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 Metal locking barb; infinite adjustability	SST	Sta-Strap [®] Cable Ties Two-piece design, low thread force, lightweight
PLWS	Pan-Ty [®] Wide Strap Cable Ties Ideal for Heavy Duty applications	ERT	Elastomeric Cable Ties Flexible, elastic material, UL 94V-0, releasable
DT	Dura-Ty® Cable Ties Acetal material; 20+ years outdoor service life	PLDC	Pan-Ty®Double Clamp Cable Ties Ideal for Heavy Duty application

	Product Family	PLT	SG	BT	DT	CBR	HV	SST	ERT	PLWS	PLDC
	Locking	\checkmark		\checkmark	\checkmark						
	Releasable	\checkmark							\checkmark		
Styles	Marker	\checkmark		\checkmark				\checkmark			
Sty	Clamp	\checkmark		\checkmark				\checkmark			
	Push Mount	\checkmark		\checkmark							
	Specialty	\checkmark		\checkmark				\checkmark			
	Miniature	\checkmark	\checkmark	\checkmark		\checkmark		\checkmark			
SL	Intermediate	\checkmark	\checkmark	\checkmark		\checkmark		\checkmark			
tior	Standard	\checkmark	\checkmark	\checkmark		\checkmark		\checkmark			
Cross Sections	Heavy-Standard					\checkmark					
S	Light-Heavy	\checkmark	\checkmark	\checkmark		\checkmark	\checkmark				
SO.	Heavy	\checkmark	\checkmark		\checkmark			\checkmark			
ũ	Extra-Heavy	\checkmark			\checkmark						
	Extra-Heavy (thin)									\checkmark	\checkmark

Cable Tie Industry Approvals

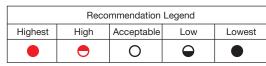
Agency	Spec/Approval	Requirement	Products
UL (Underwriters Laboratory	UL 62275 (File E56854)	Types 1, 11, 2, 2S, 21, 21S (Note 1)	Select PLT, BT, SG, SST, and CBR Series
CSA (Canadian Standards Association)	CSA-C22.2 No. 62275 (File 31212)	Types 1, 11, 2, 2S, 21, 21S (Note 1)	Select PLT, BT, SG, SST, 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

Color	0 12,000 1.2% 1 x 10 ⁵ 7 - 9 0 0 0 0 0 0 0 0 0 0 0 0 0	0 0 000 9,700 2% 1.2% 10 ⁵ 1 x 10 ⁵ - 9 7 - 9 0 0	-60°C - 115°C -4°F or +32°F -20°C or 0°C (Note 1)	-60°C – 115°C -4°F or +32°F	-60°C – 115°C -4°F or +32°F -20°C or 0°C	Black 350 8,700 1.2% 1 x 10 ⁵ 7 - 9 ● ● ● ● • • • • • • • • • • • • •	-60°C – 100°C	Natural Ivory 69 11,000 1.1% 1 x 10 ⁵ 1 - 2 ● 0 0 0 0 1 -76°F - 212°F -60°C - 100°C -4°F or +32°F	Black 120 6,700 0.3% 3.5 x 10 ⁶ 12 - 15 O O O O O O O O	-60°C – 115°C	Black 100 4,100 0.1% 1 x 10 ⁶ 7 - 9 0 0 0 0 0 0 0 0 0 0 0 0 0	Aqua Blue 76 7,500 2 x 10 ⁸ >15 • • • • • • • • • • • • • • • • • • •		Translucent Brown 71 15,200 0.5% 1 x 10° - - - - - - - - - - - - - - - - - - -	Lt. Blue 86 - 1.2% - 0 0 0 0 0 0 0 - 40°F - 185°F -40°C - 85°C	Polypropylene Dark Blue 186 	-60°C – 85°C	
Part Number Suffix (Material Designation)-No Suffix (Material Designation)Tensile @ Yield @ 73°F (psi)ISO 52712,000Water Absorption (24 Hours)ASTM D5701.2%Radiation Resistance (Rads)-1 x 105Weathering Life Expectancy (Years)/UV Resistance-0Matter Resistance-0Salts-0Hydrocarbons (Oil, Lubricants)-0Acids-0Bases-0Acid Rain-0Continuous Use Temperature RangeUL 746B-76°F - 188 -60°C - 85Minimum Installation Temperature Low SmokeUL 62275-4°F or +3 -20°C or 0 (Note 1)Flammability RatingUL 94V-2Low SmokeASTM E662PASSOxygen IndexBS ISO 458928Heat Deflection Temperature @ 1.8 MpaASTM D648 ISO 75 -1/-2158°F 70°CProduct FamilyLow	0 12,000 1.2% 1 x 10 ⁵ 7 - 9 0 0 0 0 0 0 0 0 0 0 0 0 0	000 9,700 2% 1.2% 10 ⁵ 1 x 10 ⁵ -9 7 - 9 0 • • •	12,000 1.2% 1 x 10 ⁵ 4 - 5 0 0 0 0 0 0 0 0 0 0 0 0 0	12,000 1.2% 1 x 10 ⁵ 1 - 2 O O O O -76°F - 239°F -60°C - 115°C -4°F or +32°F -20°C or 0°C	12,000 1.2% 1 x 10 ⁵ 7 - 9 O ● <th>8,700 1.2% 1 x 10⁵ 7 - 9 0 0 0 0 -76°F - 239°F -60°C - 115°C -4°F or +32°F</th> <th>11,000 1.1% 1 x 10⁵ 1 − 2</th> <th>11,000 1.1% 1 x 10⁵ 1 − 2</th> <th>6,700 0.3% 3.5 x 10⁶ 12 - 15 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0</th> <th>4,100 0.1% 1 x 10⁶ 1 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0</th> <th>4,100 0.1% 1 x 10⁶ 7 - 9 ● ● ● ● ● ● ● ● ● ● ● ● ● ● ● ● ● ● ●</th> <th>7,500 <0.03% 2 x 10⁸ >15 • • • • • • • • • • • • • • • • • • •</th> <th>7,000 <0.05% 2 x 10⁸ >15 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0</th> <th>15,200 0.5% 1 x 10⁹ – – – – – – – – – – – – – – – – – – –</th> <th></th> <th></th> <th>6,500 <0.45% 6 x 10⁵ >20 ○ ○ ○ ○ ○ ○ ○ ○ ○ ○ ○ ○ ○ ○ ○ ○ ○ ○ ○</th> <th>4,300 0.25% 7 - 9 ● ● 0 ● 0 ● ● 0 ● ● ● ● ● ● ● ● ● ● ●</th>	8,700 1.2% 1 x 10 ⁵ 7 - 9 0 0 0 0 -76°F - 239°F -60°C - 115°C -4°F or +32°F	11,000 1.1% 1 x 10 ⁵ 1 − 2	11,000 1.1% 1 x 10 ⁵ 1 − 2	6,700 0.3% 3.5 x 10 ⁶ 12 - 15 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	4,100 0.1% 1 x 10 ⁶ 1 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	4,100 0.1% 1 x 10 ⁶ 7 - 9 ● ● ● ● ● ● ● ● ● ● ● ● ● ● ● ● ● ● ●	7,500 <0.03% 2 x 10 ⁸ >15 • • • • • • • • • • • • • • • • • • •	7,000 <0.05% 2 x 10 ⁸ >15 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	15,200 0.5% 1 x 10 ⁹ – – – – – – – – – – – – – – – – – – –			6,500 <0.45% 6 x 10 ⁵ >20 ○ ○ ○ ○ ○ ○ ○ ○ ○ ○ ○ ○ ○ ○ ○ ○ ○ ○ ○	4,300 0.25% 7 - 9 ● ● 0 ● 0 ● ● 0 ● ● ● ● ● ● ● ● ● ● ●
Water Absorption (24 Hours) ASTM D570 1.2% Radiation Resistance (Rads) - 1 x 10 ⁵ Weathering Life Expectancy (Years)/UV Resistance - 0 Mage - 0 Salts - 0 Hydrocarbons (Oil, Lubricants) - 0 Chlorinated Hydrocarbons - 0 Acids - 0 Bases - 0 Acids - 0 Bases - 0 Acid Rain - 0 Continuous Use Temperature Range UL 746B -76°F - 188 -60°C - 85 Minimum Installation Temperature UL 62275 -4°F or +3 -20°C or 0 (Note 1) Flammability Rating UL 94 V-2 Low Smoke ASTM E662 PASS Oxygen Index BS ISO 4589 28 Heat Deflection Temperature @ 1.8 Mpa ASTM D648 158°F Temperature @ 1.8 Mpa ISO 75 -1/-2 70°C Relative Price - Low	1.2% 1.2% 1 x 10 ⁵ 7 − 9 0 0 0 0 0 0 0 0 0 0 0 0 0	2% 1.2% 10 ⁵ 1 x 10 ⁵ -9 7 - 9 0 • <th>1.2% 1 x 10⁵ 4 - 5 ○ ● ● ● ● ● ● ● ●</th> <th>1.2% 1 x 10⁵ 1 − 2 O O O O O O O O O O O O O</th> <th>1.2% 1 × 10⁵ 7 − 9 0 0 0 0 0 0 0 0 0 0 0 0 0</th> <th>1.2% 1 x 10⁵ 7 - 9 ● ● ● • • • • • • • • • • • • •</th> <th>1.1% 1 × 10⁵ 1 − 2</th> <th>1.1% 1 x 10⁵ 1 − 2</th> <th>0.3% 3.5 x 10⁶ 12 - 15 0 0 0 0 0 -76°F - 194°F -60°C - 90°C</th> <th>0.1% 1 x 10⁶ 1 0 0 0 0 0 0 0 0 0 0 0 0 0</th> <th>0.1% 1 x 10⁶ 7 - 9 0 0 0 0 0 0 0 0 0 0 0 0 0</th> <th><0.03% 2 x 10⁸ >15 • • • • • • • • • • • • • • • • • • •</th> <th><0.05% 2 x 10⁸ >15 0 0 0 0 0 0 0 0 0 0 0 0 0</th> <th>0.5% 1 x 10° </th> <th></th> <th>0.1% 1 x 10⁶ 1 0 0 0 0 0 0 0 0 0 0 0 0 0</th> <th><0.45% 6 x 10⁵ >20 • • • • • • • • • • • • • • • • • • •</th> <th>0.25% </th>	1.2% 1 x 10 ⁵ 4 - 5 ○ ● ● ● ● ● ● ● ●	1.2% 1 x 10 ⁵ 1 − 2 O O O O O O O O O O O O O	1.2% 1 × 10 ⁵ 7 − 9 0 0 0 0 0 0 0 0 0 0 0 0 0	1.2% 1 x 10 ⁵ 7 - 9 ● ● ● • • • • • • • • • • • • •	1.1% 1 × 10 ⁵ 1 − 2	1.1% 1 x 10 ⁵ 1 − 2	0.3% 3.5 x 10 ⁶ 12 - 15 0 0 0 0 0 -76°F - 194°F -60°C - 90°C	0.1% 1 x 10 ⁶ 1 0 0 0 0 0 0 0 0 0 0 0 0 0	0.1% 1 x 10 ⁶ 7 - 9 0 0 0 0 0 0 0 0 0 0 0 0 0	<0.03% 2 x 10 ⁸ >15 • • • • • • • • • • • • • • • • • • •	<0.05% 2 x 10 ⁸ >15 0 0 0 0 0 0 0 0 0 0 0 0 0	0.5% 1 x 10° 		0.1% 1 x 10 ⁶ 1 0 0 0 0 0 0 0 0 0 0 0 0 0	<0.45% 6 x 10 ⁵ >20 • • • • • • • • • • • • • • • • • • •	0.25%
Radiation Resistance (Rads) - 1 x 10 ⁵ Radiation Resistance (Rads) - 1 x 10 ⁵ Weathering Life Expectancy (Years)/UV Resistance - 0 Impact Resistance - O Salts - O Hydrocarbons (Oil, Lubricants) - O Chlorinated Hydrocarbons - O Acids - O Bases - O Acid Rain - O Continuous Use Temperature Range UL 746B -76°F - 18 -60°C - 85 Minimum Installation Temperature UL 62275 -4°F or +3 -20°C or 0 (Note 1) Flammability Rating UL 94 V-2 Low Smoke ASTM E662 PASS Oxygen Index BS ISO 4589 28 Halogen-Free IEC 61249-2-21 Yes Burning Fume Toxicity BSS-7239 PASS Heat Deflection Temperature @ 1.8 Mpa ISO 75 -1/-2 70°C Relative Price - Low	1 x 10 ⁵ 7 - 9 0	10 ⁵ 1 x 10 ⁵ - 9 7 - 9 0 •	1 x 10 ⁵ 4 - 5	1 x 10 ⁵ 1 − 2 0 0 0 0 0 0 0 0 0 0 0 0 0	1 x 10 ⁵ 7 - 9 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	1 x 10 ⁵ 7 - 9 ● ● ● ● ● ● ● ● ● ● ● ● ● ● ● ● ● ● ●	1 x 10 ⁵ 1 − 2	1 x 10 ⁵ 1 − 2 ● ● ● ● ● ● ● ● ● ● ● ● ● ● ● ● ● ● ●	3.5 x 10 ⁶ 12 - 15 ○ ○ ○ ○ ○ ○ ○ ○ ○ ○ ○ ○ ○ ○ ○ ○ ○ ○ ○	1 x 10 ⁶ 1 0 0 0 -76°F - 239°F -60°C - 115°C	1 x 10 ⁶ 7 - 9 0 0 0 0 0 -76°F - 239°F	2 x 10 ⁸ >15 • • • • • • • • • • • • • • • • •	2 x 10 ⁸ >15 • • • • • • • • • • • • • • • •	1 x 10° 		1 x 10 ⁶ 1 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	6 x 10 ⁵ >20 ○ ○ ○ ○ ○ ○ ○ ○ ○ ○ ○ ○ ○ ○ ○ ○ ○ ○ ○	 7 - 9 • • • • • • • • • • • • • • • • • • •
Weathering Life Expectancy (Years)/UV Resistance - 1 - 2 Impact Resistance - O Salts - O Hydrocarbons (Oil, Lubricants) - O Chlorinated Hydrocarbons - O Acids - O Bases - O Acid Rain - O Continuous Use Temperature Range UL 746B -76°F - 188 -60°C - 85 Minimum Installation Temperature UL 62275 -4°F or +3 -20°C or 0 (Note 1) Flammability Rating UL 94 V-2 Low Smoke ASTM E662 PASS Oxygen Index BS ISO 4589 28 Halogen-Free IEC 61249-2-21 Yes Burning Fume Toxicity BSS-7239 PASS Heat Deflection Temperature @ 1.8 Mpa ISO 75 -1/-2 70°C Relative Price - Low	7 - 9 7 - 9 0 0 0 0 0 0 0 0 0 0 0 0 0	- 9 7 - 9 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	4 - 5 ○ • • • • • • • • • • • • •	1 - 2 ○ ○ 0 0 0 0 -76°F - 239°F -60°C - 115°C -4°F or +32°F -20°C or 0°C	7 - 9 0 0 0 0 0 0 0 0 0 0 0 0 0	7 - 9 ● ● ● 0 0 -76°F - 239°F -60°C - 115°C -4°F or +32°F	1 - 2 ● • • • • • • • • • • • • •	1 - 2 ● ● ● • • • • • • • • • • • • •	12 - 15 ○ ○ ○ ○ ○ -76°F - 194°F -60°C - 90°C	1 • • • • • • • • • • • • •	7 - 9 0 0 0 0 -76°F - 239°F	>15 • • • • • • • • • • • • •	>15 • • • • • • • • • • • • •		- 0 0 0 0 0 0 0 -40°F - 185°F -40°C - 85°C	1	>20 © 0 0 0 0 0 0 0 0 0 0 0 0 0	7 - 9 • • • • • • • • • • • • •
Years)/UV Resistance - O Impact Resistance - O Salts - • Hydrocarbons (Oil, Lubricants) - • Chlorinated Hydrocarbons - • Acids - • Bases - • Acid Rain - • Continuous Use Temperature Range UL 746B -76°F - 188 -60°C - 85 Minimum Installation Temperature UL 62275 -4°F or +3 -20°C or 0 (Note 1) Flammability Rating UL 94 V-2 Low Smoke ASTM E662 PASS Oxygen Index BS ISO 4589 28 Halogen-Free IEC 61249-2-21 Yes Burning Fume Toxicity BSS-7239 PASS Heat Deflection Temperature @ 1.8 Mpa IS0 75 -1/-2 70°C Relative Price - Low	O ●	O O O <td>O ●</td> <td>● ● ● ● ● ● ● ● ● ● ● ● ● ● ● ● ● ● ●</td> <td>O ●</td> <td>● ● ● ● ● ● ● ● ● ● ● ● ● ● ● ● ● ● ●</td> <td>● ● ● ● ● ● ● ● ● ● ● ● ● ● ● ● ● ● ●</td> <td>● ● ● ● ● ● ● ● ● ● ● ● ● ● ● ● ● ● ●</td> <td></td> <td></td> <td>● ● ● ● ● ● ● ● ● ● ● ● ● ● ● ● ● ●</td> <td>• • • • • • • • • • • • • • •</td> <td></td> <td>● ● ● ● ● ● ● ● ● ● ● ● ● ● ● ● ● ● ●</td> <td>O ● ● ● ● ● ● ● ● ● ● ● ● ● ● ● ● ● ● ●</td> <td>● ● ● -40°F - 239°F -40°C - 115°C</td> <td>● ● ● ● ● ● ● ● ● ● ● ● ● ● ● ● ● ● ●</td> <td></td>	O ●	● ● ● ● ● ● ● ● ● ● ● ● ● ● ● ● ● ● ●	O ●	● ● ● ● ● ● ● ● ● ● ● ● ● ● ● ● ● ● ●	● ● ● ● ● ● ● ● ● ● ● ● ● ● ● ● ● ● ●	● ● ● ● ● ● ● ● ● ● ● ● ● ● ● ● ● ● ●			● ● ● ● ● ● ● ● ● ● ● ● ● ● ● ● ● ●	• • • • • • • • • • • • • • •		● ● ● ● ● ● ● ● ● ● ● ● ● ● ● ● ● ● ●	O ● ● ● ● ● ● ● ● ● ● ● ● ● ● ● ● ● ● ●	● ● ● -40°F - 239°F -40°C - 115°C	● ● ● ● ● ● ● ● ● ● ● ● ● ● ● ● ● ● ●	
Salts – • Hydrocarbons (Oil, Lubricants) – • Chlorinated Hydrocarbons – • Acids – • Bases – • Acids – • Bases – • Acid Rain – • Continuous Use Temperature Range UL 746B -76°F - 188 -60°C - 85 Minimum Installation Temperature UL 62275 -4°F or +3 -20°C or 0 (Note 1) Flammability Rating UL 94 V-2 Low Smoke ASTM E662 PASS Oxygen Index BS ISO 4589 28 Halogen-Free IEC 61249-2-21 Yes Burning Fume Toxicity BSS-7239 PASS Heat Deflection Temperature @ 1.8 Mpa IS0 75 -1/-2 70°C Relative Price – Low			● ● ● ● ● • 0°F - 239°F -60°C - 115°C -4°F or +32°F -20°C or 0°C (Note 1)	● ● ● ● ● -76°F - 239°F -60°C - 115°C -4°F or +32°F -20°C or 0°C		● ● ● ● ● ● ● ● ● ● ● ● ● ● ● ● ● ● ●	● ● ● ● ● ● ● ● ● ● ● ● ● ● ● ● ● ● ●	● ● ● ● -76°F - 212°F -60°C - 100°C	● ● ● ● ● ● ● ● ● ● ● ● ● ● ● ● ● ● ●	● ● ● ● ● ● ● ● ● ● ● ● ● ● ● ● ● ● ●	• • • • • • • • • • • • • •	• • • • • • • • • • • • •	• • • • • • • • • • • • • • • • • •	-76°F - 500°F -60°C - 260°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	0 • • • • • • • • • • • • • • • • • • •
Hydrocarbons (Oil, Lubricants) - • Chlorinated Hydrocarbons - • Acids - • Bases - • Acids - • Bases - • Acid Rain - • Continuous Use Temperature Range UL 746B -76°F - 188 -60°C - 85 Minimum Installation Temperature UL 62275 -4°F or +3 -20°C or 0 (Note 1) Flammability Rating UL 94 V-2 Low Smoke ASTM E662 PASS Oxygen Index BS ISO 4589 28 Halogen-Free IEC 61249-2-21 Yes Burning Fume Toxicity BSS-7239 PASS Heat Deflection Temperature @ 1.8 Mpa IS0 75 -1/-2 70°C Relative Price - Low			• • • • • • • • • • • • • • • • • • •	• • • • • • • • • • • • • • • • • • •	• • • • • • • • • • • • • • • • • • •	• • • • • • • • • • • • • • • • • • •	• • • • • • • • • • • • • • • • • • •	● ● ● ● -76°F - 212°F -60°C - 100°C	• • • • • • • • • • • • • • • • • • •	O O ● ● -76°F - 239°F -60°C - 115°C	O ● ● -76°F - 239°F	• • • • • • • •	• • • • • • • • • • • • • • • •	-76°F - 500°F -60°C - 260°C	• • • • • • • • • • • • • • • • • • •	O O ● -40°F - 239°F -40°C - 115°C	● ● ● 76°F - 185°F -60°C - 85°C	0 • • • • • • • • • • • • • • • • • • •
Total Chiorinated Hydrocarbons-Chiorinated Hydrocarbons-Acids-Bases-Acid Rain-Acid Rain-Continuous Use Temperature RangeUL 746BMinimum Installation TemperatureUL 62275Hamability RatingUL 94UL 94V-2Low SmokeASTM E662Oxygen IndexBS ISO 4589Burning Fume ToxicityBSS-7239PASSHeat Deflection Temperature @ 1.8 MpaISO 75 -1/-2Product Family			● ● -76°F - 239°F -60°C - 115°C -4°F or +32°F -20°C or 0°C (Note 1)	• • • •60°C - 239°F •60°C - 115°C -4°F or +32°F -20°C or 0°C	● ● -76°F - 239°F -60°C - 115°C -4°F or +32°F -20°C or 0°C	● -76°F - 239°F -60°C - 115°C -4°F or +32°F	-76°F - 212°F -60°C - 100°C -4°F or +32°F	● ● ● -76°F - 212°F -60°C - 100°C	● ● ● ● -76°F - 194°F -60°C - 90°C		O ● ● -76°F - 239°F	-76°F – 338°F	• • • • • • • • • •	-76°F - 500°F -60°C - 260°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	• • • • • • • • • • • • • • • • • • •
Acids – ● Bases – ● Acid Rain – ● Acid Rain – ● Acid Rain – ● Continuous Use Temperature Range UL 746B -76°F – 188 -60°C – 85 Minimum Installation Temperature UL 62275 -4°F or +3 -20°C or 0 (Note 1) Flammability Rating UL 94 V-2 Low Smoke ASTM E662 PASS Oxygen Index BS ISO 4589 28 Halogen-Free IEC 61249-2-21 Yes Burning Fume Toxicity BSS-7239 PASS Heat Deflection Temperature @ 1.8 Mpa ISO 75 -1/-2 70°C Relative Price – Low		- 185°F - 85°C - 76°F - 185°F - 60°C - 85°C or +32°F or 0°C te 1) - 4°F or +32°F - 20°C or 0°C (Note 1)	● ● -76°F - 239°F -60°C - 115°C -4°F or +32°F -20°C or 0°C (Note 1)	• • • •60°C - 239°F •60°C - 115°C -4°F or +32°F -20°C or 0°C	● ● -76°F - 239°F -60°C - 115°C -4°F or +32°F -20°C or 0°C	● -76°F - 239°F -60°C - 115°C -4°F or +32°F	-76°F - 212°F -60°C - 100°C -4°F or +32°F	-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	-76°F – 338°F	• • • • • • • • • •	-76°F - 500°F -60°C - 260°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	
Bases – • Acid Rain – • Acid Rain – • Continuous Use Temperature Range UL 746B -76°F - 188 -60°C - 85 Minimum Installation Temperature UL 62275 -4°F or +3 -20°C or 0 (Note 1) Flammability Rating UL 94 V-2 Low Smoke ASTM E662 PASS Oxygen Index BS ISO 4589 28 Halogen-Free IEC 61249-2-21 Yes Burning Fume Toxicity BSS-7239 PASS Heat Deflection Temperature @ 1.8 Mpa ISO 75 -1/-2 70°C Relative Price – Low	C C C C C C C C C C C C C C	− 185°F − 76°F − 185°F − 60°C − 85°C r +32°F or 0°C te 1)	-76°F - 239°F -60°C - 115°C -4°F or +32°F -20°C or 0°C (Note 1)	● -76°F - 239°F -60°C - 115°C -4°F or +32°F -20°C or 0°C	-76°F - 239°F -60°C - 115°C -4°F or +32°F -20°C or 0°C	-76°F - 239°F -60°C - 115°C -4°F or +32°F	-76°F - 212°F -60°C - 100°C -4°F or +32°F	-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	-76°F – 338°F	-76°F – 257°F	-76°F - 500°F -60°C - 260°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
Acid Rain-Continuous Use Temperature RangeUL 746B-76°F - 184 -60°C - 85Minimum Installation TemperatureUL 62275-4°F or +3 -20°C or 0 (Note 1)Flammability RatingUL 94V-2Low SmokeASTM E662PASSOxygen IndexBS ISO 458928Halogen-FreeIEC 61249-2-21YesBurning Fume ToxicityBSS-7239PASSHeat Deflection Temperature @ 1.8 MpaASTM D648158°F 70°CProduct Family-Low	-76°F -185° °C -60°C − 85° 2°F -4°F or +32 °C -20°C or 0°C (Note 1) (Note 1)	- 185°F - 85°C -76°F - 185°F - 85°C -60°C - 85°C or +32°F -4°F or +32°F or 0°C -20°C or 0°C te 1) (Note 1)	-76°F - 239°F -60°C - 115°C -4°F or +32°F -20°C or 0°C (Note 1)	-76°F - 239°F -60°C - 115°C -4°F or +32°F -20°C or 0°C	-76°F - 239°F -60°C - 115°C -4°F or +32°F -20°C or 0°C	-76°F - 239°F -60°C - 115°C -4°F or +32°F	-76°F - 212°F -60°C - 100°C -4°F or +32°F	-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	-76°F – 257°F	-76°F – 500°F -60°C – 260°C	-40°F − 185°F -40°C − 85°C	-40°C – 115°C	● 76°F – 185°F -60°C – 85°C	● -40°F - 122°F
NotificationUL746B-76°F - 184 -60°C - 85Minimum Installation TemperatureUL62275-4°F or +3 -20°C or 0 (Note 1)Flammability RatingUL 94V-2Low SmokeASTM E662PASSOxygen IndexBS ISO 458928Halogen-FreeIEC 61249-2-21YesBurning Fume ToxicityBSS-7239PASSHeat Deflection Temperature @ 1.8 MpaASTM D648158°F 70°CProduct Family——	°F -76°F - 185° °C -60°C - 85° 2°F -4°F or +32 °C -20°C or 0° (Note 1) (Note 1)	- 185°F - 85°C - 60°C - 85°C or +32°F or 0°C + 20°C or 0°C te 1) - 4°F or +32°F - 4°F or +32°F - 20°C or 0°C (Note 1)	-76°F - 239°F -60°C - 115°C -4°F or +32°F -20°C or 0°C (Note 1)	-76°F - 239°F -60°C - 115°C -4°F or +32°F -20°C or 0°C	-76°F – 239°F -60°C – 115°C -4°F or +32°F -20°C or 0°C	-76°F – 239°F -60°C – 115°C -4°F or +32°F	-76°F – 212°F -60°C – 100°C -4°F or +32°F	-76°F – 212°F -60°C – 100°C	-76°F – 194°F -60°C – 90°C	-60°C – 115°C			-76°F – 257°F	-76°F – 500°F -60°C – 260°C	-40°F – 185°F -40°C – 85°C	-40°C – 115°C	76°F – 185°F -60°C – 85°C	-40°F – 122°F
Temperature Range-60°C - 85Minimum Installation TemperatureUL 62275-4°F or +3 -20°C or 0 (Note 1)Flammability RatingUL 94V-2Low SmokeASTM E662PASSOxygen IndexBS ISO 458928Halogen-FreeIEC 61249-2-21YesBurning Fume ToxicityBSS-7239PASSHeat Deflection Temperature @ 1.8 MpaASTM D648158°F 70°CRelative Price-Low	°C -60°C - 85° 2°F -4°F or +32 °C -20°C or 0° (Note 1)	- 85°C or +32°F or 0°C te 1) -4°F or +32°F -20°C or 0°C (Note 1)	-60°C - 115°C -4°F or +32°F -20°C or 0°C (Note 1)	-60°C – 115°C -4°F or +32°F -20°C or 0°C	-60°C – 115°C -4°F or +32°F -20°C or 0°C	-60°C – 115°C -4°F or +32°F	-60°C – 100°C -4°F or +32°F	-60°C – 100°C	-60°C – 90°C	-60°C – 115°C				-60°C – 260°C	-40°C – 85°C	-40°C – 115°C	-60°C – 85°C	
Flammability Rating UL 94 V-2 Low Smoke ASTM E662 PASS Oxygen Index BS ISO 4589 28 Halogen-Free IEC 61249-2-21 Yes Burning Fume Toxicity BSS-7239 PASS Heat Deflection Temperature @ 1.8 Mpa ASTM D648 158°F 1SO 75 -1/-2 Product Family — Low	°C -20°C or 0° (Note 1)	or 0°C -20°C or 0°C te 1) (Note 1)	-20°C or 0°C (Note 1)	-20°C or 0°C	-20°C or 0°C			-4°F or +32°F	4ºE or 120ºE							-4°F or +32°F	-4°F or +32°F	1
Low Smoke ASTM E662 PASS Oxygen Index BS ISO 4589 28 Halogen-Free IEC 61249-2-21 Yes Burning Fume Toxicity BSS-7239 PASS Heat Deflection Temperature @ 1.8 Mpa ASTM D648 ISO 75 -1/-2 158°F 70°C Relative Price — Low	V-2	-2 V-2	. ,		(Note 1)	(Note 1)	(Note 1)	-20°C or 0°C (Note 1)	-4 P 01 +32 P -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)	-20°C or 0°C (Note 1)	-20°C or 0°C (Note 1)	-4°F or +32°F -20°C or 0°C (Note 1)
Product Family Discrete Product Family BS ISO 4589 28 Doxygen Index BS ISO 4589 28 Halogen-Free IEC 61249-2-21 Yes Burning Fume Toxicity BSS-7239 PASS Heat Deflection Temperature @ 1.8 Mpa ASTM D648 158°F 70°C Relative Price - Low	1		V-2	V-2	V-2	HB	V-0	V-0	HB	НВ	HB	V-0	V-0	V-0	HB	HB	HB	V-0
Halogen-Free IEC 61249-2-21 Yes Burning Fume Toxicity BSS-7239 PASS Heat Deflection ASTM D648 158°F Temperature @ 1.8 Mpa ISO 75 - 1/-2 70°C Relative Price - Low	PASS	ASS PASS	PASS	PASS	PASS	PASS	PASS	PASS	-	-	-	-	-	PASS	-	-	PASS	-
Burning Fume Toxicity BSS-7239 PASS Heat Deflection ASTM D648 158°F Temperature @ 1.8 Mpa ISO 75 -1/-2 70°C Relative Price — Low	28	28 —	28	28	28	22	34	34	-	-	_	30	52	35	-	_	-	26
Heat Deflection ASTM D648 158°F Temperature @ 1.8 Mpa ISO 75 -1/-2 70°C Relative Price - Low	Yes	es Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes*	No	Yes	Yes	Yes	Yes	Yes
Temperature @ 1.8 Mpa ISO 75 -1/-2 70°C Relative Price - Low Product Family -	PASS	ASS PASS	PASS	PASS	PASS	PASS	PASS	PASS	-	-	_	_	-	_	-	-	-	_
Product Family	158°F 70°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	-
	Low	bw Low	Low	Low	Med	Med	Med	Med	Med	Med	Med	High	High	High	Low	Med	Med	High
	Cros	Cross Sections																
	SM, M, I, S		\checkmark	\checkmark	✓			✓	\checkmark	\checkmark	\checkmark	✓	\checkmark	\checkmark	\checkmark	\checkmark		
Super-Grip [®] Cable Ties SG	M, I, S, LH																	
Dome-Top® Barb Ty Cable Ties BT ✓	M, I, S		▼ √		✓			✓										
Dura-Ty™ Cable Ties DT		.,		•	V													
Contour-Ty® Cable Ties CBR ✓	M, I, S, HS, L	HS, LH	√	\checkmark				√									v	
Hyper-V [™] Cable Ties HV		LH																
Sta-Strap [®] Cable Ties SST	1	S, H	\checkmark															
Elastomeric Cable Ties ERT	M, I, S, H																	✓
Double Clamp Cable Ties PLDC	M, I, S, H					\checkmark												
Wide Strap Cable Ties PLWS	M, I, S, H																	4



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

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- 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



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- 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



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Tools



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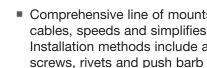
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5

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