imall

Chipsmall Limited consists of a professional team with an average of over 10 year of expertise in the distribution of electronic components. Based in Hongkong, we have already established firm and mutual-benefit business relationships with customers from, Europe, America and south Asia, supplying obsolete and hard-to-find components to meet their specific needs.

With the principle of "Quality Parts, Customers Priority, Honest Operation, and Considerate Service", our business mainly focus on the distribution of electronic components. Line cards we deal with include Microchip, ALPS, ROHM, Xilinx, Pulse, ON, Everlight and Freescale. Main products comprise IC, Modules, Potentiometer, IC Socket, Relay, Connector. Our parts cover such applications as commercial, industrial, and automotives areas.

We are looking forward to setting up business relationship with you and hope to provide you with the best service and solution. Let us make a better world for our industry!



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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

							Pau		
	Product Family	PLT	SG	BT	DT	CBR	HV	SST	ERT
	Locking	\checkmark							
Styles	Releasable	\checkmark							\checkmark
	Marker	\checkmark		\checkmark				\checkmark	
	Clamp	\checkmark		\checkmark				\checkmark	
	Push Mount	\checkmark		\checkmark					
	Specialty	\checkmark		\checkmark				\checkmark	
	Miniature	\checkmark	\checkmark	\checkmark		\checkmark		\checkmark	\checkmark
) uo	Intermediate	\checkmark	\checkmark	\checkmark		\checkmark		\checkmark	
ss Sections	Standard	\checkmark	\checkmark	\checkmark		\checkmark		\checkmark	
	Heavy-Standard					\checkmark			
	Light-Heavy	\checkmark	√	√		\checkmark	\checkmark		
Cross	Heavy	\checkmark	\checkmark		\checkmark			\checkmark	
	Extra-Heavy	\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

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 Nvlon 6.6
	Color	-	Natural (other colors available)	Black	Black	Black	Natural	Black	Black
	Part Number Suffix (Material Designation)	_	No Suffix	0	0	30	39	300	60
	Tensile @ Yield @ 73°F (psi)	ISO 527	12,000	12,000	9,700	12,000	12,000	12,000	11,000
Mechanical	Water Absorption (24 Hours) ASTM D570		1.2%	1.2%	1.2%	1.2%	1.2%	1.2%	1.1%
chai	Radiation Resistance (Rads)	_	1 x 10⁵	1 x 10⁵	1 x 10⁵	1 x 10⁵	1 x 10⁵	1 x 10⁵	1 x 10⁵
₹ e	Weathering Life Expectancy (Years)/UV Resistance	_	1 – 2	7 – 9	7 – 9	4 – 5	1 – 2	7 – 9	1 – 2
	Impact Resistance –			0	—		0		
	Salts	_							
Chemical Resistance	Hydrocarbons (Oil, Lubricants)	-	•	•	•	•	•	•	•
ieni ieni	Chlorinated Hydrocarbons	_	—		-		-		
-S	Acids	-							
	Bases	_	-	-	-		8		
	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 – 212°F -60°C – 100°C
Properties	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)
obe	Flammability Rating	UL 94	V-2	V-2	HB	V-2	V-2	V-2	V-0
al Pr	Low Smoke ASTM E66		PASS	PASS	PASS	PASS	PASS	PASS	PASS
Therm	Oxygen Index BS ISO 4589		28	28	-	28	28	28	34
Ê	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 DeflectionASTM ITemperature @ 1.8 MpaISO 75		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
_	Relative Price -		Low	Low	Low	Low	Low	Med	Med
					1				
	Product Family	Product Family							
	Pan-Ty [®] Cable Ties PLT		3	SM, M, I, S	LH, H, EH	3	3	3	3
litv	Super-Grip [®] Cable Ties SG		3	M, I, S, LH	Н	3			
Availability	Dome-Top [®] Barb Ty Cable TiesBT		3	M, I, S	LH	3	3	3	
	Dura-Ty [™] Cable Ties DT								
Materia	Contour-Ty® Cable Ties CBR		3	M, I, S, HS, LH		3	3		
Na Na			0	M, I, S, H	LH	0			
	Sta-Strap® Cable Ties SST Elastomeric Cable Ties ERT		3	IVI, I, O, Π		3			
	Recommendation Legend		Check mark indicates material av	ailability in that pro	oduct family for	all cross section	s.		
н	ighest High Acceptable Low	Lowest	Cross Sections: SM = Subminiat LH = Light-Heav	ure, M = Miniature v. H = Heavy. EH		e, S = Standard,	HS = Heavy-Sta	indard,	

LH = Light-Heavy, H = Heavy, EH = Extra-Heavy

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
Natural Ivory	Black	Green	Black	Aqua Blue	Maroon	Translucent Brown	Lt. Blue	Dark Blue	Black	Black
69	120	109	100	76	702Y	71	86	186	N/A	20
11,000	6,700	4,100	4,100	7,500	7,000	15,200	-	-	6,500	4,300
1.1%	0.3%	0.1%	0.1%	<0.03%	<0.05%	0.5%	1.2%	0.1%	<0.45%	0.25%
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	-
1 – 2	12 – 15	1	7 – 9	>15	>15	-	-	1	>20	7 – 9
	D	—	—				D	—		
	8									
			D	•		•	•	D		D
8	-	0				•	-			
						0				
8	-					•	-			
	8					=				
-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 – 500°F -60°C – 260°C (Note 2)	-76°F – 185°F -60°C – 85°C	-76°F – 239°F -60°C – 115°C	76°F – 185°F -60°C – 85°C	-40°F – 122°F -40°C – 50°C
-4°F or +32°F	-4°F or +32°F	-4°F or +32°F	-4°F or +32°F	-4°F or +32°F		-4°F or +32°F	-4°F or +32°F	-4°F or +32°F	-4°F or +32°F	
	-20°C or 0°C		-20°C or 0°C	-20°C or 0°C		-20°C or 0°C	-20°C or 0°C	-20°C or 0°C	-20°C or 0°C	
(Note 1) V-0	(Note 1) HB	(Note 1) HB	(Note 1) HB	(Note 1) V-0	(Note 1) V-0	(Note 1) V-0	(Note 1) HB	(Note 1) HB	(Note 1) HB	(Note 1) V-0
PASS	_	-	-	-	_	PASS	_	-	PASS	-
34	_	_	_	30	52	35	_	_	_	26
Yes	Yes	Yes	Yes	No	No	Yes	Yes	Yes	Yes	Yes
PASS	_	_	_	_	_	_	_	_	_	_
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	-
Med	Med	Med	Med	High	High	High	Low	Med	Med	High
3	3	3	3	3	3	3	3	3		
3										
									3	
3										
										3

^sHALAR is a registered trademark of Ausimont USA, Inc.

Cable Tie Installation Tools

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



GIN-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



- 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

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



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

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