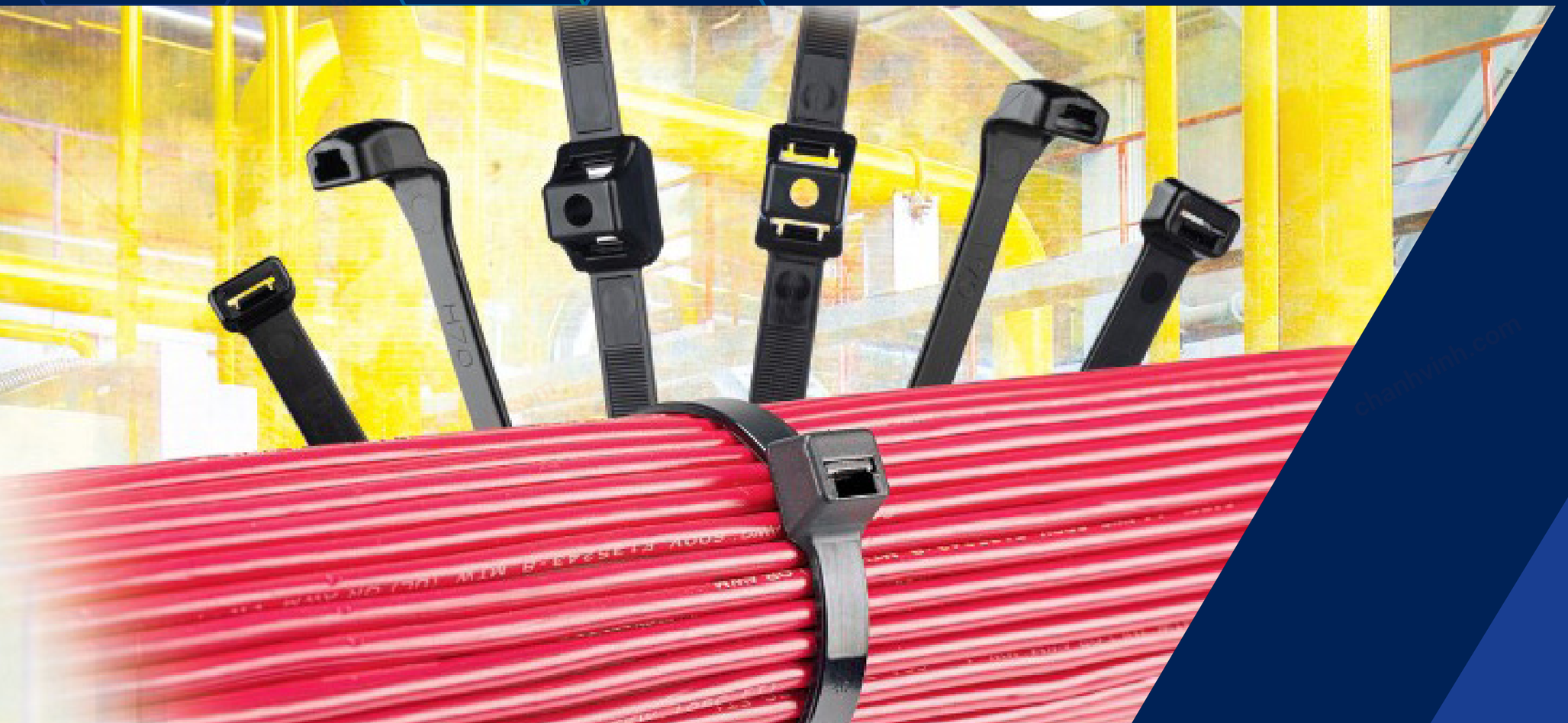
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Premium Cable Ties



PANDUIT®

Selection Guide

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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 **Premium Locking Cable Ties**
Most comprehensive product offering

SG **Vibration-resistant 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 **Contoured Cable Ties**
Low profile head, parallel-entry, outside teeth

HV **In-Line Cable Ties**
Teeth on both sides; 2-wedge locking design

SST **Through-panel Cable Mounting Cable Ties**
Two-piece design, low thread force, lightweight

ERT **Elastomeric Cable Ties**
Flexible, elastic material, UL 94V-0, releasable

PLWS **Wide Strap Cable 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
Styles	Locking	✓	✓	✓	✓	✓	✓	✓		✓	✓
	Releasable	✓							✓		
	Marker	✓		✓				✓			
	Clamp	✓		✓				✓			✓
	Push Mount	✓		✓							
	Specialty	✓		✓				✓			
Cross Sections	Miniature (M)	✓	✓	✓		✓		✓			
	Intermediate (I)	✓	✓	✓		✓		✓			
	Standard (S)	✓	✓	✓		✓		✓			
	Heavy-Standard (HS)					✓					
	Light-Heavy (LH)	✓	✓			✓	✓				
	Heavy (H)	✓			✓			✓			
	Extra-Heavy (EH)	✓			✓						
	Extra-Heavy (thin) (EH)									✓	✓

Cable Tie Industry Approvals

Agency	Spec/Approval	Requirement	Products
UL (Underwriters Laboratory)	UL 62275 (File E56854); UL 2809	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
US Military Aerospace Standard	QPL-AS23190	SAE spec AS23190	Select PLT, BT, SST, and CBR Series

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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	Impact Modified, Heat Stabilized, Weather Resistant PIR*** Recycled Nylon 6.6	Flame Retardant Nylon 6.6		Weather Resistant Nylon 6.12	Polypropylene	Weather Resistant Polypropylene	TEFZELn	HALARs	PEEK	Antimicrobial Metal Detectable Nylon	Metal Detectable Polypropylene	DT Weather Resistant Acetal	ERT Flame Retardant TPU
	Color		–	Natural	Black	Black	Black	Natural	Black	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	360	60	69	6120	109	100	76	702Y	71	96A	186	N/A	20
Mechanical Properties	**Tensile @ Yield @ 73°F (psi)**		ISO 527 4°F (-20°C)	12,000		9,700	12,000			8,700	8,412	11,000		9,300	4,100		7,500	7,000	15,200	–	–	6,500	4,300
Mechanical Properties	**Water Absorption (24 Hours)**		ASTM D570	1.2%								1.1%		0.4%	0.1%	0.1%	<0.03%	<0.05%	0.5%	1.2%	0.1%	<0.45%	0.25%
Mechanical Properties	**Radiation Resistance (Rads)**		–	1×10^5										–	1×10^6		2×10^8	2×10^8	1×10^9	–	1×10^6	6×10^5	–
Mechanical Properties	**Weathering Life Expectancy (Years)/UV Resistance****		–	1 – 2	7 – 9		4 – 5	1 – 2	7 – 9		10	1 – 2		20	1	7 – 9	>15		–	–	1	>20	7 – 9
Mechanical Properties	**Impact Resistance**		–	○	○	◒	○	○	○	◒	◒	◒	◒	○	◒	◒	●	●	●	○	◒	◒	●
Chemical Resistance	**Salts**		–	◒	◒	◒	◒	◒	◒	◒	◒	◒	◒	◒	●	●	●	●	●	◒	●	○	●
Chemical Resistance	**Hydrocarbons (Oil, Lubricants)**		–	●	●	●	●	●	●	●	●	●	●	●	○	○	●	●	●	●	○	●	○
Chemical Resistance	**Chlorinated Hydrocarbons**		–	◒	◒	◒	◒	◒	◒	◒	◒	◒	◒	◒	○	○	●	●	●	◒	○	◒	●
Chemical Resistance	**Acids**		–	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	○	●	●	●	◒
Chemical Resistance	**Bases**		–	◒	◒	◒	◒	◒	◒	◒	◒	◒	◒	◒	●	●	●	●	●	◒	●	●	◒
Chemical Resistance	**Acid Rain**		–	◒	◒	◒	◒	◒	◒	◒	◒	◒	◒	◒	●	●	●	●	◒	◒	●	◒	◒
Thermal Properties	**Continuous Use Temperature Range**		UL 746B	-76°F – 185°F (-60°C – 85°C)			-76°F – 239°F (-60°C – 115°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 – 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)
Thermal Properties	**Minimum Installation Temperature**		UL 62275	-4°F (-20°C) or 32°F (0°C) **Note 1**							-4°F (-20°C)	-4°F (-20°C) or 32°F (0°C) **Note 1**		32°F (0°C)	-4°F (-20°C) or 32°F (0°C) **Note 1**								
Thermal Properties	**Flammability Rating**		UL 94	V-2						HB		V-0		HB			V-0		V-2			HB		V-0
Thermal Properties	**Low Smoke**		ASTM E662	PASS										–	–	–	–	–	PASS	–	–	PASS	–
Thermal Properties	**Oxygen Index**		BS ISO 4589	28	–		28			22	–	34		–	–	–	30	52	35	–	–	–	26
Thermal Properties	**Halogen-Free**		IEC 61249-2-21	Yes														No	Yes				
Thermal Properties	**Burning Fume Toxicity**		BSS-7239	PASS										–	–	–	–	–	–	–	–	–	–
Thermal Properties	**Heat Deflection Temperature @ 1.8 Mpa**		ASTM D648 ISO 75 -1/-2	158°F (70°C)		145°F (63°C)	158°F (70°C)			145°F (63°C)	151°F (66°C)	149°F (65°C)		158°F (70°C)	122°F (50°C)		–	149°F (65°C)	313°F (156°C)	–	–	147°F (64°C)	–
	RELATIVE PRICE		–	Low					Low-Med									High		Low	Med		High
Material Availability	**Product Family/Cross Section Widths**																						
Material Availability	**Premium Locking Cable Ties**	PLT	–	All Widths	SM, M, I, S	LH, H, EH	All Widths			–	All Widths			All Widths (except for SM and EH)	All Widths							–	–
Material Availability	**Vibration-Resistant Cable Ties**	SG	–	All Widths	M, I, S, LH	H	All Widths	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–
Material Availability	**Dome-Top® Barb Ty Cable Ties**	BT	–	All Widths	M, I, S	LH	All Widths			–	–	–	M, I, S, LH	S & LH	–	–	–	–	–	–	–	–	–
Material Availability	**Dura-Ty™ Cable Ties**	DT	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	EH	–
Material Availability	**Contoured Cable Ties**	CBR	–	All Widths	M, I, S, HS, LH	–	All Widths		–	–	–	–	S	–	–	–	–	–	–	–	–	–	–
Material Availability	**Hyper-V™ In-Line Cable Ties**	HV	–	–	–	LH			–	–	–	–	–	–	–	–	–	–	–	–	–	–	–
Material Availability	**Through-Panel Cable Mounting Cable Ties**	SST	–	All Widths	M, I, S, H	–	All Widths		–	–	–	–	–	–	–	–	–	–	–	–	–	–	–
Material Availability	**Elastomeric Cable Ties**	ERT	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	M
Material Availability	**Double Clamp Cable Ties**	PLDC	–	–	–	–	–	–	–	EH		–	–	–	–	–	–	–	–	–	–	–	–
Material Availability	**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
●	◒	○	◒	●

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
[n]TEFZEL is a registered trademark of The Chemours Company
[1]HALAR is a registered trademark of Solvay Specialty, a Division of Syvensqo
**Weather Life Expectancy is an estimated life expectancy and not a guarantee of life expectancy
*** PIR: Post-Industrial Recycled

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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, and improve productivity for improved installation cost and efficiency. Quality in design and production.

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



GS2B-E

- Used with SM, M, I, and S cable ties
- Metal tool with durable powder coat finish
- Ergonomic design lowers the risk of repetitive motion injuries through improved activation and force impact to the installer



GTH-E

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



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 through improved activation and force impact to the installer



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 through improved activation and force impact to the installer



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

- Optimized installation efficiency and reliability
- Flush tie cut-off limits exposure to sharp edges
- Full line of lightweight, ergonomic hand tools models to fit all cable tie cross sections
- Designed for 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 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 designed for reliability and performance



Stainless Steel Cable Ties

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



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