

Features and Benefits – Parallel-Entry Cable Ties

Parallel-entry cable ties limit exposure to sharp edges and protect workers' arms/hands. The ties are designed with a low profile head to avoid snags and reduce overall bundle size.

Contour-Ty® Cable Ties

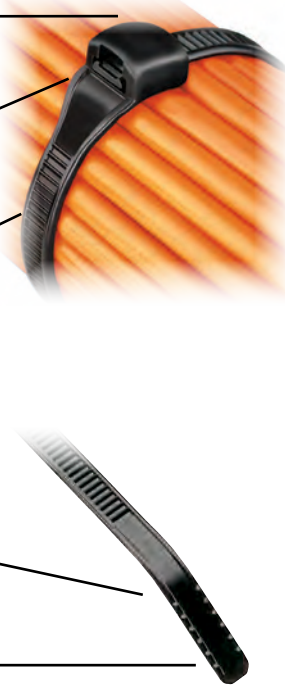
Fully enclosed head for consistent strength

Fully rounded edges on head and strap

Outside teeth and smooth round edges protect cable jacket – ideal for high vibration applications

Curved tip threads easily and installs faster

Rounded tip and aggressive grip for faster initial threading



Hyper-V™ Cable Ties

Design provides for an optional threading position that allows releasable, temporary bundling

Fixed and flexible 2-wedge locking design

Tip bending serrations and threading hole facilitate installations in confined spaces



Belt-Ty™ In-Line Cable Ties

Parallel-entry limits exposure to sharp edges and protects workers' arms/hands

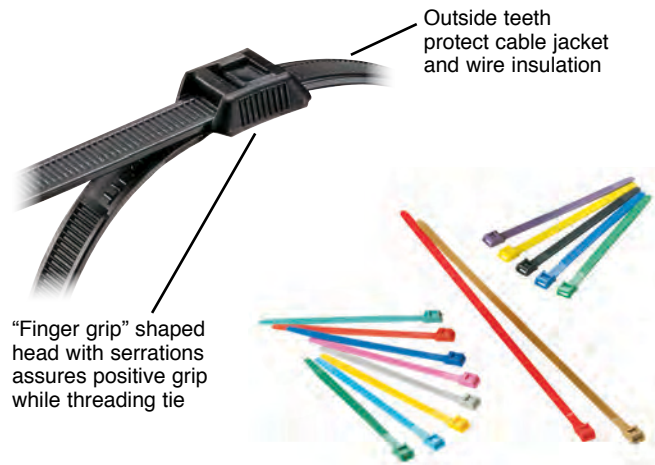
"Finger grip" shaped head assures positive grip while threading tie



IN-LINE Cable Ties

Outside teeth protect cable jacket and wire insulation

"Finger grip" shaped head with serrations assures positive grip while threading tie



Cable tie tools speed installation and reduce total installed cost.

Visit www.panduit.com/tools.



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

See pages B2.1 – B2.26.

- B2. Cable Accessories
- B3. Stainless Steel Cable Ties & Accessories
- C1. Wiring Duct
- C2. Abrasion Protection
- C3. Cable Management
- D1. Terminals
- D2. Power Connectors
- D3. Grounding Connectors
- E1. Labeling Systems
- E2. Labels
- E3. Pre-Printed & Write-On Markers
- E4. Permanent Identification
- E5. Industrial Safety Solutions
- F. Keystone Cabling Systems
- G. Part Number Index

Selection Guide – Parallel-Entry Cable Ties



	Material, Color (Suffix)	Style/Function	Part Number Prefix	Catalog Page
Contour-Ty® Cable Ties	Nylon 6.6, Natural (No Suffix)	Locking Ties/Bundle	CBR	B1.56
	Weather Resistant Nylon 6.6, Black (0)	Locking Ties/Bundle	CBR	B1.57
	Heat Stabilized Nylon 6.6, Black (30)	Locking Ties/Bundle	CBR	B1.58
	Heat Stabilized Nylon 6.6, Natural (39)	Locking Ties/Bundle	CBR	B1.58
	Flame Retardant Nylon 6.6, Ivory (69)	Locking Ties/Bundle	CBR	B1.58
Belt-Ty™ In-Line Cable Ties	Nylon 6.6, Natural (No Suffix)	Locking Ties/Bundle	ILT	B1.59
	Weather Resistant Nylon 6.6, Black (0)	Locking Ties/Bundle	ILT	B1.59
Hyper-V™ Cable Ties	Weather Resistant Nylon 6.6, Black (0)	Locking Ties/Bundle	HV	B1.60
IN-LINE Cable Ties	Weather Resistant Nylon 6.6, Black (0 and colors)	Locking Ties/Bundle	IT	B1.61

Part Number System for Contour-Ty® and Belt-Ty™ Cable Ties

CBR	2	S	—	M	
Type	Size	Cross Section		Package Size	Material/Color
CBR = Locking Tie ILT = Locking Tie	Approx. Maximum Bundle Dia. (In.)	M = Miniature I = Intermediate S = Standard HS = Heavy-Standard LH = Light-Heavy		C = 100 TL = 250 D = 500 M = 1000	See Page B1.62

Part Number System for Hyper-V™ and IN-LINE Cable Ties

HV	9	100	—	C	
Type	Width	Size		Package Size	Material/Color
HV = Locking Tie IT = Locking Tie	Approx. Width (mm)	Approx. Maximum Bundle Dia. (mm)		C = 100	See Page B1.62

Parallel-Entry 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	Brown	1
Nylon 6.6	Red	2
Nylon 6.6	Orange	3
Nylon 6.6	Yellow	4Y
Nylon 6.6	Green	5
Nylon 6.6	Blue	6
Nylon 6.6	Purple	7
Nylon 6.6	Gray	8
Nylon 6.6	White	10
Heat Stabilized Nylon 6.6	Black	30
Heat Stabilized Nylon 6.6	Natural	39
Flame Retardant Nylon 6.6	Natural (Ivory)	69

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

Part Number	Color	Panduit Suffix
Nylon 6.6	Ultraviolet Red	UV2
Nylon 6.6	Ultraviolet Bright Red	UV2A
Nylon 6.6	Ultraviolet Yellow	UV4Y
Nylon 6.6	Ultraviolet Butterscotch	UV4A
Nylon 6.6	Ultraviolet Green	UV5A
Nylon 6.6	Ultraviolet Hunter Green	UV5B
Nylon 6.6	Ultraviolet Dark Blue	UV6
Nylon 6.6	Ultraviolet Light Blue	UV6A
Nylon 6.6	Ultraviolet Cobalt Blue	UV6B
Nylon 6.6	Ultraviolet Purple	UV7A
Nylon 6.6	Ultraviolet Gray	UV8
Nylon 6.6	Ultraviolet Charcoal Gray	UV8A
Nylon 6.6	Ultraviolet Teal	UV11
Nylon 6.6	Ultraviolet Magenta	UV16B
Nylon 6.6	Ultraviolet Tan	UV18

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
			CBR1M-M	✓	0,30
			CBR1.5M-M	✓	0
			CBR2M-M	✓	0,1,2,3,4Y,5,6,7
			CBR1.5I-M	✓	0,30
			CBR3I-M	✓	0,1,2,3,4Y,5,6,7,8,10
			CBR4I-M	✓	0
			CBR2S-M	✓	0,30,39
			CBR3S-M	✓	0,30,69
			CBR4S-M	✓	0,30
			CBR2HS-D	✓	0
			CBR4LH-TL	✓	0,30
			CBR6LH-C	✓	0,30
			HV965-C	✓	0
			HV9100-C	✓	0
			HV9150-C	✓	0
			HV9250-C	✓	0
ILT2S-C	✓	0	ILT2S-M	✓	0
ILT3S-C	✓	0	ILT3S-M	✓	0
ILT4S-C	✓	0	ILT4S-M	✓	0
			ILT4LH-TL	✓	0
			ILT6LH-C	✓	0
			IT940-C	✓	0
			IT965-C	✓	0
			IT9100-C	✓	0,UV2,UV4Y,UV6,UV7A,UV8,UV16B
			IT9115-C	✓	0,UV2,UV2A,UV4Y,UV4A,UV5A,UV5B,UV6,UV6A,UV6B,UV7A,UV8,UV8A,UV11,UV16B,UV18

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
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	Cable Tie Function	Test Method	Bundle, Re-use, Identify, Mount	Bundle, Re-use, Identify, Mount	Bundle, Re-use, Mount	Bundle, Re-use, Mount	Bundle	Bundle
	Material		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 x 10 ⁵	1 x 10 ⁵	1 x 10 ⁵	1 x 10 ⁵	1 x 10 ⁵	1 x 10 ⁵
	Weathering Life Expectancy (Years)/ UV Resistance	—	1 – 2	7 – 9	7 – 9	4 – 5	1 – 2	7 – 9
Chemical Resistance	Impact 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

Cable Tie Catalog Page	Product Line		Cross Sections				
	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.

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 x 10 ⁵	1 x 10 ⁵	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 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

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