Y1T			Non-Adhesive Polyester	2.88	73.2	0.30	7.6	5-Port Identifier		1
					0.40	10.2	Double-Gang Faceplate	2		

Labels are roll mounted on 3.00" cores; when using the TDP43ME printer and 3.00" cores, the roll stand (TDP43ME-RS) is required.

Other colors and sizes available. Refer to www.panduit.com for additional information.

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Thermal Transfer Component Labels (continued)

			Width		Height			Labels Per Row	Std. Pkg. Qty.
Part Number	Color	Material	In.	mm	In.	mm	Type of Application		
C300X025KBT	White	Polyimide	3.00	76.2	0.25	6.4	General Identifier	1	5000
C300X025KCT	Tan								
C300X025YJT	White	Polyester							
C300X038TJT		Tedlar*			0.38	9.7			
C300X038YJT									
C300X100YJT	Polyester	1.00			25.4	2500			
C300X100YMT	Silver								
C300X200PBT	White	Paper							1000
C300X200YJT	Polyester	2.00			50.8				
C300X200YMT	Silver								
C300X200YPT	White	Super-Tack Polyester	3.15	80.0	0.30	7.6	5-Port Identifier	2	2500
C315X030YPT							General Identifier		
C350X100YJT		Polyester	3.50	88.9	1.00	25.4			
C379X030YPT		Super-Tack Polyester	3.79	96.3	0.30	7.6	6-Port Identifier		
C390X030Y1T		Non-Adhesive Polyester	3.90	99.1	0.30	7.6			
C400X100CBT	White	Vinyl Cloth	4.00	101.6	1.00	25.4	General Identifier	1	1000
C400X100PBT		Paper							
C400X100YJT		Polyester							
C400X200PBT		Paper							
C400X200Y8T	Yellow	Super-Tack Polyester			2.00	50.8			
C400X200YJT	White	Polyester							2500
C400X200YMT	Silver								
C400X300PBT	White	Paper			3.00	76.2			
C400X300YJT		Polyester							
C400X300YPT		Super-Tack Polyester							
C400X400YJT		Polyester			4.00	101.6			
C400X500PBT		Paper			5.00	127.0			
C400X600PBT									1000
C400X600YJT		Polyester			6.00	152.4			
C750X050Y1T		Non-Adhesive Polyester	7.50	190.5			110 Block		
C788X050Y1T			7.88	200.2	0.50	12.7	GP6™ Punchdown System		

Labels are roll mounted on 3.00" cores; when using the TDP43ME printer and 3.00" cores, the roll stand (TDP43ME-RS) is required.

Other colors and sizes available. Refer to www.panduit.com for additional information.

*Tedlar is a registered trademark of E.I. du Pont de Nemours and Company.

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Thermal Transfer Raised Panel Labels

- Raised thermal transfer printable surface with high-tack adhesive for strong holding power
- Variety of sizes and colors for a wide range of applications
- Thermal transfer print technology provides crisp, clear, and durable text
- Use with thermal transfer resin ribbon
- Temperature range: -40°F to 212°F (-40°C to 100°C)



Raised Panel Push Button Labels

		Width		Height		Print-On Area Height		Hole Diameter		Labels Per Row	Std. Pkg. Qty.
Part Number	Color	In.	mm	In.	mm	In.	mm	In.	mm		
C120X150APT-22	White	1.20	30.5	1.50	38.1	0.45	11.4	0.87	22.0	3	500
C120X150A8T-22	Yellow										
C120X150AST-22	Green										
C120X150AWT-22	Red										
C120X150A0T-22	Black										
C120X190APT-22	White			1.90	48.3	0.85	21.6				
C120X190A8T-22	Yellow										
C120X190AST-22	Green										
C120X190AWT-22	Red										
C120X190A0T-22	Black										
C180X180APT-30	White	1.80	45.7	1.80	45.7	0.36	9.1	1.18	30.0	2	
C180X180A8T-30	Yellow										
C180X180AST-30	Green										
C180X180AWT-30	Red										
C180X180A0T-30	Black										
C240X240APT-30	White	2.40	61.0	2.40	61.0	0.90	22.9			1	
C240X240A8T-30	Yellow										
C240X240AST-30	Green										
C240X240AWT-30	Red										
C240X240A0T-30	Black										

Labels are roll mounted on 3.00" cores; when using the TDP43ME printer and 3.00" cores, the roll stand (TDP43ME-RS) is required.

Raised Panel Half Push Button Labels

Part Number	Color	Width		Height		Print-On Area Height		Hole Diameter		Labels Per Row	Std. Pkg. Qty.
		In.	mm	In.	mm	In.	mm	In.	mm		
C180X130APT-30H	White	1.80	45.7	1.30	33.0	0.73	18.5	1.18	30.0	1	500
C240X200APT-30H		2.40	61.0	2.00	50.8	1.43	36.3				

Labels are roll mounted on 3.00" cores; when using the TDP43ME printer and 3.00" cores, the roll stand (TDP43ME-RS) is required.

Thermal Transfer Raised Panel Labels (continued)

Raised Panel Component Labels

		Width		Height		Labels Per Row	Std. Pkg. Qty.		
Part Number	Color	In.	mm	In.	mm				
C100X050APT	White	1.00	25.4	0.50	12.7	3	500		
C100X050A8T	Yellow								
C100X050AST	Green								
C100X050AUT	Orange								
C100X050AWT	Red								
C100X050A0T	Black								
C100X050AMT	Silver	1.25	31.8	0.30	7.6				
C125X030APT	White								
C125X030A0T	Black								
C170X090APT	White	1.70	43.2	0.90	22.9				
C170X090A8T	Yellow								
C170X090AST	Green								
C170X090AWT	Red								
C170X090AMT	Silver								
C200X100APT	White	2.00	50.8	1.00	25.4				
C200X100A8T	Yellow								
C200X100AST	Green								
C200X100AUT	Orange								
C200X100AWT	Red								
C200X100A0T	Black								
C200X100AMT	Silver	2.52	64.0	0.30	7.6				
C252X030APT	White								
C252X030A0T	Black								
C300X100APT	White	3.00	76.2	1.00	25.4	1			
C300X100A8T	Yellow								
C300X100AUT	Orange								
C300X100AWT	Red								
C300X100A0T	Black								
C300X250APT	White			2.50	63.5				
C300X250A8T	Yellow								
C300X250AST	Green								
C300X250AUT	Orange								
C300X250AWT	Red								
C300X250A0T	Black								
C300X250AMT	Silver	3.50	88.9	3.00	76.2				
C350X300APT	White								
C350X300A8T	Yellow								
C350X300AUT	Orange								
C350X300A0T	Black								
C379X030APT	White	3.79	96.3	0.30	7.6				
C379X030AQT	Blue								
C379X030AWT	Red								
C379X030A0T	Black								

Labels are roll mounted on 3.00" cores; when using the TDP43ME printer and 3.00" cores, the roll stand (TDP43ME-RS) is required.

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Thermal Transfer Raised Panel Labels (continued)

Part Number	Part Description	Width		Length		Labels Per Row	Std. Pkg. Qty.
		In.	mm	In.	mm		
C400X100APT	White	4.00	101.6	1.00	25.4	1.00	25.4
C400X100A8T	Yellow						
C400X100AST	Green						
C400X100AUT	Orange						
C400X100AWT	Red						
C400X100A0T	Black						
C400X100AMT	Silver						

Labels are roll mounted on 3.00" cores; when using the TDP43ME printer and 3.00" cores, the roll stand (TDP43ME-RS) is required.

Thermal Transfer Continuous Tapes

- Tapes offer crisp, clear legends with superior legibility
- Conformable material for flat applications and safety and facility identification
- Can be over-laminated to increase durability
- Use thermal transfer resin ribbon
- Temperature ranges:
Vinyl: -58°F to 176°F (-50°C to 80°C)
Polyolefin: -40°F to 180°F (-40°C to 82°C)
Polyester & Super-Tack Polyester: -40°F to 302°F (-40°C to 150°C)
Reflective: -40°F to 180°F (-40°C to 82°C)



Part Number	Color	Material	Width		Length		Std. Pkg. Qty. (Roll)
			In.	mm	Ft.	m	
T024X000FJT*	White	Polyolefin	0.24	6.1	100.0	30.5	1
T031X000FJT*			0.31	7.9			
T038X000FJT*			0.38	9.7			
T038X000Y01	Black	Super-Tack Polyester	0.50	12.7	100.0	30.5	1
T038X000YP1	White	Polyolefin					
T050X000FJT*	Black	Super-Tack Polyester					
T050X000Y01	White	Reflective	1.00	25.4	50.0	15.2	1
T050X000YP1	White						
T100X000RP1	White						
T100X000RU1	Orange	Vinyl	1.00	25.4	100.0	30.5	1
T100X000RW1	Red						
T100X000RX1	Yellow						
T100X000VP1Y	White	Super-Tack Polyester	1.00	25.4	100.0	30.5	1
T100X000VQ1Y	Blue						
T100X000VS1Y	Green						
T100X000VU1Y	Orange	Polyester	1.00	25.4	100.0	30.5	1
T100X000VW1Y	Red						
T100X000VX1Y	Yellow						
T100X000VY1Y	Black	Super-Tack Polyester	1.00	25.4	100.0	30.5	1
T100X000Y01	Yellow						
T100X000YK1	Clear						
T100X000YP1	White	Super-Tack Polyester	1.00	25.4	100.0	30.5	1
T100X000YQ1	Blue						
T100X000YS1	Green						
T100X000YU1	Orange	Reflective	2.00	50.8	50.0	15.2	1
T100X000YW1	Red						
T200X000RP1	White						
T200X000RU1	Orange	Vinyl	2.00	50.8	100.0	30.5	1
T200X000RW1	Red						
T200X000RX1	Yellow						
T200X000VP1Y	White	Super-Tack Polyester	2.00	50.8	100.0	30.5	1
T200X000VQ1Y	Blue						
T200X000VR1Y	Brown						
T200X000VS1Y	Green	Polyester	2.00	50.8	100.0	30.5	1
T200X000VT1Y	Gray						
T200X000VU1Y	Orange						
T200X000VV1Y	Purple	Super-Tack Polyester	2.00	50.8	100.0	30.5	1
T200X000VW1Y	Red						
T200X000VX1Y	Yellow						
T200X000VY1Y	Black	Polyester	2.00	50.8	100.0	30.5	1
T200X000Y01	Yellow						
T200X000YK1	Clear						

Order number of rolls required in multiples of Standard Package Quantity.

*Labels are roll mounted on 3.00" cores; when using the TDP43ME printer and 3.00" cores, the roll stand (TDP43ME-RS) is required.

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Thermal Transfer Continuous Tapes (continued)

			Width		Length		Std. Pkg. Qty. (Roll)
Part Number	Color	Material	In.	mm	Ft.	m	
T200X000YP1	White	Super-Tack Polyester	2.00	50.8	100.0	30.5	1
T200X000YQ1	Blue						
T200X000YS1	Green						
T200X000YU1	Orange						
T200X000YW1	Red						
T225X000YK1	Clear	Polyester	2.25	57.2	50.0	15.2	
T300X000RP1	White	Reflective	3.00	76.2			
T400X000RP1	Blue						
T400X000RQ1	Orange						
T400X000RU1	Red						
T400X000RX1	Yellow						
T400X000VP1Y	White	Vinyl	4.00	101.6	100.0	30.5	
T400X000VQ1Y	Blue						
T400X000VR1Y	Brown						
T400X000VS1Y	Green						
T400X000VT1Y	Gray						
T400X000VU1Y	Orange						
T400X000VV1Y	Purple						
T400X000VW1Y	Red						
T400X000VX1Y	Yellow						
T400X000VY1Y	Black						
T400X000Y01		Super-Tack Polyester	4.00	101.6	100.0	30.5	
T400X000Y81	Yellow						
T400X000YK1	Clear	Polyester					
T400X000YP1	White	Super-Tack Polyester					
T400X000YQ1	Blue						
T400X000YS1	Green						
T400X000TU1	Orange						
T400X000YW1	Red						
T425X000YK1	Clear	Polyester					

Order number of rolls required in multiples of Standard Package Quantity.

*Labels are roll mounted on 3.00" cores; when using the TDP43ME printer and 3.00" cores, the roll stand (TDP43ME-RS) is required.

Permanent Identification

Panduit® offers the widest range of permanent identification solutions in the industry to withstand the test of time and provide legibility in harsh environments. Safe, quick, and easy to install, Panduit permanent identification solutions include stainless steel and aluminum marker plates, tags, marking tools and ties to deliver improved productivity and workplace safety.



- **Factory Custom Marking Service** creates embossed or laser etched metal plates, tags, and ties to speed installation time and reduce labor costs
- **Portable on-site marking tools** for quick and easy identification on demand
- **Large identification selection** delivers maximum design flexibility to match your specific application requirements
- **Optimized for easy use with Panduit self-locking stainless steel and aluminum ties**; for details, refer to **Pan-Steel® System Section B3**

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If you are missing information from this catalog, please refer to the Full line catalog posted on panduit.com.

Portable Embossing System

- Ideal for on-site permanent identification
- Creates raised characters on stainless steel and aluminum marker plates, to deliver maximum visibility for medium to high volume applications that are exposed to dirt and paint
- Improves productivity by providing a reliable connection from the embossing machine to your PC using Easy-Mark™ Plus Software
- Easy-Mark™ Plus Software allows for a quick print legend and exact preview saving time and reducing print costs
- Easy loading hopper allows for easy stacking of up to 200 plates, saving time and money



Part Number	Part Description	Std. Ctn. Qty.
PES197/E*	Portable embossing system 3/16" (4.77mm) character, 11.5" (292mm) x 21.0" (534mm) x 19.0" (483mm), 95 lbs. (43 kg), 230 volt, 50 Hz with Easy-Mark™ Plus Software.	1

Characters include: A to Z, 0 to 9, ! @ # \$ % & * () - + = : " ' . / ?

*For use with 1000 pack marker plates only.

System Requirements: Designed for Windows^ 2000, XP, Vista, 7, 8 or 10; 64 MB hard drive space, and 64 MB RAM (256 MB RAM recommended). Female DB9 serial communication port.

^Windows is a registered trademark of Microsoft Corporation in the United States and/or other countries.

			Length/ Diameter		Width		3/16" (4.77mm) Characters per Line	Thickness		Std. Pkg. Qty.	Std. Ctn. Qty.		
Part Number	Material	Color	In.	mm	In.	mm		In.	mm				
MMP350-M	304 Stainless Steel	Natural	3.50	89.0	0.75	19.0	18	0.01	0.25	1000	4000		
MMP350-M316	316 Stainless Steel						1000			4000			
MMP350H-M	304 Stainless Steel						1000			4000			
MMP350H-M316	316 Stainless Steel						1000			4000			
MMP350H-MAL	Aluminum	Natural			3.50	89.0	0.54	13.7	16	0.01	0.30	1000	4000
MMP350HW54-MAL												1000	4000
MMP350W38-M	304 Stainless Steel						0.38	10.0	18	0.01	0.25	1000	4000
MMP350W38-M316	316 Stainless Steel											1000	4000

Metal Embossing Hand Tool and Tape System

- Multi-functional cutting die design creates embossed marker plates with raised cable tie slot in one step instead of three, for faster installation
- Lightweight, compact and portable, allows user to create custom length identification on demand at remote job sites
- Embosses 3/16" characters onto stainless steel or aluminum tape, to improve visibility in applications that are subjected to dirt or paint



Part Number	Part Description	Std. Ctn. Qty.
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Tool Kit

MEHT187	Includes tool, additional marking wheel, carrying case, one roll each META (aluminum) and METS (stainless steel) tape. Characters included: 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 / ()	1
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Tape

META-X	0.50" x 16' (12.7mm x 4.9m) aluminum tape*.	10
METS3-X	0.50" x 21' (12.7mm x 6.4m) 316 grade stainless steel tape.	10
METS4-X	0.50" x 21' (12.7mm x 6.4m) 304 grade stainless steel tape.	10

*Aluminum ties are recommended for use with aluminum tape to prevent galvanic reaction (corrosion that can occur between stainless steel and aluminum in certain environments).



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ACC38-AV-M300.....	B2.11	BR2-4-X.....	B2.21	BT5LH-L.....	B1.30
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BC1.5I-S8-M0.....	B1.34	BT1.5M-XMR0.....	B1.63	C2WH6.....	C1.9
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BC4LH-S25-L0.....	B1.34	BT2I-C0.....	B1.31	C050X013KBT.....	E2.14
BC4S-S10-C.....	B1.33	BT2I-M30.....	B1.32	C050X013KCT.....	E2.14
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BEC62-A-L.....	B2.12	BT2M-M30.....	B1.32	C050X044YJT.....	E2.14
BEC62-A-L20.....	B2.12	BT2S-C.....	B1.30	C060X020CBT.....	E2.14
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T200X000Y81	E2.21	TM3S10-M69	B1.12		
T200X000YK1	E2.21	TMEH-S8-Q0	B2.6		
T200X000YP1	E2.22	TMEH-S10-C100	B2.6		
T200X000YQ1	E2.22	TMEH-S10-C109	B2.6		
T200X000YS1	E2.22	TMEH-S10-Q0	B2.6		
T200X000YU1	E2.22	TMEH-S25-Q0	B2.6		
T200X000YW1	E2.22	TMSTHS10-D0	B2.9		
T225X000YK1	E2.22	TMSTHS11-D0	B2.9		
T300X000RP1	E2.22	TMSTHS12-D0	B2.9		
T400X000RP1	E2.22	TMSTHS13-D0	B2.9		
T400X000RQ1	E2.22	TMSTHS16-D0	B2.9		
T400X000RU1	E2.22	TMSTHS19-D0	B2.9		
T400X000RW1	E2.22	TMSTLHS6-M0	B2.9		
T400X000RX1	E2.22	TMSTLHS8-M0	B2.9		
T400X000TU1	E2.22	TNC25LG2	C1.13		