

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	CBR	Contour-Ty [®] Cable Ties Low profile head, parallel-entry, outside teeth							
SG	Super-Grip [®] Cable Ties Withstand rough installations	HV	Hyper-V [™] Cable Ties Teeth on both sides; 2-wedge locking design							
BT	Dome-Top [®] Barb Ty Cable Ties	SST	Sta-Strap [®] Cable Ties							
	Metal locking barb; infinite adjustability		Two-piece design, low thread force, lightweight							
PLWS	Pan-Ty [®] Wide Strap Cable Ties	ERT	Elastomeric Cable Ties							
	Ideal for Heavy Duty applications		Flexible, elastic material, UL 94V-0, releasable							
DT	Dura-Ty [®] Cable Ties	PLDC	Pan-Ty®Double Clamp Cable Ties							
	Acetal material; 20+ years outdoor service life		Ideal for Heavy Duty application							

		7		-		Y					
	Product Family	PLT	SG	BT	DT	CBR	HV	SST	ERT	PLWS	PLDC
	Locking	~	\checkmark	\checkmark	\checkmark	\checkmark	\checkmark	\checkmark		\checkmark	\checkmark
	Releasable	\checkmark							\checkmark		
les	Marker	\checkmark		\checkmark				\checkmark			
Styles	Clamp	\checkmark		\checkmark				\checkmark			
	Push Mount	\checkmark		\checkmark							
	Specialty	\checkmark		\checkmark				\checkmark			
	Miniature	\checkmark	\checkmark	\checkmark		\checkmark		\checkmark			
S	Intermediate	\checkmark	\checkmark	\checkmark		\checkmark		\checkmark			
Sections	Standard	\checkmark	\checkmark	\checkmark		\checkmark		\checkmark			
eci	Heavy-Standard					\checkmark					
s S	Light-Heavy	\checkmark	\checkmark	\checkmark		\checkmark	\checkmark				
Cross	Heavy	\checkmark	\checkmark		\checkmark			\checkmark			
ü	Extra-Heavy	\checkmark			\checkmark						
	Extra-Heavy (thin)									\checkmark	\checkmark

Cable Tie Industry Approvals

Agency	Spec/Approval	Requirement	Products					
UL (Underwriters Laboratory	UL 62275 (File E56854)	Types 1, 11, 2, 2S, 21, 21S (Note 1)	Select PLT, BT, SG, SST, and CBR Series					
CSA (Canadian Standards Association)	CSA-C22.2 No. 62275 (File 31212)	Types 1, 11, 2, 2S, 21, 21S (Note 1)	Select PLT, BT, SG, SST, and CBR Series					
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					
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	All cable tie products					
US Military Aerospace Standard	QPL-AS23190	SAE spec AS23190	Select PLT, BT, SST, and CBR Series					

Cable Ties Product Selection Guide



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	Impact Modified 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
Color	-	Natural (other colors available)	Black	Black	Black	Natural	Black	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	350	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	8,700	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%	1.2%	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 10⁵	1 x 10⁵	1 x 10⁵	1 x 10⁵	1 x 10⁵	1 x 10⁵	1 x 10⁵	1 x 10⁵	1 x 10⁵	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 10⁵	-
Weathering Life Expectancy (Years)/UV Resistance	_	1 – 2	7 – 9	7 – 9	4 – 5	1 – 2	7 – 9	7 – 9	1 – 2	1 – 2	12 – 15	1	7 – 9	>15	>15	_	-	1	>20	7 – 9
Impact Resistance	-	0	0	•	0	0	0	•	•	Q	0	•	•	•		•	0	•	•	
Salts	-	e	•	•	•	•	•	•	•	•	•	•	•	•		•	•	•	0	•
မြို့မြို့မြို့မြို့များ မြို့မြို့ပြီး Hydrocarbons မြို့မြို့ပြီး Hydrocarbons	_	•	•	•	•	•	•	•	•	•	•	0	0	•		•	•	0	•	0
Chlorinated Hydrocarbons	_	•	•	•	•	•	•	•	•	•	Đ	0	0	•		•	•	0	•	
Acids	-	•	•	•	•					•			•			0		•		•
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	-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 – 338°F -60°C – 170°C		-76°F – 500°F -60°C – 260°C (Note 2)	-40°F – 185°F -40°C – 85°C			-40°F – 122°F -40°C – 50°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)	-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)	F -4°F or +32°F -20°C or 0°C (Note 1)
Flammability Rating	UL 94	V-2	V-2	V-2	V-2	V-2	V-2	HB	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	_	-	PASS	-
Oxygen Index	BS ISO 4589	28	28	_	28	28	28	22	34	34	_	_	_	30	52	35	_	_	_	26
Ĕ Halogen-Free	IEC 61249-2-21	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes*	No	Yes	Yes	Yes	Yes	Yes
Burning Fume Toxicity	BSS-7239	PASS	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	145°F 63°C	145°F 63°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	Med	High	High	High	Low	Med	Med	High
Product Family			Cross	Sections			1													
Product Family Pan-Ty® Cable Ties PLT		\checkmark	SM, M, I, S	LH, H, EH	1	1	1		1	\checkmark	\checkmark	\checkmark	\checkmark		\checkmark	✓	1	✓		
Super-Grip [®] Cable Ties SG		 √	M, I, S, LH	Н	v (v	v		v	v	v	v	v	v	v	v	v	Ŷ		
Dome-Top [®] Barb Ty Cable Ties BT		✓	M, I, S	LH	✓	./	\checkmark			\checkmark										
Dura-Ty [™] Cable Ties DT		•	M, I, O		•	•	v			•										
Contour-Ty [®] Cable Ties CBR		\checkmark	M, I, S, HS, LH		\checkmark	✓				\checkmark									v	
Hyper-V [™] Cable Ties HV				LH																
Sta-Strap [®] Cable Ties SST		\checkmark	M, I, S, H		\checkmark															
Elastomeric Cable Ties ERT																				✓
Double Clamp Cable Ties PLDC								\checkmark												
Wide Strap Cable Ties PLWS								√												

 Recommendation Legend

 Highest
 High
 Acceptable
 Low
 Lowest

 Image: Colspan="3">Image: Colspan="3">Image: Colspan="3">Colspan="3">Image: Colspan="3">Colspan="3">Image: Colspan="3">Colspan="3"

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: Check UL file for specific part number rating
 Note 2: Based upon UL RTI for electrical properties; mechanical without impact carries a 240° C (464° F) RTI rating

"TEFZEL is a registered trademark of The Chemours Company.

 $^{\mathrm{s}}\mathrm{HALAR}$ is a registered trademark of Ausimont USA, Inc.

*Tefzel material contains Flourine, but in accordance to IEC 61249-2-21, which calls out Chlorine and Bromine, but not Flourine, meets the definition of Halogen-Free.



infrastructure for a connected world

Cable Tie Installation Tools

Complete Your Bundling System

Panduit offers 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.

Cable Tie Tools



GTS-E

- Used with SM, M, I, and S cable ties
- Ergonomic design lowers the risk of repetitive motion injuries. Lowest activation and impact force to installer's hand



- **GTH-E**
- Used with S, HS, LH, and H cable ties
- Ergonomic design lowers the risk of repetitive motion injuries. Lowest activation and impact force to installer's hand

Pneumatic Hand Tools



- PTS
- Used with SM, M, I, and S cable ties Ergonomic design with impact resistant resin
- housing and black knob: replacement parts can be part of a scheduled maintenance program



- GS2B-E
- Used with SM, M, I, and S cable ties Metal tool with a durable powder coat finish
- Ergonomic design lowers the risk of repetitive motion injuries. Lowest activation and impact force to installer's hand



- GS4H-E
- Used with S, HS, LH, and H cable ties
- Metal tool with a durable powder coat finish
- Ergonomic design lowers the risk of repetitive motion injuries. Lowest activation and impact force to installer's hand



Used with S, HS, LH, and H cable ties Ergonomic design with impact resistant resin housing and red knob: replacement parts can be part of a scheduled maintenance program



- **GS4EH-E**
- Used with LH, H, and EH cable ties
- Metal tool with a durable powder coat finish
- Ergonomic design lowers the risk of repetitive motion injuries. Lowest activation and impact force to installer's hand



Pneumatic Tool Accessories Visit www.panduit.com for our complete line of pneumatic tool accessories

Tools



Manual Cable Tie Installation Tools

- Flush tie cut-off limits exposure to sharp edges

Automatic Cable Tie Installation Systems

- and packaging applications

- for production data and reporting

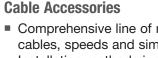
Services



Related Products







- screws, rivets and push barb

Stainless Steel Cable Ties

For more information Visit us at www.panduit.com/cableties Contact Customer Service by email: cs@panduit.com or by phone: 800-777-3300







Designed to speed installation for lower installed cost A full line of lightweight, ergonomic hand tools available Panduit leads the industry in reliability and performance

An efficient solution for high volume harnessing, assembly, fastening

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

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

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,

Accessories provide long term reliability while cable clips and clamps offer a one-piece solution to save time and reduce inventory

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