Features and Benefits – Hook and Loop Cable Ties

The comprehensive family of hook and loop cable ties delivers reliability by protecting against over-tensioning of high performance fiber and copper cables. These ties are adjustable, releasable, and re-usable to effectively support frequent moves, adds, and changes (MACs). A wide range of colors provides flexibility and an aesthetically pleasing appearance. The complete line of Panduit® Hook and Loop Cable Ties help maintain the reliable, scalable, and aesthetic requirements of data centers.

Tak-Ty® Hook & Loop Cable Ties – Premium, durable designs and sizes

Loop Style

Allows for pre-wrapping of bundles

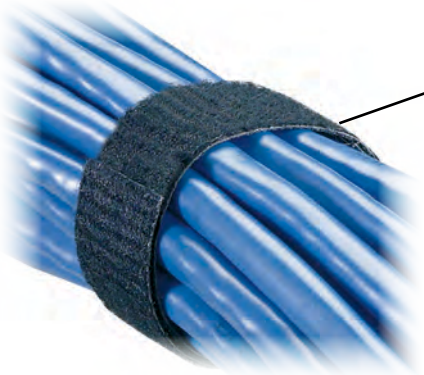
Roll/Strip/Brick Style

Available in continuous or perforated rolls and stacked strips

Plenum-Rated

Distinctive maroon color (also available in black)

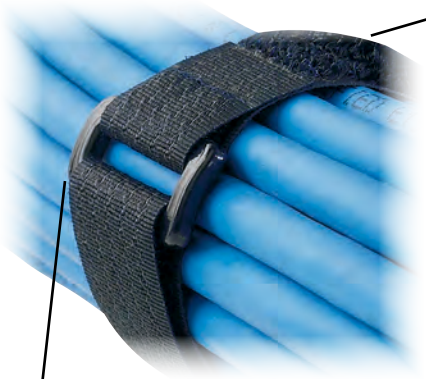
Tak-Tape™ Hook & Loop Rolls



Strong, low profile hook and loop material

Convenient packaging

Ultra-Cinch™ Hook & Loop Cable Ties



Unique same-sided material secures a greater range of bundle diameters

Available in three styles and eight colors; grommet styles used for bundle mounting applications

Low profile contoured cinch ring reduces overall bundle size

Wire management accessories speed and simplify the mounting of high performance cabling.

See pages B2.4, B2.10, B2.19, B2.22, C3.2, C3.3, C3.7, and C3.8.

Selection Guide – Hook and Loop Cable Ties

Product, Color (Suffix)	Style/Function	Part Number Prefix	Catalog Page
Tak-Ty® Ties, Black (0)	Loop Ties/Re-usable	HLT	B1.83
	Strip Ties/Re-usable	HLS	B1.83
	15' and 75' Rolls/Re-usable	HLM, HLS	B1.83
	Strip Ties/Re-usable/Brick	HLB	B1.83
Tak-Ty® Plenum-Rated Ties, UL Listed Black, Maroon (0, 12)	Loop Ties/Re-usable	HLTP	B1.84
	Strip Ties/Re-usable	HLSP	B1.84
Tak-Tape™ Rolls, Black (0)	20' and 35' Rolls/Re-usable	TTS	B1.84
Ultra-Cinch™ Ties, Black (0)	Cinch Ties/Re-usable	UCT	B1.85
	Cinch Ties – Center Mount Grommet/Re-usable	UGCTC	B1.85
	Cinch Ties – End Mount Grommet/Re-usable	UGCTE	B1.85

Part Number System for Hook and Loop Ties

HLT 2 I – X 0

Type

HL = Hook and Loop
HLB = HL Brick
HLM = HL Miniature
HLT = HL Loop Tie
HLTP = HL Loop Tie Plenum-Rated
HLS = HL Strip Tie
HLSP = HL Strip Tie Plenum-Rated
TTS = Tak-Tape™ Roll
UCT = Ultra-Cinch™ Tie
UGCTC = UCT Grommet Cinch Tie – Center Mount
UGCTE = UCT Grommet Cinch Tie – End Mount

Size

Approx. Maximum Bundle Dia. (In.)

Cross Section

I = Intermediate
S = Standard

Package Size

X = 10
C = 100
15R = 15' Roll
20R = 20' Roll
35R3 = 35' Rolls (3)
35RX = 35' Rolls (10)
75R = 75' Roll

Color

See Page B1.86

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

Hook and Loop Cable Ties

Color Chart

Color	Panduit® Suffix
Black	0
Red	2
Orange	3
Yellow	4
Green	5

Color	Panduit Suffix
Blue	6
Gray	8
White	10
Maroon	12

Part Number Availability List

Standard Packaging	
Part Number	**Color**
HLB2S	0
HLM-15R	0,2,3,4,5,6,8,10
HLS-15R	0,2,3,4,5,6,8,10
HLS-75R	0,2,3,4,5,6,8,10
HLS1.5S-X	0,2,3,4,5,6,8,10
HLS3S-X	0,2,3,4,5,6,8,10
HLS5S-X	0,2,3,4,5,6,8,10
HLSP1.5S-X	0,12
HLSP3S-X	0,12
HLSP5S-X	0,12
HLT2I-X	0,2,3,4,5,6,8,10
HLT3I-X	0,2,3,4,5,6,8,10
HLTP2I-X	0,12
HLTP3I-X	0,12
TTS-20R	0
TTS-35RX	0
TTS-35R3	0
UCT3S-X	0,2,3,4,5,6,8,10
UCT5S-X	0,2,3,4,5,6,8,10
UGCTC3S-X	0,2,3,4,5,6,8,10
UGCTC5S-X	0,2,3,4,5,6,8,10
UGCTE3S-X	0,2,3,4,5,6,8,10
UGCTE5S-X	0,2,3,4,5,6,8,10

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
Mechanical Properties	**Water Absorption (24 Hours)**	ASTM D570	1.2%	1.2%	1.2%	1.2%	1.2%	1.2%
Mechanical Properties	**Radiation Resistance (Rads)**	—	1×10^5	1×10^5	1×10^5	1×10^5	1×10^5	1×10^5
Mechanical Properties	**Weathering Life Expectancy (Years)/ UV Resistance**	—	1 – 2	7 – 9	7 – 9	4 – 5	1 – 2	7 – 9
Mechanical Properties	**Impact Resistance**	—	○	○	⊖	○	○	○
Chemical Resistance	**Salts**	—	◒	◒	◒	◒	◒	◒
Chemical Resistance	**Hydrocarbons (Gas, 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 - 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
Thermal 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)
Thermal Properties	**Flammability Rating**	UL 94	V-2	V-2	HB	V-2	V-2	V-2
Thermal Properties	**Low Smoke**	ASTM E662	PASS	PASS	PASS	PASS	PASS	PASS
Thermal Properties	**Oxygen Index**	BS ISO 4589	28	28	—	28	28	28
Thermal Properties	**Halogen-Free**	IEC 60754-2	Yes	Yes	Yes	Yes	Yes	Yes
Thermal Properties	**Burning Fume Toxicity**	BSS-7239	PASS	PASS	PASS	PASS	PASS	PASS
Thermal Properties	**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	✓	✓	✓
Cable Tie Catalog Page	**Super-Grip® (B1.38)**		✓	M, I, S, LH	H	✓		
Cable Tie Catalog Page	**Dome-Top® Barb Ty (B1.43)**		✓	M, I, S	LH	✓	✓	✓
Cable Tie Catalog Page	**Dura-Ty™ (B1.53)**							
Cable Tie Catalog Page	**Parallel-Entry (B1.56)**		✓	M, I, S, HS	LH		✓	
Cable Tie Catalog Page	**Sta-Strap® (B1. 65)**		✓	M, I, S, LH, H		✓		
Cable Tie Catalog Page	**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