

# Metal Detectable Cable Ties and Mounts

Pan-Ty® Metal Detectable Cable Ties and Mounts are designed to help the food, beverage, and pharmaceutical industries meet product manufacturing safety standards. Featuring metal impregnated material, these metal detectable products are identifiable by metal detectors and x-ray inspection equipment. Panduit metal detectable products help companies comply with the U.S. Food and Drug Administration HACCP\* standards and the European Union (EU) hygiene monitoring regulations. Additionally, the distinct blue color facilitates quick visual detection. Metal detectable cable ties and mounts are available in either nylon material for general purpose applications or polypropylene material which provides superior resistance to harsh cleaning chemicals. The GT series of tools captures the cut-off tips of ties to help further prevent process stream contamination. The Pan-Ty® Metal Detectable Cable Ties, Cable Tie Mounts, and Installation Tools deliver a complete bundling solution to help reduce product contamination and loss.



\*HACCP = Hazard Analysis and Critical Control Points – a systematic preventive approach to food and pharmaceutical safety that addresses hazards as a means of prevention rather than finished product inspection.

## Key Features

## Benefits

### Cable Ties and Mounts

<b>Metal impregnated material</b>	Allows a cable tie or cable tie mount to be identified by metal detectors or x-ray inspection equipment helping to reduce contamination in finished products
	Contributes to compliance of manufacturing standards and HACCP regulations to demonstrate due diligence for consumer safety and quality inspections
<b>Choice of polypropylene or nylon material</b>	Suitable for use in a variety of environments, including areas subjected to harsh cleaning solvents providing long term durability (see material properties chart on page 2)
<b>Blue color</b>	Distinct color per common industry practices provides easy identification on conveyor belts and in finished products, reducing waste due to product contamination

### Cable Ties

<b>One-piece cable tie design with locking wedge</b>	Provides low thread force for easy and reliable installation which improves productivity and reduces the potential for operator fatigue
<b>Curved tip</b>	Easy to pick up tie from flat surfaces; allows faster initial threading
<b>Smooth, round edges</b>	Safe and easy for installers to use, won't damage cable

### **NEW!** Mounts

<b>Cradle design mount</b>	Holds cables securely in place; provides maximum stability for cable bundle
<b>Low profile design mount</b>	Keeps bundle close to mounting surface and conserves space

# Metal Detectable Cable Ties and Mounts

## Ordering Information

**NEW!**

### Polypropylene Metal Detectable Products

- For use in processing and packaging areas where aggressive acid and alkaline chemicals are used to clean the equipment
- Excellent chemical resistant cable tie and mount solution for food and pharmaceutical processing equipment manufacturing applications

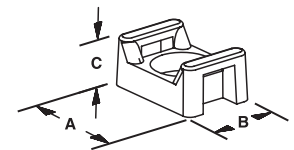


### Cable Ties

Part Number	Length In. (mm)	Width In. (mm)	Thickness In. (mm)	Head Height In. (mm)	Head Width In. (mm)	Max. Bundle Diameter In. (mm)	Min. Loop Tensile Strength Lbs. (N)	Recommended Tools	Std. Pkg. Qty.*
<b>Miniature Cross Section</b>									
PLT1M-C186	3.9 (100)	.098 (2.5)	.044 (1.1)	.186 (4.8)	.188 (4.8)	.87 (22)	15 (67)	GTS, GTSL	100
<b>Intermediate Cross Section</b>									
PLT2I-C186	8.0 (203)	.135 (3.4)	.047 (1.2)	.180 (4.6)	.240 (6.1)	2.00 (51)	24 (107)	GTS, GTSL	100
<b>Standard Cross Section</b>									
PLT2S-C186	7.3 (186)	.190 (4.8)	.057 (1.4)	.240 (6.1)	.320 (8.1)	1.85 (47)	30 (133)	GTS, GTSL, GTH	100
PLT3S-C186	11.5 (291)					3.00 (76)			100
PLT4S-C186	14.4 (366)					4.00 (102)			100
<b>Light-Heavy Cross Section (Straight Tip)</b>									
PLT3H-L186	11.1 (282)	.300 (7.6)	.075 (1.9)	.360 (9.1)	.480 (12.2)	3.00 (76)	60 (267)	GTH	50
PLT4H-L186	14.4 (366)					4.00 (102)			50

### NEW! Cable Tie Mounts

Part Number	Used With Cable Ties	A Width In. (mm)	B Length In. (mm)	C Height In. (mm)	Counterbore Diameter In. (mm)	Mounting Method	Std. Pkg. Qty.*
TM2S8-C186	Min., Int., Std.	.630 (16.0)	.422 (10.7)	.275 (7.0)	.325 (8.3)	#8 (M4) screw	100
TM3S8-C186	Std.,	.867(22.0)	.614 (15.6)	.373 (9.5)	.325 (8.3)	#8 (M4) screw	100
TM3S10-C186	Lt. Hvy.				.385 (9.8)	#10 (M5) screw	100



\*Order number of pieces required in multiples of standard package quantity.

### Technical Information Chart

Material Properties	Nylon 6.6	Polypropylene
Max. Continuous Use Temperature per Test Method UL 746B	185°F (85°C)	239°F (115°C)
Tensile Strength	High**	Moderate**
Water Absorption (24 hours) per ASTM D570	1.2% (absorbs water)	0.1% (resists water absorption)
Chemical Resistance		
Inorganic and Organic Acids	Good	Excellent
Alkaline Cleaners	Good	Excellent
Disinfectants and Sanitizers	Good	Excellent
Color	Light Blue	Dark Blue

Note: Polypropylene material is recommended for use with strong alkaline and acid based cleaners that are used in high concentrations and where extended cleaning soak times are the norm. In applications where temperatures run over 239°F (115°C), stainless steel ties and mounts are recommended (see back page).

\*\*For exact Minimum Loop Tensile Strength information for each part number, please refer to table (above and on next page).

# Metal Detectable Cable Ties and Mounts

## Ordering Information

### Nylon Metal Detectable Products

- Excellent solution for general purpose maintenance and repair applications
- Ideal for use in control panels and overhead cable runs

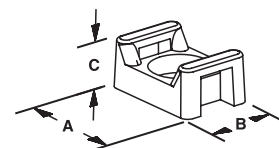


### Cable Ties

Part Number	Length In. (mm)	Width In. (mm)	Thickness In. (mm)	Head Height In. (mm)	Head Width In. (mm)	Max. Bundle Diameter In. (mm)	Min. Loop Tensile Strength Lbs. (N)	Recommended Tools	Std. Pkg. Qty.*
<b>Miniature Cross Section</b>									
PLT1M-C86	3.9 (100)	.098 (2.5)	.044 (1.1)	.186 (4.8)	.188 (4.8)	.87 (22)	18 (80)	GTS, GTSL	100
<b>Intermediate Cross Section</b>									
PLT2I-C86	8.0 (203)	.135 (3.4)	.047 (1.2)	.180 (4.6)	.240 (6.1)	2.00 (51)	40 (178)	GTS, GTSL	100
<b>Standard Cross Section</b>									
PLT2S-C86	7.3 (186)	.190 (4.8)	.057 (1.4)	.240 (6.1)	.320 (8.1)	1.85 (47)	50 (222)	GTS, GTSL, GTH	100
PLT3S-C86	11.5 (291)					3.00 (76)			100
PLT4S-C86	14.4 (366)					4.00 (102)			100
<b>Light-Heavy Cross Section (Straight Tip)</b>									
PLT3H-L86	11.1 (282)	.300 (7.6)	.075 (1.9)	.360 (9.1)	.480 (12.2)	3.00 (76)	120 (534)	GTH	50
PLT4H-L86	14.4 (366)					4.00 (102)			50

### **NEW!** Cable Tie Mounts

Part Number	Used With Cable Ties	A Width In. (mm)	B Length In. (mm)	C Height In. (mm)	Counterbore Diameter In. (mm)	Mounting Method	Std. Pkg. Qty.*
TM2S8-C86	Min., Int., Std.	.630 (16.0)	.422 (10.7)	.275 (7.0)	.325 (8.3)	#8 (M4) screw	100
TM3S8-C86	Std., Lt. Hvy.	.867 (22.0)	.614 (15.6)	.373 (9.5)	.325 (8.3)	#8 (M4) screw	100
TM3S10-C86					.385 (9.8)	#10 (M5) screw	100



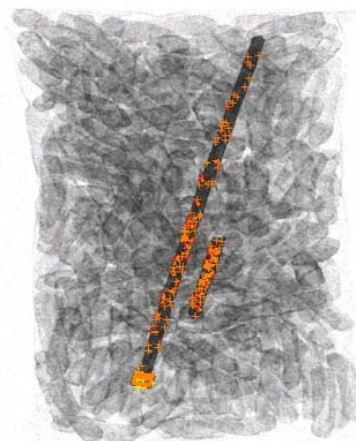
\*Order number of pieces required in multiples of standard package quantity.

Panduit cable ties and mounts are detectable by a variety of methods to help reduce product contamination and associated recall risks:

- Metal detectors
- X-ray inspection equipment
- Visual detection

### Quality Assurance

All cable tie and mount packages contain a quality control number for complete product traceability; each lot passes metal detection as part of final product verification.

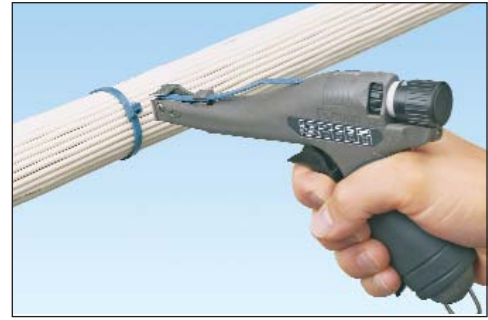


Example x-ray image of metal detectable cable tie in finished product

# Metal Detectable Cable Ties and Mounts

## Cable Tie Installation Tools

Pan-Ty® Metal Detectable Cable Ties can be installed using Panduit GT series of ergonomic hand tools that capture cut-off tips of the ties during installation to help prevent product contamination. Panduit cable tie installation tools provide consistent results and speed installation to reduce installed cost.



Additional Benefits:

- Flush tie cut-off eliminates sharp edges and improves worker safety
- Lightweight, ergonomic, comfortable and easy to use



**GTS**

Installs PLT1M, PLT2I, PLT2S, PLT3S, PLT4S cable ties.



**GTSL**

Installs PLT1M, PLT2I, PLT2S, PLT3S, PLT4S cable ties.



**GTH**

Installs PLT2S, PLT3S, PLT4S, PLT3H, PLT4H cable ties.

## Related Products

### Stainless Steel Cable Ties and Mounts

When strength, vibration, corrosion and temperature extremes are a factor, Pan-Steel® Stainless Steel Cable Ties and Mounts provide a strong, reliable system for cable bundling and mechanical fastening applications in harsh environments.

- Available in 304 and 316 grade stainless steel
- Cable tie loop tensile strength up to 1,200 Lbs.
- Continuous working temperatures up to 1000°F (538°C)



PANDUIT CANADA  
Markham, Ontario  
cs-cdn@panduit.com  
Phone: 800.777.3300



CABLE JOINTS, CABLE TERMINATIONS, CABLE GLANDS, CABLE CLEATS  
FEEDER PILLARS, FUSE LINKS, ARC FLASH, CABLE ROLLERS, CUT-OUTS

11KV 33KV CABLE JOINTS & CABLE TERMINATIONS  
FURSE EARTHING  
www.cablejoints.co.uk  
Thorne and Derrick UK

Tel 0044 191 490 1547 Fax 0044 191 477 5371  
Tel 0044 117 977 4647 Fax 0044 117 9775582

For more information

Visit us at [www.panduit.com](http://www.panduit.com)

Contact Customer Service by email: [cs@panduit.com](mailto:cs@panduit.com)  
or by phone: 800-777-3300 and reference CTCB37

PANDUIT AUSTRALIA PTY. LTD.  
Victoria, Australia  
cs-aus@panduit.com  
Phone: 61.3.9794.9020

**PANDUIT®**

©2009 Panduit Corp.  
ALL RIGHTS RESERVED.  
Printed in the U.S.A.  
Product Bulletin Number SA-CTCB37  
7/2009