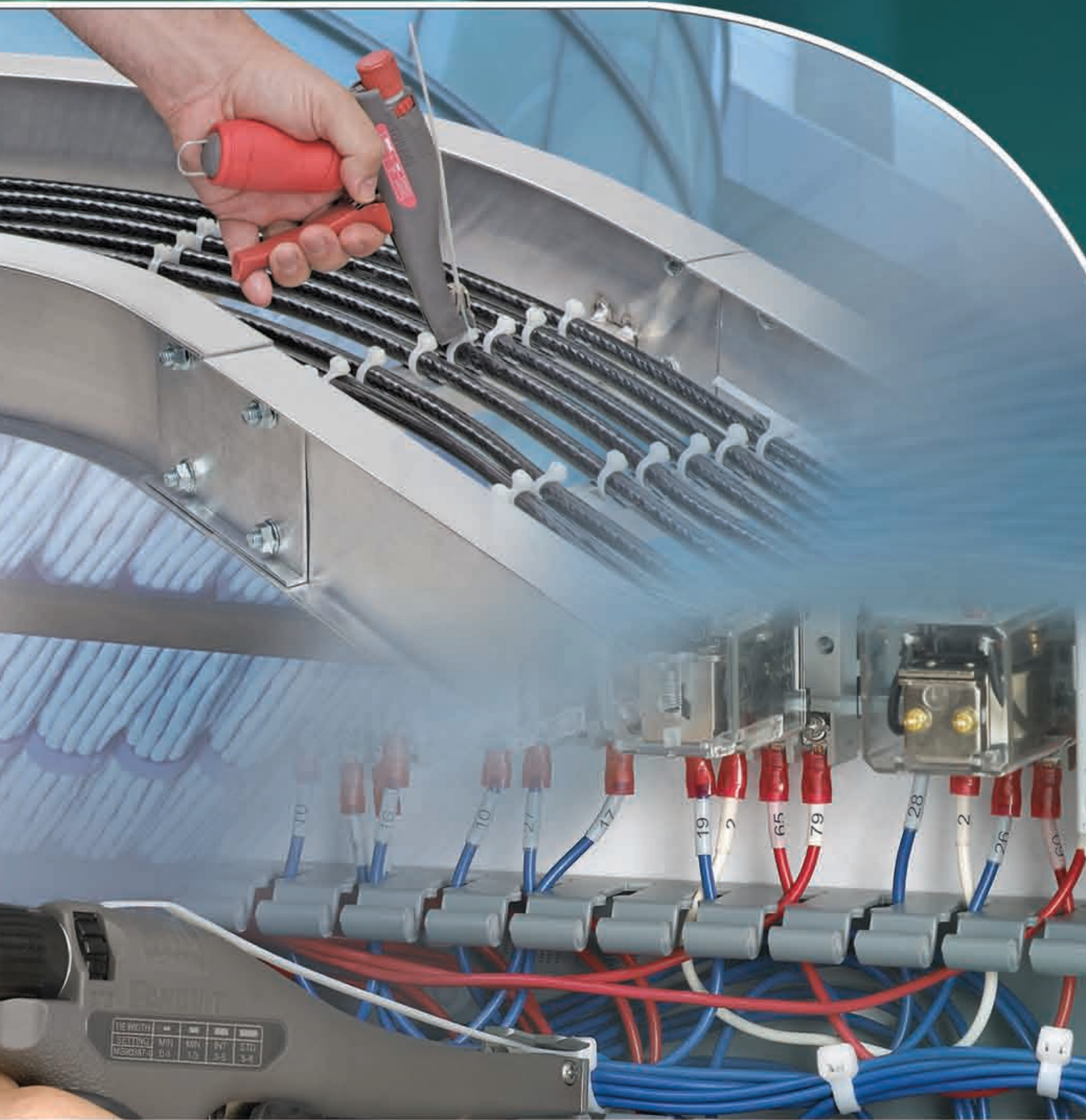




CABLE TIES

Product Selection Guide

Comprehensive Cable Tie Solutions

Panduit offers a broad selection of industry approved styles, sizes, and materials to meet a full range of electrical, industrial, and networking applications.

- PLT

Pan-Ty® Cable Ties

Most comprehensive product offering
- SG

Super-Grip® Cable Ties

Withstand rough installations
- BT

Dome-Top® Barb Ty Cable Ties

Metal locking barb; infinite adjustability
- DT

Dura-Ty® Cable Ties

Acetal material; 20+ years outdoor service life
- CBR

Contour-Ty® Cable Ties

Low profile head, parallel-entry, outside teeth
- HV

Hyper-V™ Cable Ties

Teeth on both sides; 2-wedge locking design
- SST

Sta-Strap® Cable Ties

Two-piece design, low thread force, lightweight
- ERT

Elastomeric Cable Ties

Flexible, elastic material, UL 94V-0, releasable

									
Product Family		PLT	SG	BT	DT	CBR	HV	SST	ERT
Styles	Locking	✓	✓	✓	✓	✓	✓	✓	
	Releasable	✓							✓
	Marker	✓		✓				✓	
	Clamp	✓		✓				✓	
	Push Mount	✓		✓					
	Specialty	✓		✓				✓	
Cross Sections	Miniature	✓	✓	✓		✓		✓	✓
	Intermediate	✓	✓	✓		✓		✓	
	Standard	✓	✓	✓		✓		✓	
	Heavy-Standard					✓			
	Light-Heavy	✓	✓	✓		✓	✓	✓	
	Heavy	✓	✓		✓				
	Extra-Heavy	✓			✓				

Cable Tie Industry Approvals

Agency	Spec/Approval	Requirement	Products
ABS (American Bureau of Shipping)	05-HS463235-PDA	2005 Steel Vessel Rules 1-1-4/7.7, 4-8-4/21.9.32001 MODU Rules 4-3-3/5.9.1	PLT and BT Series
Bureau Veritas	Cert 05968/C0, BV File ACE 14/601/01 Product Code: 2535H	Bureau Veritas Rules for the Classification of Steel Ships	PLT, PRT, BT and CBR Series
Det Norske Veritas	E-6405	Det Norske Veritas' Rules for Classification of Ships and Mobile Offshore Units	PLT, PLC, PLM, PRT, PLWP, PRWP and PRST Series
Germanischer Lloyd	30562-83HH, 32666-83HH, 51796-89HH, 98731-96HH	Germanischer Lloyd Approval	PLT and BT Series
Germany (VG) Military	K17/96066	VG 95 387 – 100 MS 3367F	PLT, BT and SST Series
Korean Register of Shipping	NYK06431-EL001, EL002, EL003	Type Approval for the Rules for Classification of Steel Ships	PLT and BT Series Mounts
Lloyd's Register of Shipping	89/60111 (E3)	Lloyd's Register Type Approval	PLT, PLC, PLP, PLWP, PLM, PRT, SST, SSC, SSM, BT, BC, BM, BF, B2M, B3M, BM, BW, BP, ILT and CBR Series
Russian Maritime Register of Shipping	11130200	Russian Maritime Type Approval Certificate	PLT, PLC, PLM, PLF, SG, BT, BF, BM, BC, DT and CBR Series
NRC (Nuclear Regulatory Commission)	NRC 10CFR50	Quality Assurance Criteria for Nuclear Plants and Reprocessing Plants	All cable tie products
Nippon Kaiji Kyokai	85VZ004B, 85BZ005B, 85VZ006B	Nippon Kaiji Kyokai Type Approval	PLT2H-12H, PLT2EH-12EH, PR2EH-12EH and SST2H-8H
US Military Aerospace Standard	QPL-AS23190-3	SAE spec AS23190	Select PLT, BT, SST, and CBR Series

Material Selection Criteria

	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	Flame Retardant Nylon 6.6	Flame Retardant Nylon 6.6	Weather Resistant Nylon 12	Polypropylene	Weather Resistant Polypropylene	TEFZEL [■]	HALAR [*]	PEEK	Metal Detectable Nylon	Metal Detectable Polypropylene	DT Weather Resistant Acetal	ERT Flame Retardant TPU
Mechanical Properties	Color	—	Natural (other colors available)	Black	Black	Black	Natural	Black	Black	Natural Ivory	Black	Green	Black	Aqua Blue	Maroon	Translucent Brown	Lt. Blue	Dark Blue	Black	Black
	Part Number Suffix (Material Designation)	—	No Suffix	0	0	30	39	300	60	69	120	109	100	76	702Y	71	86	186	N/A	20
	Tensile @ Yield @ 73°F (psi)	ISO 527	12,000	12,000	9,700	12,000	12,000	12,000	11,000	11,000	6,700	4,100	4,100	7,500	7,000	15,200	—	—	6,500	4,300
	Water Absorption (24 Hours)	ASTM D570	1.2%	1.2%	1.2%	1.2%	1.2%	1.2%	1.1%	1.1%	0.3%	0.1%	0.1%	<0.03%	<0.05%	0.5%	1.2%	0.1%	<0.45%	0.25%
	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	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	—
Chemical Resistance	Weathering Life Expectancy (Years)/UV Resistance	—	1 – 2	7 – 9	7 – 9	4 – 5	1 – 2	7 – 9	1 – 2	1 – 2	12 – 15	1	7 – 9	>15	>15	—	—	1	>20	7 – 9 (Note 1)
	Impact Resistance	—	○	○	⊖	○	○	○	⊖	⊖	○	⊖	⊖	●	●	●	○	⊖	⊖	●
	Salts	—	⊖	⊖	⊖	⊖	⊖	⊖	⊖	⊖	⊖	●	●	●	●	●	⊖	●	○	●
	Hydrocarbons (Oil, Lubricants)	—	●	●	●	●	●	●	●	●	●	○	○	●	●	●	●	○	●	○
	Chlorinated Hydrocarbons	—	⊖	⊖	⊖	⊖	⊖	⊖	⊖	⊖	⊖	○	○	●	●	●	⊖	○	⊖	⊖
	Acids	—	⊖	⊖	⊖	⊖	⊖	⊖	⊖	⊖	⊖	●	●	●	●	○	⊖	●	⊖	⊖
	Bases	—	⊖	⊖	⊖	⊖	⊖	⊖	⊖	⊖	⊖	●	●	●	●	●	⊖	●	⊖	⊖
Thermal Properties	Acid Rain	—	⊖	⊖	⊖	⊖	⊖	⊖	⊖	⊖	⊖	●	●	●	●	⊖	⊖	●	⊖	⊖
	Max. Continuous Use Temperature	UL 746B	185°F 85°C	185°F 85°C	185°F 85°C	239°F 115°C	239°F 115°C	212°F 100°C (Note 1)	212°F 100°C	212°F 100°C	194°F 90°C	239°F 115°C	239°F 115°C	338°F 170°C	302°F 150°C	500°F 260°C (Note 2)	185°F 85°C	239°F 115°C	185°F 85°C	122°F 50°C
	Min. Application Use Temperature	EN 50146	-76°F -60°C	-76°F -60°C	-76°F -60°C	-76°F -60°C	-76°F -60°C	-76°F -60°C	-40°F -40°C	-40°F -40°C	-76°F -60°C	-76°F -60°C	-76°F -60°C	-76°F -60°C	-76°F -60°C	-76°F -60°C	-76°F -60°C	-76°F -60°C	-76°F -60°C	-40°F -40°C
	Flammability Rating	UL 94	V-2	V-2	HB	V-2	V-2	V-2	V-0	V-0	HB	HB	HB	V-0	V-0	V-0	HB	HB	HB	V-0
	Low Smoke	ASTM E662	PASS	PASS	PASS	PASS	PASS	PASS	PASS	PASS	—	—	—	—	—	PASS	—	—	PASS	—
	Oxygen Index	BS ISO 4589	28	28	—	28	28	28	34	34	—	—	—	30	52	35	—	—	—	26
	Halogen-Free	IEC 60754-2	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	No	No	Yes	Yes	Yes	Yes	Yes
	Burning Fume Toxicity	BSS-7239	PASS	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	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	—	—	147°F 64°C	—
	Relative Price	—	Low	Low	Low	Low	Low	Med	Med	Med	Med	Med	Med	High	High	High	Low	Med	Med	High

Material Availability	Product Family			Cross Sections																
	Pan-Ty® Cable Ties PLT		✓	SM, M, I, S	LH, H, EH	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓		
	Super-Grip® Cable Ties SG		✓	M, I, S, LH	H	✓														
	Dome-Top® Barb Ty Cable Ties BT		✓	M, I, S	LH	✓	✓	✓		✓										
	Dura-Ty™ Cable Ties DT																		✓	
	Contour-Ty® Cable Ties CBR		✓	M, I, S, HS	LH	✓	✓			✓										
	Hyper-V™ Cable Ties HV				LH															
	Sta-Strap® Cable Ties SST		✓	M, I, S, LH		✓														
	Elastomeric Cable Ties ERT																			✓

Recommendation Legend				
Highest	High	Acceptable	Low	Lowest
●	⊖	○	⊖	●

Check mark indicates material availability in that product family for all cross sections.

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

Note 1: Estimated

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 Ausimont USA, Inc.

Bundling Systems for Network Cabling

Panduit has a comprehensive offering of cable ties that deliver reliability by protecting against over-tensioning of high performance fiber and copper cables. These ties are adjustable, releasable, and reusable to effectively support frequent moves, adds, and changes (MACs). A wide range of designs, sizes, and colors provides flexibility and an aesthetically pleasing appearance.



Tak-Ty® Loop Ties

Slot allows for pre-wrapping of bundles



Tak-Ty® Strip Ties

Rolls perforated in convenient 6", 8", or 12" strips for use with pre-determined bundle sizes



Tak-Ty® Rolls

Continuous rolls of 15' and 75' can be cut to any length



Tak-Ty® Stacked Strips

- Eliminates cutting and staging
- 7" strips (100 pieces)



Tak-Ty® Cable Ties – Plenum Rated

UL approved for use in air handling spaces



Ultra-Cinch™ Ties

Cinch ring accommodates tighter bundles



Elastomeric Cable Ties

- UL 94V-0 flammability rating
- Safe and releasable



Tak-Tape™ Rolls

General purpose fastener



Hook and Loop Wrap Marker Ties

- Write-on identification area
- Custom imprinting available

Complete Your Bundling System

Tools



Manual Cable Tie Installation Tools

- Designed to speed installation for lower installed cost
- Flush tie cut-off limits exposure to sharp edges
- A full line of lightweight, ergonomic hand tools available
- Panduit leads the industry in reliability and performance



Automatic Cable Tie Installation Systems

- An efficient solution for high volume harnessing, assembly, fastening and packaging applications
- High speed tools lower installed cost and reduce operator fatigue
- Wrap, tension, and cut off cable ties in less than one second
- Microprocessor based controller monitors system performance for production data and reporting

Services



Custom Imprinting Service

- Products available for custom imprinting include cable ties, marker plates, marker and flag ties, hook and loop wrap ties
- Results in a professional, high quality appearance for identification and labeling as well as promotional purposes
- Options include company logos, website addresses, sequential numbering, phone numbers, graphics and text

Related Products



Cable Accessories

- Comprehensive line of mounts, clips, and clamps that organizes and routes cables, speeds and simplifies installations, and lowers overall installed cost
- Installation methods include adhesive backed, user applied adhesive, screws, rivets and push barb
- Accessories provide long term reliability while cable clips and clamps offer a one-piece solution to save time and reduce inventory



Stainless Steel Cable Ties

- Durable method of bundling, fastening and permanent identification in applications where severe environmental conditions exist
- Engineered for safety, productivity and durability by providing round edges and smooth surfaces, easy threading, high loop tensile strength and tight clamping

PANDUIT®

For more information
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Contact Customer Service by email: cs@panduit.com
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