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Post-Industrial Recycled (PIR) Nylon 6.6 Cable Ties and Mounts

PANDUIT™
SPECIFICATION SHEET

SPECIFICATIONS

These impact-modified, heat-resistant cable ties and mounts shall be manufactured from up to 100% post-industrial recycled (PIR) Nylon 6.6. They shall offer resistance to ultraviolet (UV) light exposure and are suitable for both indoor and outdoor industrial applications.

These environmentally-friendly cable management products shall support continuous use at temperatures up to 239°F (115°C) and remain functional in cold environments as low as -76°F (-60°C). Due to the hygroscopic nature of PIR Nylon 6.6 material, post-industrial recycled Nylon 6.6 cable ties and mounts shall be moisture-conditioned and sealed in protective packaging to preserve flexibility and maintain consistent installation performance.



CERTIFICATIONS

Commercial standards and specifications:	UKCA*; CE*
Statutory and regulatory approvals:	RoHS; EU REACH UL 62275 Approval; Types 2, 21, 2S, 21S* Resin material certified to SCS** Recycled Content Standard Needle Flame Test per IEC 62275* Bureau Veritas Certification* DNV Product Certification*
Environmental requirements specifications:	UL 2809 validated for recycled content certification* CONEG/EU Packaging Product can be recycled in the intended markets‡

*Pending
**SCS Standards and Assurance Systems is a wholly owned subsidiary of Scientific Certification Systems
‡Reference your local regulatory requirements to ensure compliance with approved recycling methods

KEY FEATURES AND BENEFITS

Up to 100% Post-industrial Recycled (PIR) Nylon 6.6:	Provides up to 36% carbon footprint (CFP) reduction credit towards corporate sustainability goals by using recyclable‡ plastic cable ties and mounts manufactured with recycled Nylon material
Black UV resistant properties:	Allow ties to withstand exposure to sunlight, contributing to weathering life expectancy of 10 years†
Impact modified and heat stabilized:	Provide the strength and reliability required for long-lasting industrial performance
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 the head of the cable tie; installs quickly for improved productivity (select cross sections)

†This is an estimated life expectancy and not a guarantee of life in an application
‡Reference your local regulatory requirements to ensure compliance with approved recycling methods

PIR Miniature Cross Section	
Black PIR Nylon 6.6:	**PLT1M-C360** **PLT1M-M360**
PIR Intermediate Cross Section	
Black PIR Nylon 6.6:	**PLT1.5I-C360** **PLT1.5I-M360**
PIR Standard Cross Section	
Black PIR Nylon 6.6:	**PLT2S-C360** **PLT2S-M360** **PLT3S-C360** **PLT3S-M360** **PLT4S-C360** **PLT4S-M360**
PIR Light-Heavy Cross Section	
Black PIR Nylon 6.6:	**PLT4H-TL360** **PLT4H-TL360/147** **PLT7LH-C360** **PLB4H-TL360**
PIR Extra-Heavy Cross Section	
Black PIR Nylon 6.6:	**PLT5EH-C360** **PRT5EH-C360** **PLDC2.5EH-C360** **PLWS4EH-TL360**
PIR Cable Tie Push Mount Assembly (Standard Cable Tie)	
Black PIR Nylon 6.6	**PUM-049-2S-D360**
PIR Push-in Cradle Mount with Cable Tie	
Black PIR Nylon 6.6:	**TCM1X63-2S-D360**
Recommended Installation Tools	
Hand tools: Tool controlled tension and cut-off:	**GTS-E, 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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TECHNICAL INFORMATION

Tensile @ yield @ 73°F (psi):	8,412 per ISO 527
Water absorption (24 hours):	1.2% per ASTM D570
Weathering life expectancy† (years)/ UV resistance:	10
Max. continuous use temperature:	239°F (115°C) per UL 746B
Min. continuous use temperature:	-76°F (-60°C) per UL 746B
Min. installation temperature:	-4°F (-20°C)
Halogen-free:	Yes
Heat deflection temperature @ 1.8 Mpa:	151°F (66°C) per ASTM D648 ISO 75 - 1/-2
Chemical resistance:	High
Salts:	Low
Hydrocarbons (gas, oil, lubricants):	Excellent
Chlorinated hydrocarbons:	High
Base:	High
Acid rain:	Low
Impact resistance:	High

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

ORDERING INFORMATION

Part Number	Used with PIR Nylon 6.6 Cable Ties	Description	Std. Pkg. Qty.
Tool Controlled Tension and Cut-off Tools			
GTS-E, GS2B-E	Subminiature, Miniature, Intermediate, Standard	Tool controlled tension tool consistently provides flush tie cut-offs to speed installation	1
GS4H-E, GTH-E	Standard, Heavy-Standard, Light-Heavy, Heavy		
GS4EH-E	Light-Heavy, Heavy, Extra-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, Heavy-Standard, Light-Heavy, Heavy		
ST3EH	Light-Heavy, Heavy, Extra-Heavy		
Pneumatic Tools			
PTS	Subminiature, Miniature, Intermediate, Standard	Pneumatic, push-button operation tools tension and cut off excess tie length in a fraction of a second	1
PPTS	Miniature, Intermediate Standard		
PTH	Standard, Heavy-Standard, Light-Heavy, Heavy		

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APPLICATIONS

Made with up to 100% post-industrial recycled (PIR) Nylon 6.6, these innovative products provide added value through superior quality, high reliability, and environmental sustainability credits across many industries. These Nylon-based cable ties are ideal for indoor and outdoor wire and cable management applications, with an expected weathering life of up to 10 years†.

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. PIR Nylon 6.6 cable tie and mount products are moisture conditioned and sealed in heavy-wall, polyethylene heat-sealed bags during manufacturing to ensure optimal performance during installation.

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ORDERING INFORMATION

Part Number	Mounting Method	Max. Bundle Diameter In. (mm)	Footprint (Ø) In. (mm)	Panel to Top of Mount In. (mm)	Overall Height In. (mm)	Hole Size Range In. (mm)	Min. Loop Tensile Strength Lbs (N)	Panel Thickness Range In. (mm)	Std. Pkg. Qty.‡	Bulk Pkg. Qty. ‡
Cable Tie Push Mount Assembly										
PUM-049-2S-D360♦	Fir Tree	1.88 (47.8)	0.67 (17)	0.26 (6.6)	0.54 (13.8)	0.18-0.19 (4.6-4.9)	35 (156)	0.03-0.12 (0.7-3.0)	500	5,000

♦PLT2S cable tie included in assembly. This cable tie is manufactured with Post-Industrial Recycled (PIR) Nylon 6.6 material. It is impact modified, heat-stabilized, and UV resistant. Can be used with the following installation tools: GTS-E; GS2B-E; GTH-E; GS4H-E; PTS; PTH; PPTS; STS2; STH2

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

Part Number	Type of Fastening	Maximum Compatible Panel Thickness In. (mm)	Length In. (mm)	Width In. (mm)	Overall Height In. (mm)	Suitable for Cable Tie Width To	For Max. Bundle Dia. In. (mm)	Min. Loop Tensile Strength Lbs. (N)	Pkg. Qty.	Bulk Qty.
Cable Tie Push-In Cradle Mount Assembly										
TCM1X63-2S-D360	Push Barb	0.12 (3)	7.4 (188)	0.75 (19)	0.48 (12.2)	0.19 (4.8)	0.63 (16)	35 (156)	500	4,000

Requires user-supplied frame or bracket with pocket/cutout dimensions 0.94" x 0.60" (23.8mm x 15.3mm).
Allowable frame thickness of 0.08" to 0.12" (2.0mm to 3.0mm).

Part Number	Type of Fastening	Screw Size	Length In. (mm)	Width In. (mm)	Overall Height In. (mm)	Cable Tie Compatibility	Pkg. Qty.	Bulk Qty.
Wing Clamp Tie Mount								
TMWCS6-C360	Screw-On	M6 (metric) or 1/4 (imperial)	3.2 (81.3)	0.8 (20.3)	1.3 (33.3)	PLWS4EH-TL360 Recommended; Compatible with any PIR cable ties	100	1500

For heavy duty applications, this mount works with a cable tie to anchor and secure loom tubing, hoses and/or pneumatic lines.

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Part Number	Length In. (mm)	Width In. (mm)	Thickness In. (mm)	Max. Bundle Dia. In. (mm)	Min. Bundle Dia. In. (mm)	Min. Loop Tensile Strength Lbs. (N)	Recommended Installation Tool	Pkg. Qty. ‡	Bulk Qty.
Miniature Cross Section									
PLT1M-C360	3.9 (99)	0.089 (2.5)	0.043 (1.1)	0.87 (22)	0.06 (1.6)	12 (53)	GTS-E, GS2B-E, PTS, PPTS, STS2	100	1,000
PLT1M-M360								1,000	50,000
Intermediate Cross Section									
PLT1.5I-C360	5.6 (142)	0.142 (3.6)	0.045 (1.1)	1.38 (35)	0.06 (1.6)	26 (116)	GTS-E, GS2B-E, PTS, PPTS, STS2	100	1,000
PLT1.5I-M360								1,000	25,000
Standard Cross Section									
PLT2S-C360	7.4 (188)	0.190 (4.8)	0.052 (1.3)	1.88 (47)	0.06 (1.6)	35 (156)	GTS-E, GS2B-E, GTH-E, GS4H-E, PTS, PTH, PPTS, STS2, STH2	100	1,000
PLT3S-C360	11.5 (292)			3.0 (76)					
PLT4S-C360	14.5 (368)			4.0 (102)					
PLT2S-M360	7.4 (188)			1.88 (47)				1,000	10,000
PLT3S-M360	11.5 (292)			3.0 (76)					
PLT4S-M360	14.5 (368)			4.0 (102)					5,000
Light-Heavy Cross Section									
PLT4H-TL360	14.5 (368)	0.3 (7.6)	0.075 (1.9)	4.0 (102)	0.188 (4.8)	75 (334)	GTH-E, GS4H-E, GS4EH-E, PTH, ST2H, ST3EH,	250	2,500
PLT4H-TL360/147			0.06 (1.5)	4.11 (104.5)					
PLT7LH-C360	24.7 (627)		0.075 (1.9)	7.00 (178)				100	2,000
PLB4H-TL360◊	14.7 (373)			3.6 (91)	0.31 (7.9)	100 (445) Both Loops	GTH-E, GS4H-E, GS4EH-E, PTH, STH2, ST3EH	250	2,500
Extra-Heavy Cross Section									
PLT5EH-C360	20.1 (511)	0.5 (12.7)	0.075 (1.9)	5.00 (127)	0.50 (12.7)	200 (890)	GS4EH-E, ST3EH	100	1,000
PRT5EH-C360	20.1 (511)	0.5 (12.7)	0.075 (1.9)	5.00 (127)	0.50 (12.7)		N/A	100	1,000
PLDC2.5EH-C360	19.2 (489)	0.5 (12.7)	0.055 (1.4)	2.3 (58)	0.20 (5.1)	130 (578)	GTH-E, GS4EH-E	100	500
PLWS4EH-TL360	15.1 (384)	0.5 (12.7)	0.055 (1.4)	4.13 (105)	0.38 (9.5)	100 (445)	GS4EH-E, PPTEH	250	2,500

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

◊ This is a double loop cable tie

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