

Nylon 612 Cable Ties



specifications

Mechanical and chemical attributes of black weather resistant nylon 612 cable ties shall provide resistance to UV rays and chemical attack when exposed to various concentrations of salts, hydrocarbons, chlorinated hydrocarbons bases and acid rain.

technical information

Tensile @ yield @ 73° F (psi)	9,300 per ISO 527
Water absorption (24 Hours)	0.4% per ASTM D570
Weathering Life Expectancy (Years) / UV Resistance	20*
Max. continuous use temperature	194°F (90°C) per UL 746B
Min. installation temperature	-4°F (-20°C) or +32°F (0°C)
Halogen-Free	Yes
Heat Deflection Temperature @ 1.8 Mpa	158°F (70°C) per ASTM D648 ISO 75 - 1/-2
Chemical resistance	High
Salts	High
Hydrocarbons (Gas, Oil, Lubricants)	Excellent
Chlorinated Hydrocarbons	High
Base	High
Acid Rain	High
Impact Resistance	Good

key features and benefits

Nylon 612 material	Resist chemical attack when exposed to salts, hydrocarbons, chlorinated hydrocarbons, bases, and corrosive (zinc chloride, and diluted acids), and low temperature indoor or outdoor applications.
Black UV resistant properties	Allows ties to withstand exposure to sunlight; contributes to weathering life expectancy of 20 years*
Optional PoE	Provides 48 VDC power to the switch for PoE devices to simplify PoE capable deployments and save money on the purchase of PoE injectors
One-piece design with locking wedge	Provides low thread force for easy and reliable installation; improves productivity and reduces operator fatigue
Curved, tapered tip	Threads easily into head; installs quickly for improved productivity

applications

Nylon 612 offers 20 years of weathering life expectancy and resistance to zinc chlorides and diluted acids. Ideal for wire management on galvanized surfaces / frames. Nylon 612 cable ties are suitable for outdoor applications where temperatures range from -76°F (-60°C) up to 194°F (90°C).

*This is an estimated life expectancy and not a guarantee of life in an application.

Miniature Cross Section 20lbs (89N) Min. Loop Tensile

Black Weather Resistant: [PLT1M-M6120](#)

Intermediate Cross Section 25lbs (111N) Min. Loop Tensile

Black Weather Resistant: [PLT1.5I-M6120](#)

Standard Cross Section 50lbs (222N) Min. Loop Tensile

Black Weather Resistant: [PLT2S-M6120](#)
[PLT2.5S-M6120](#)
[PLT3S-M6120](#)
[PLT4S-M6120](#)

Light-Heavy Cross Section 120lbs (534N) Min. Loop Tensile

Black Weather Resistant: [PLT4H-TL6120](#)
[PLT7LH-C6120](#)
[PLT8LH-C6120](#)

Recommended Installation Tools

Hand Tools: [GTS-E](#),
Tool controlled tension and cut-off: [GTH-E](#), [GS2B-E](#),
[GS4H-E](#), [GS4EH-E](#)

Hand Tools: Installer controlled tension and cut-off: [STS2](#), [STH2](#), [ST3EH](#)

Pneumatic Tools: [PTS](#), [PPTS](#), [PTH](#)

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Ordering Information

Black Weather Resistant Part Number	Length In. (mm)	Width In. (mm)	Thickness In. (mm)	Max. Bundle Dia. In. (mm)	Min. Loop Tensile Strength Lbs. (N)	Recommended Installation Tool	Pkg. Qty.*	Bulk Ctn. Qty.
Miniature Cross Section								
PLT1M-M6120	3.9 (99)	.098 (2.5)	0.043 (1.1)	0.87 (22)	20 (89)	GTS-E, GS2B-E, PTS, PPTS, STS2	1,000	50,000
PLT1M-C6120							100	1,000
Intermediate Cross Section								
PLT1.5I-M6120	5.6 (142)	0.142 (3.6)	0.045 (1.1)	1.38 (35)	25 (111)	GTS-E, GS2B-E, PTS, PPTS, STS2	1,000	25,000
PLT1.5I-C6120							100	1,000
Standard Cross Section								
PLT2S-M6120	7.4 (188)	0.19 (4.8)	0.047 (1.2)	1.88 (48)	50 (222)	GTS-E, GS2B-E, GTH-E, GS4H-E, PTS, PTH, PPTS, STS2, STH2	1,000	10,000
PLT2S-C6120								100
PLT2.5S-M6120	9.8 (249)		2.5 (64)	1,000			10,000	
PLT2.5S-C6120				100			1,000	
PLT3S-M6120	11.5 (292)		0.052 (1.3)	3.0 (76)			1,000	10,000
PLT3S-C6120							100	1,000
PLT4S-M6120	14.5 (368)		4.0 (102)	1,000			5,000	
PLT4S-C6120							100	1,000
Light-Heavy Cross Section								
PLT4H-TL6120	14.5 (368)	0.3 (7.6)	0.075 (1.9)	4.0 (102)	120 (534)	GTH-E, GS4H-E, GS4EH-E, PTH, STH2, ST3EH	250	1,000
PLT7LH-C6120	24.7 (627)			7.0 (178)			100	2,000
PLT8LH-C6120	27.6 (701)			8.0 (203)				

*Order number of pieces required, in multiples of Packages Quantity

Related Products



Part Number	Used with Nylon 612 Cable Ties	Description	Std. Pkg. Qty.
Tool Controlled Tension and Cut-Off Tools			
GTS-E, GS2B-E	Miniature, Intermediate, Standard	Tool controlled tension tool consistently provide flush tie cut-offs to speed installation	1
GS4H-E, GTH-E	Standard, Light-Heavy		
GS4EH-E	Light-Heavy		
Installer Controlled Tension and Cut-Off Tools			
STS2	Miniature, Intermediate, Standard	Installer controlled tension tools are economical and ideal for low volume applications	1
STH2	Standard, Light-Heavy		
ST3EH	Light-Heavy		
Pneumatic Tools			
PTS, PPTS	Miniature, Intermediate, Standard	Pneumatic, push button operation tools tension and cut-off excess tie in a fraction of a second	1
PTH	Standard, Light-Heavy		

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