

Dome-Top® Barb Ty Nylon 6.12 Cable Ties

SPECIFICATIONS

The black, weather-resistant barbed cable ties shall be manufactured from Nylon 6.12 and shall provide resistance to ultraviolet (UV) light and chemical exposure, including salts, hydrocarbons, chlorinated solvents, bases, and acid rain. The cable tie shall have a maximum continuous use temperature of 194°F (90°C) and shall be suitable for cold environments down to -76°F (-60°C). Installation shall occur at temperatures above 32°F (0°C). The Nylon 6.12 barbed cable ties are hygroscopic in nature and shall be moisture-conditioned and sealed in protective packaging to maintain flexibility and installation performance.



TECHNICAL INFORMATION

Tensile @ yield @ 73°F (psi):	per ISO 527
Water absorption (24 hours):	0.4% per ASTM D570
Weathering life expectancy/ UV resistance*:	20 years
Max. continuous use temperature:	194°F (90°C) per UL 746B
Min. installation temperature:	32°F (0°C)
Halogen-free	Yes
Heat deflection temperature @ 1.8 Mpat:	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

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

KEY FEATURES AND BENEFITS

Nylon 6.12 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*
Domed cable tie head with smooth edges and low thread force design:	Facilitates handling and reduces operator fatigue for improved productivity
Patented two-piece barbed stainless steel design with anti-slip strap:	Provides consistent performance, reliability, and infinite adjustability throughout the length of the cable bundle. The ribbed and stippled strap prevents axial and lateral movement for secure bundling under high wind conditions
Curved, tapered tip:	Curved tip orients toward the head of the cable tie for faster initial threading, and to facilitate lifting from flat surfaces**

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**Standard cable tie cross sections only

Standard Cross Section Min Loop Tensile

Black weather resistant:	BT4S-M6120 BT4S-C6120
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Light-Heavy Cross Section Min Loop Tensile

Black weather resistant:	BT4LH-L6120 BT7LH-C6120 BT9LH-C6120
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Recommended Installation Tools

Hand tools:

Tool controlled tension and cut-off:	GTS-E, GTH-E, GS2B-E, GS4H-E, GS4EH-E
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Installer controlled tension and cut-off:	STS2, STH2, ST3EH
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Pneumatic tools:	PTS, PPTS, PTH
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APPLICATIONS

Nylon 6.12 barbed cable ties are ideal for outdoor wire and cable management, including use on galvanized surfaces and in environments with exposure to chemicals or extreme temperatures. With an expected weathering life of up to 20 years*, they provide long-term durability in challenging conditions. To ensure optimal performance, follow proper installation and storage procedures. Store ties in sealed packaging at 73°F/ 20°C (± 15°F/ 8°C) and 50% relative humidity. Avoid installation below 32°F (0°C), as low temperatures may reduce flexibility due to moisture loss which can impact cable tie performance. Nylon 6.12 products are moisture conditioned and sealed in heavy-wall, polyethylene heatsealed bags during manufacturing to ensure optimal performance during installation.

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ORDERING INFORMATION

Part Number	Length In. (mm)	Width In. (mm)	Thickness In. (mm)	Max. Bundle Diameter In. (mm)	Min. Loop Tensile Strength Lbs. (N)	Recommended Installation Tool	Pkg. Qty.*	Bulk Ctn. Qty.
STANDARD CROSS SECTION								
BT4S-M6120	15.1 (384)	0.185 (4.7)	0.052 (1.3)	4.0 (102)	50 (222)	GTS-E, GS2B-E, GTH-E, GS4H-E	1,000	5,000
BT4S-C6120							100	1,000
LIGHT-HEAVY CROSS SECTION								
BT4LH-L6120	14.9 (378)	0.275 (7.0)	0.065 (1.7)	4.0 (102)	120 (534)	GTH-E, GS4H-E, GS4EH-E	50	500
BT7LH-C6120	24.4 (620)			7.0 (178)			100	2,000
BT9LH-C6120	30.7 (780)			9.0 (229)				1,000

*Order number of pieces required, in multiples of packages quantity

ORDERING INFORMATION

Part Number	Used with Nylon 6.12 Cable Ties	Description	Std. Pkg. Qty.
TOOL CONTROLLED TENSION AND CUT-OFF TOOLS			
GTS-E	Standard	Tool controlled tension tool consistently provide flush tie cut-offs to speed installation	1
GS2B-E			
GS4H-E	Standard, Light-Heavy		
GTH-E			
GS4EH-E	Light-Heavy		



GTS-E



GTH-E