

**Premium Cable Ties  
Product Selection Guide**



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

- PLT Premium Locking 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
- PLWS Wide Strap Ties**  
Wide, thin flexible body, high heat
- PLDC Double Clamp Cable Ties**  
Secures and separates parallel hoses, tubing and wire bundles

	Product Family	PLT	SG	BT	DT	CBR	HV	SST	ERT	PLWS	PLDC
<b>Styles</b>	Locking	✓	✓	✓	✓	✓	✓	✓		✓	✓
	Releasable	✓							✓		
	Marker	✓		✓				✓			
	Clamp	✓		✓				✓			✓
	Push Mount	✓		✓							
	Specialty	✓		✓					✓		
<b>Cross Sections</b>	Miniature	✓	✓	✓		✓		✓			
	Intermediate	✓	✓	✓		✓		✓			
	Standard	✓	✓	✓		✓		✓			
	Heavy-Standard					✓					
	Light-Heavy	✓	✓	✓		✓	✓				
	Heavy	✓	✓		✓			✓			
	Extra-Heavy	✓			✓						
Extra-Heavy (thin)										✓	✓

**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/CO, 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
US Military Aerospace Standard	QPL-AS23190	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	Impact Modified Heat Stabilized Weather Resistant Nylon 6.6	Flame Retardant Nylon 6.6	Flame Retardant Nylon 6.6	Weather Resistant Nylon 612	Polypropylene	Weather Resistant Polypropylene	TEFZEL <sup>n</sup>	HALAR <sup>s</sup>	PEEK	Antimicrobial 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	Blue	Dark Blue	Black	Black
Part Number Suffix (Material Designation)	—	No Suffix	0	0	30	39	300	350	60	69	6120	109	100	76	702Y	71	96A	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	9,300	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%	0.4%	0.1%	0.1%	<0.03%	<0.05%	0.5%	1.2%	0.1%	<0.45%	0.25%
Radiation Resistance (Rads)	—	1 x 10 <sup>5</sup>	1 x 10 <sup>5</sup>	1 x 10 <sup>5</sup>	1 x 10 <sup>5</sup>	1 x 10 <sup>5</sup>	1 x 10 <sup>5</sup>	1 x 10 <sup>5</sup>	1 x 10 <sup>5</sup>	1 x 10 <sup>5</sup>	—	1 x 10 <sup>5</sup>	1 x 10 <sup>5</sup>	2 x 10 <sup>8</sup>	2 x 10 <sup>8</sup>	1 x 10 <sup>9</sup>	—	1 x 10 <sup>6</sup>	6 x 10 <sup>5</sup>	—
Weathering Life Expectancy (Years)/UV Resistance**	—	1 – 2	7 – 9	7 – 9	4 – 5	1 – 2	7 – 9	7 – 9	1 – 2	1 – 2	20	1	7 – 9	>15	>15	—	—	1	>20	7 – 9
Impact Resistance	—	○	○	●	○	○	○	●	○	○	○	●	●	●	●	●	○	●	●	●
Salts	—	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○
Hydrocarbons (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	-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 – 464°F -60°C – 240°C	-40°F – 185°F -40°C – 85°C	-40°F – 239°F -40°C – 115°C	76°F – 185°F -60°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)	-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	V-2	V-2	V-2	V-2	HB	V-0	V-0	HB	HB	HB	V-0	V-0	V-2	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
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	149°F 65°C	149°F 65°C	158°F 70°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	Low	Med	Med	Med	Med	Med	Med	High	High	High	Low	Med	Med	High

Product Family	Cross Sections																			
Premium Locking 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		EH	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
Contour-Ty® Cable Ties CBR	M, I, S, HS, LH		✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
Hyper-V™ Cable Ties HV		LH	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
Sta-Strap® Cable Ties SST	M, I, S, H		✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
Elastomeric Cable Ties ERT	M		✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
Double Clamp Cable Ties PLDC		EH	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
Wide Strap Cable Ties PLWS		EH	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓

For more information on the products listed in this guide scan here.



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:** Check UL file for specific part number rating  
<sup>n</sup>TEFZEL is a registered trademark of The Chemours Company  
<sup>s</sup>HALAR is a registered trademark of Solvay Specialty, a Division of Syvessqo  
<sup>\*\*</sup>Weather Life Expectancy is an estimated life expectancy and not a guarantee of life expectancy



## Cable Tie Installation Tools

Our hand-operated tools are among the most preferred in the industry, suitable for production, maintenance, or construction applications. These versatile tools promote worker safety, help reduce downtime, improve productivity, and provide the lowest total installed cost. Quality in design and production, along with customer service excellence, are assured with every product.

### Cable Tie Tools



**GTS-E**

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



**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 with the lowest activation and impact force to the installer's hand



**GTH-E**

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



**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 with the lowest activation and impact force to the installer's hand

### Pneumatic Hand Tools



**PTS**

- Used with SM, M, I, and S cable ties
- Ergonomic design with impact resistant resin housing.
- Replacement parts can be part of a scheduled maintenance program.



**PTH**

- Used with S, HS, LH, and H cable ties
- Ergonomic design with impact resistant resin housing
- Replacement parts can be part of a scheduled maintenance program.

## 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

### 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®**

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