Selection Guide – Specialty Ties

	Material, Color (Suffix)	Style/Function	Part Number Prefix	Catalog Page
Stud Mounted Cable Ties	Heat Stabilized Nylon 6.6, Black (30)	Locking Ties/Bundle	PLST	B 1.71
		Releasable/Re-usable	PRST	B 1.71
	Heat Stabilized Weather Resistant Nylon 6.6, Black (300)	Locking/Bundle	PLST	B 1.71
Ladder Style Stud Mount	Heat Stabilized Nylon 6.6, Black (30)	Releasable/Re-usable	PRST	B 1.72
Double Loop Ties – One-Piece	Nylon 6.6, Natural (No Suffix)	Locking/Bundle	PLB	B 1.72
	Weather Resistant Nylon 6.6, Black (0)			
	Heat Stabilized Nylon 6.6, Black (30)			
Double Loop Ties – Two-Piece	Nylon 6.6, Natural (No Suffix)	Locking/Bundle	SSB	B 1.73
	Weather Resistant Nylon 6.6, Black (0)			
	Heat Stabilized Nylon 6.6, Black (30)			
Triple Loop Ties	Weather Resistant Nylon 6.6, Black (0	Locking/Bundle	PL3B	B 1.74
Double Hose Clamp	Weather Resistant Nylon 6.6, Black (0	Locking/Bundle	DHC	B 1.74
Chassis/Panel Mount Ties	Heat Stabilized Weather Resistant Nylon 6.6, Black (300)	Locking/Bundle	SSPM	B 1.75
Cable Marker Strap	Polyethylene (No Suffix)	Releasable/Re-usable	CM4S	B 1.76

Part Number System for Specialty Cable Ties

PLST – **4** – **H** – **S25** – **—** – **TL** – **300**

Type

CM4S = Cable Marker Strap
PLB = Locking Bow Tie
PL3B = Triple Loop Tie
DHC = Double Hose Clamp
PLST = Locking Stud Mounted Tie
PRST = Releasable Stud Mount Ladder Style
SSB = Sta-Strap® Bow-Ty™ Tie
SSPM = Sta-Strap® Panel Mount

Size

Approx. Maximum Bundle Dia. (In.)

Cross Section

S = Standard
H = Heavy
EH = Extra-Heavy

Stud Size

-S25 = M6
-SC = 5mm
-S14 = 5mm

Package Size

L = 50
C = 100
TL = 250
D = 500
M = 1000

Material/Color

See Page B1.77

Cable tie tools speed installation and reduce total installed cost.

Visit ools.

Cable tie accessories are used to speed and simplify the mounting of wires, cables, and tubing.

See pages B2.1 – B2.26.

Order number of pieces required, in multiples of Standard Package Quantity.

Specialty Cable Ties

Material and Color Chart

Part Number	Color	Panduit Suffix
Nylon 6.6	Natural	✓
Weather Resistant Nylon 6.6	Black	0
Nylon 6.6	Red	2
Nylon 6.6	Gray	8

✓Denotes Panduit® Natural Nylon 6.6 (no suffix).

Part Number	Color	Panduit Suffix
Heat Stabilized Nylon 6.6	Black	30
Heat Stabilized Weather Resistant Nylon 6.6	Black	300

Part Number Availability List

Standard Packaging			Bulk Packaging		
Part Number	Natural Nylon 6.6	Material/Color Suffix	Part Number	Natural Nylon 6.6	Material/Color Suffix
CM4S-L		2.8			
			DHC1.12X1.75-D		0
PLB2S-C	✓	0	PLB2S-M	✓	0,30
PLB3S-C	✓	0	PLB3S-M	✓	0,30
PLB4S-C	✓		PLB4S-M	✓	0,30
			PLB4H-TL	✓	0,30
			PL3B5EH-C		0
			PLST4HS25-TL		300
			PLST30SC-D		30
			PLST50SC-D		30
			PRST30S-S14-M		30
			PRST40SC-D		30
SSB2S-C	✓		SSB2S-M	✓	0,30
SSPM2.5H-L		300	SSPM2.5H-TL		300
SSPM2.5HP-L		300	SSPM2.5HP-TL		300
SSPM4H-L		300	SSPM4H-TL		300
SSPM4HP-L		300	SSPM4HP-TL		300
			SSPM4HLP-TL		300

Cable Tie Selection Chart

Follow this step-by-step process to find the cable ties that best suit your application:

Cable Tie Function
1) Select the main function of the cable tie you need:
Bundle = Standard Cable Ties
Re-use = Nylon Releasable Ties*
Identify = Marker and Flag Ties
Mount = Clamp Ties, Push Mount Ties, and Stud Mount Ties

Material Properties
2) Determine the appropriate material for your application:
Mechanical
Chemical
Thermal

Cable Tie Family
3) Select the cable tie family that meets your overall needs

	Cable Tie Function		Bundle, Re-use, Identify, Mount	Bundle, Re-use, Identify, Mount	Bundle, Re-use, Mount	Bundle, Re-use, Mount	Bundle	Bundle
	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**
	Color	—	Natural	Black	Black	Black	Natural	Black
	Part Number Suffix (Material Designation)	—	No Suffix	0	0	30	39	300
Mechanical Properties	**Tensile @ Yield @ 73°F (psi)**	ISO 527	12,000	12,000	9,700	12,000	12,000	12,000
	Water Absorption (24 Hours)	ASTM D570	1.2%	1.2%	1.2%	1.2%	1.2%	1.2%
	Radiation Resistance (Rads)	—	1×10^5	1×10^5	1×10^5	1×10^5	1×10^5	1×10^5
	Weathering Life Expectancy (Years)/ UV Resistance	—	1 – 2	7 – 9	7 – 9	4 – 5	1 – 2	7 – 9
	Impact Resistance	—	○	○	◒	○	○	○
Chemical Resistance	**Salts**	—	◒	◒	◒	◒	◒	◒
	Hydrocarbons (Gas, Oil, Lubricants)	—	●	●	●	●	●	●
	Chlorinated Hydrocarbons	—	◒	◒	◒	◒	◒	◒
	Acids	—	●	●	●	●	●	●
	Bases	—	◒	◒	◒	◒	◒	◒
	Acid Rain	—	◒	◒	◒	◒	◒	◒
Thermal Properties	**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
	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)
	Flammability Rating	UL 94	V-2	V-2	HB	V-2	V-2	V-2
	Low Smoke	ASTM E662	PASS	PASS	PASS	PASS	PASS	PASS
	Oxygen Index	BS ISO 4589	28	28	—	28	28	28
	Halogen-Free	IEC 60754-2	Yes	Yes	Yes	Yes	Yes	Yes
	Burning Fume Toxicity	BSS-7239	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
	Relative Price	—	Low	Low	Low	Low	Low	Med

	Product Line			Cross Sections				
Cable Tie Catalog Page	**Pan-Ty®**		✓	SM, M, I, S	LH, H, EH	✓	✓	✓
	Super-Grip® (B1.38)		✓	M, I, S, LH	H	✓		
	Dome-Top® Barb Ty (B1.43)		✓	M, I, S	LH	✓	✓	✓
	Dura-Ty™ (B1.53)							
	Parallel-Entry (B1.56)		✓	M, I, S, HS	LH		✓	
	Sta-Strap® (B1. 65)		✓	M, I, S, LH, H		✓		
	Specialty Ties (B1.73)		✓		H	✓		✓

Check mark indicates material availability in that product line.
Cross Sections: SM = Subminiature, M = Miniature, I = Intermediate, S = Standard, HS = Heavy-Standard, LH = Light-Heavy, H = Heavy, EH = Extra-Heavy.
*For information on re-usable Hook and Loop Cable Ties, see page B1.81.

Order number of pieces required, in multiples of Standard Package Quantity.

Recommendation Legend	Highest	High	Acceptable	Low	Lowest
	●	◓	○	◒	●

Bundle	Bundle, Identify	Bundle	Bundle	Bundle, Re-use	Bundle	Bundle	Bundle	Bundle	Bundle	Bundle
Flame Retardant Nylon 6.6	Flame Retardant Nylon 6.6	Weather Resistant Nylon 12	Polypropylene	Weather Resistant Polypropylene	TEFZEL■	HALAR▲	PEEK	Metal Detectable Nylon 6.6	Metal Detectable Polypropylene	Weather Resistant Acetal
Black	Natural Ivory	Black	Green	Black	Aqua Blue	Maroon	Brown	Blue	Blue	Black
60	69	120	109	100	76	702Y	71	86	186	N/A
11,000	11,000	6,700	4,100	4,100	7,500	7,000	15,200	—	—	6,500
1.1%	1.1%	0.3%	0.1%	0.1%	<0.03%	<0.05%	0.5%	1.2%	0.1%	<0.45%
1×10^5	1×10^5	3.5×10^6	1×10^6	1×10^6	2×10^8	2×10^8	1×10^9	—	1×10^6	6×10^5
1 – 2	1 – 2	12 – 15	1	7 – 9	>15	>15	—	—	1	>20
◒	◒	○	◓	◓	●	●	●	○	◓	◓
									●	
●	●	●	○	○	●	●	●	●	○	●
									○	
●	●	○	●	●	●	●	○	●	●	●
									●	
◒	◒	◓	●	●	●	●	◓	—	●	◒
-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 - 257°F -60°C - 125°C	-76°F - 500°F -60°C - 260°C	-76°F - 239°F -60°C - 115°C	-76°F - 185°F -60°C - 85°C
-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)
V-0	V-0	HB	HB	HB	V-0	V-0	V-0	HB	HB	HB
PASS	PASS	—	—	—	—	—	PASS	—	—	PASS
34	34	—	—	—	30	52	35	—	—	—
Yes	Yes	Yes	Yes	Yes	No	No	Yes	Yes	Yes	Yes
PASS	PASS	—	—	—	—	—	—	—	—	—
154°F 68°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	145°F 63°C	122°F 50°C	239°F 115°C
Med	Med	Med	Med	Med	High	High	High	Low	Med	Med
✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	
	✓									
										✓
	✓									

Note 1: Check UL file for the specific part number rating
Note 2: Based upon UL RTI for electrical properties
■ TEFZEL is a registered trademark of E.I. du Pont de Nemours and Company ▲ HALAR is a registered trademark of Solvay Solexis