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Overview

Trust Ty-Rap® to securely fasten your cables!

Installers Know and Trust Ty-Rap® High-Performance Fastening Products from Thomas & Betts

Wire bundling is an integral part of modern electrical and electronic installations. To finish your harnessing and bundling project as reliably and economically as possible, choose genuine Ty-Rap® cable ties. These fastening systems include a full range of cable ties, identification ties, clamps, bases, harnessing aids and installing tools. Using Ty-Rap® fastening systems for all wiring jobs, large and small, will speed and improve the reliability of harnessing and wire bundling while saving you money.

Point-to-point and Long Distance Wiring

- Bundling & fastening cables between equipment
- Panel & Machine Tool Builders
- Industrial & Commercial Applications, Refineries, Office Buildings

Installers prefer the ease of use and exceptional durability of genuine Ty-Rap® cable ties. Engineered for labor savings and high performance, Ty-Rap® cable ties are commonly used in a variety of applications. Standoffs, bulkhead mounting bases, adhesive mounting bases and a wide variety of clamping devices will meet or exceed any requirements. Weatherable and special material Ty-Rap® cable ties are exceptionally suited for years of service in extreme environments.

Harnessing

- Harness Board pre-wiring prior to installation
- Large OEMs-Automotive, Aerospace, Computers, Electronics, Copiers, appliances and other Durable Goods



T&B® fastening systems for large volume cable tying combine high-speed ergonomically designed automatic and semi-automatic tools, along with a wide selection of ties and harnessing aids to meet your application requirements.

Accessories include various harnessing aids, retainers, supports, posts, pins and guides that allow the wire to be quickly routed with or without the use of nails.

Overview

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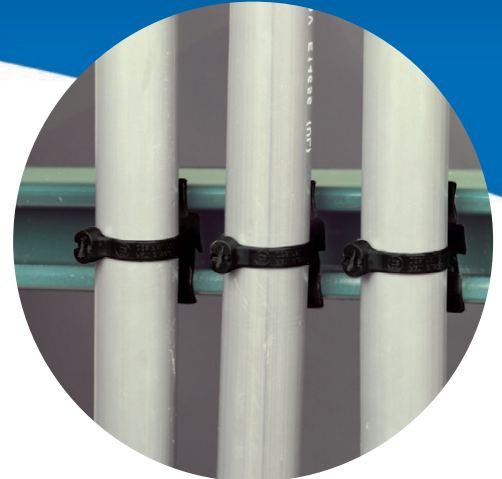
Other Applications

- HVAC
- Recreational
- Telecom & Utility
- Packaging

Ty-Rap® cable ties are remarkably well suited for a variety of other non-electrical applications. Ty-Rap® cable ties exceed UL requirements for smoke developed and heat release for use in air handling spaces.

Ty-Rap® cable ties meet international standards such as CSA and CE as well as UL, , Belcor, ADC and military specifications in North America.

T&B® also offers a complete stainless steel Deltec™ cable fastening system for demanding and weather-resistant applications. Choose genuine Ty-Rap® cable ties for the rugged “Grip of Steel®”. Look for the oval head.



Tools

Ty-Rap® installing tools finish the installation of the cable tie. Ties are cinched to the proper tension and the excess tail is cut off precisely flush with the head, leaving no sharp corners or ragged edges. Ty-Rap® installing tools have narrow noses and slim profiles for work in tight spaces or between harness board nails. The operation is quick, reliable and cost effective.

Cable Fastening Accessories

Choose from one of the largest assortments of mounting bases, clips and clamps, spacers, lashing straps, harness board accessories, braided wire sleeve, and accessories for heavy-duty lashing. Use Thomas & Betts cable fastening accessories for the finishing touch on your next wiring project.

Overview

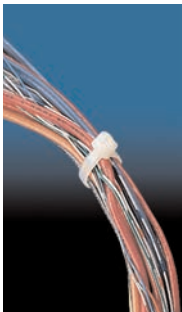
Choose Genuine Ty-Rap® High-Performance Cable Ties for Quality, Performance and Innovation.

The original oval, Low-Profile Head gives a professional, quality look to wire bundling projects. The classic-shaped head is designed to prevent snags on uneven surfaces and is easier to pull through bulkheads. There are no sharp edges, so these ties are also easier on the installer's hands.



The Turned-up Tail makes the tie easier to pick up off a flat surface and provides the ability to orient the cable tie for easy assembly without looking down — perfect for blind or repetitive applications.

No-Slip Tail provides extra grip during tensioning.



For a whole bundle of reasons, trust only Genuine Ty-Rap^{md} High-Performance Attaches pour câbles by Thomas & Betts in your next wiring installation.

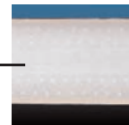
The original oval, high-performance cable ties
Invented in 1958

"The Grip of Steel"[™] Non-Hydroscopic Stainless Steel Locking Device ensures maximum performance, strength and life.

Versatile Nylon 6/6 Material provides high strength and a wide temperature range. Ty-Rap® High-Performance Cable Ties are also available in a wide range of other materials for a variety of extreme environments.

Smooth, Notchless Body reduces stress concentration points under tension, making the tie stronger and increasing life expectancy, especially in changing environments.

Ribbed and Stippled Body grips the bundle and prevents slippage.



Overview

Type Classifications Explained

The Ty-Rap® Advantage:

- Ty-Rap® cable ties identified in this catalogue as TYPE 21S are certified to meet the requirements of TYPE 21S.
 - TYPE 21S is a 2015 CEC requirement that stipulates that «cable ties is a type specifically approved for the purpose» can be used as a method of supporting for:
 - Cable (clauses 12-510, 12-706).
 - Flexible metal conduit (clause 12-1010).
 - Liquidtight flexible conduit (clause 12-1308) and.
 - Electrical nonmetallic tubing (clause 12-1504).

New

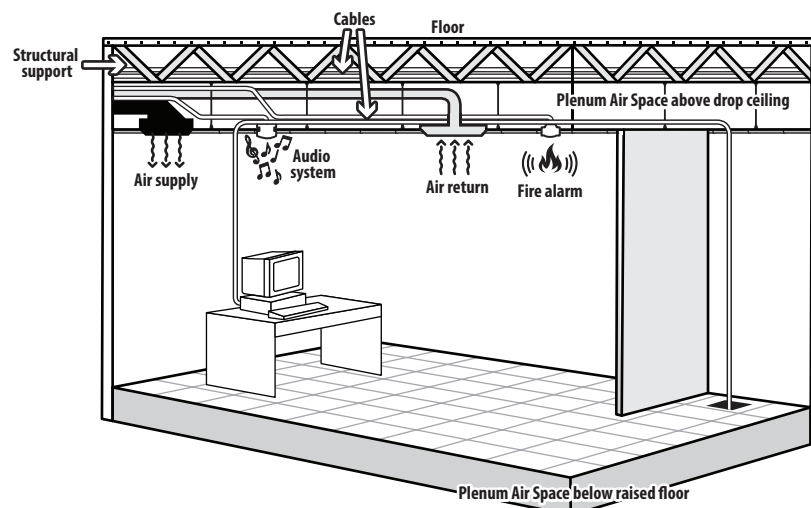
Note: Please check with your local inspection authority if TYPE 21S has been approved for use in your jurisdiction as a support method. Adoption of the CEC 2015 differs by province.

- Ty-Rap® product line includes a wide range of AH-2 plenum-rated cable ties.
 - AH-2 is a 2015 CEC rating for air-handling spaces (drop ceilings, raised floors, etc.)

Plenum Ratings:

If a cable tie is identified as suitable for use in air-handling spaces, the following plenum rating is declared, AH-1 or AH-2.

New Short-Form Coding (proposed)	Product Type	Standard Label Marking
AH-1	Metallic Cable Ties and Fixing Devices	"Suitable for use in Air-Handling Spaces (plenums)" in accordance with Section 300.22 (B), (C), and (D) of the National Electrical Code, and Rules 12-010 (3), (4), and (5), and 12-020 of the Canadian Electrical Code, Part I or an equivalent wording.
AH-2	Nonmetallic or Composite Cable Ties and Fixing Devices	"Suitable for use in Air-Handling Spaces (plenums)" in accordance with Section 300.22 (C), and (D) of the National Electrical Code, and Rules 12-010 (3), (4), and (5), and 12-020 of the Canadian Electrical Code, Part I or an equivalent wording.



Overview

Type Classifications Explained

The new Canadian CSA 62275 standard, cable ties for electrical installations replaces standard CSA C22.2 No.18.5 (Positioning Devices). The new standard was adopted on June 1, 2014.

It is based on the international standard IEC 62275 (Cable Management Systems-Cable Ties for Electrical Installations). It is harmonized with U.S standard UL 62275 and Mexican standard NMX-623-ANCE Products conforming to the new standard will be identified by new “**TYPE**” classifications and “**Standard performance ratings**”.

The “Type” classification in the latest standard is based on the demonstrated ability of the product to retain its mechanical performance both before and after exposure to various application conditions.



21S

Nonmetallic, composite and all Cable tie fixing devices

Type 21S cable ties pass the same tests as Type 2 but must also have additional qualifications for suitability to support flexible conduit and cables for building construction in accordance to national installation codes.

- ● TY25M, TY25M-2, TY25XM, TY28M, TY28M-2, TY28MX



21

Nonmetallic, composite and all Cable tie fixing devices


Type 21 cable ties pass the same tests as Type 2 but are made from a UL recognized material. In addition, they pass pre-qualifications to long-term performance characteristics of nonmetallic molding materials.

- ●



1

Nonmetallic and composite Cable tie

Retains at least 50% of declared loop tensile strength after all test conditions. Equivalent to , the component recognition mark for UL.

-

Overview

Type Classifications Explained



11

Nonmetallic and composite Cable tie

Type 11 cable ties pass the same tests as Type 1 but are made from a UL recognized material. In addition, they pass pre-qualifications to long-term performance characteristics of nonmetallic molding materials.



2

Metallic, nonmetallic, composite and all cable tie fixing devices

Retains at least 100% of declared loop tensile strength after all test conditions.



2S

Metallic, nonmetallic, composite and all cable tie fixing devices

Type 2S cable ties pass the same tests as Type 2 but must also have additional qualifications for suitability to support flexible conduit and cables for building construction in accordance to national installation codes. The key here is that metallic can only be 2S, but composite can be 2S or 21S.



The new CSA 62275 standard for cable ties and accessories defines the terms and performance in each performance rating category:

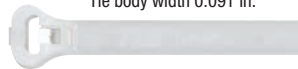
Performance Rating Categories:

- Mechanical (Minimum loop tensile strength is a reference mechanical characteristic of a cable tie with its locking mechanism engaged.)
- Thermal - indicating minimum and maximum operating temperature for application and minimum temperature for installation
- Fire effects - reflecting degree of resistance to flammability
- Environmental - reflecting resistance of nonmetallic or composite materials to UV light and of metallic cable ties and accessories (or those containing metal) to corrosion

Cable Ties



TY523M
Tie body width 0.091 in.



TY524
Tie body width 0.140 in.



TY525M
Tie body width 0.184 in.



TY5272M
Actual size body width 0.270 in.



Std. Cat. No.	Bulk Cat. No.	Type DSG	Plenum Rating	Usage	ANSI UL94 Flame Rating	Body Width (in./mm)	Length (in./mm)	Max. Wire Bundle Dia. (in./mm)	Military Standard Part No.	Tensile Strength (lb./N)	Std. Pkg.	Bulk Pkg.
Ty-Rap® Standard Nylon 6/6 Cable Ties												
TY523M	TY23M	2/21	AH-2	Indoor Only	V-2	0.09/2.29	3.62/91.95	0.87/22.00	MS3367-4	18/80.00	100	1,000
TY52315M	TYB2315M						7.00/177.80	1.25/32.00	–			
TY5232M	TY232M						8.00/203.20	2.00/51.00	–			
TY5234M	TY234M						14.00/355.60	4.00/102.00	–			
TY524M	TY24M					0.14/3.56	5.50/139.70	1.38/35.00	MS3367-5	40/180.00		
TY5242M	TY242M						8.19/208.03	2.00/51.00	–			
TY526M	TY26M						11.10/281.94	3.00/76.00	–			
TY5244M	TY244M						14.50/368.30	4.00/102.00	–			
TY525M	TY25M	2S/21S	AH-2	Indoor Only	V-2	0.19/4.83	7.31/185.67	1.89/48.00	MS3367-1	50/222.00		
TY5253M	TY253M						11.60/294.64	3.00/78.00	MS3367-7			
TY528M	TY28M						14.20/360.68	4.00/102.00	MS3367-2			
TY5272M	TY272M					0.27/6.86	8.75/222.25	2.00/51.00	–	120/540.00		
TY527M	TY27M	13.40/340.36	4.00/102.00	MS3367-3								
TY5275M	TY275M	18.00/457.20	5.00/127.00	–								
TY5277M	TY277M	24.30/617.22	7.00/177.00	–								
TY529M	TY29M	N/A	N/A	Indoor Only	V-2	0.32/8.13	30.00/762.00	9.00/229.00	MS3367-6	175/778.40		
TY53510M**	–						35.00/889.00	10.00/254.00	–			
TY54513M**	–						45.00/330.20	13.00/330.20	–			

Cable ties made from natural nylon 6/6 are excellent performers in most applications. Nylon 6/6 is recommended for use in temperatures ranging from -60°C to 85°C (-76°F to 185°F). CSA Certified file 002884. Natural 6/6 Nylon Cable Ties are suitable for use in air handling plenum spaces in accordance with rules 12-010 (3), (4) and (5), and 12-020 of the CEC.

** Halogen free, Silicone free
UL recognized models.

Cable Ties



TY523MX
Tie body width 0.091 in.



TY524MX
Tie body width 0.140 in.



TY525MX
Tie body width 0.184 in.



TY5272MX
Actual size body width 0.270 in.

The MX Series cable ties are recommended for outdoor use.



Std. Cat. No.	Bulk Cat. No.	Type DSG	Plenum Rating	Usage	ANSI UL94 Flame Rating	Body Width (in./mm)	Length (in./mm)	Max. Wire Bundle Dia. (in./mm)	Military Standard Part No.	Tensile Strength (lb./N)	Std. Pkg.	Bulk Pkg.	
Ty-Rap® Nylon 6/6 – Weather-Resistant													
TY523MX	TY23MX	2/21	AH-2	Indoor/ Outdoor	V-2	0.09/2.29	3.62/91.95	0.87/22.00	MS3367-4	18/80.00	100	1,000	
TY52315MX	TYB2315MX						7.00/177.80	1.25/32.00	–				
TY5232MX	TY232MX						8.00/203.20	2.00/51.00	–				
TY5234MX	TY234MX						14.00/355.60	4.00/102.00	–				
TY524MX	TY24MX					0.14/3.56	5.50/139.70	1.38/35.00	MS3367-5	40/180.00			
TY5242MX	TY242MX						8.19/208.03	2.00/51.00	–				
TY526MX	TY26MX						11.10/281.94	3.00/76.00	–				30/130.00
TY5244MX	TY244MX						14.50/368.30	4.00/102.00	–				
TY525MX	TY25MX	0.19/4.83	7.31/185.67	1.89/48.00	MS3367-1	50/220.00							
TY5253MX	TY253MX		11.60/294.64	3.00/78.00	MS3367-7								
TY528MX	TY28MX		14.20/360.68	4.00/102.00	MS3367-2								
TY5272MX	TY272MX	2S/21S	N/A	Indoor/ Outdoor	HB	0.27/6.86	8.75/222.25	2.00/51.00	–	120/540.00	50	500	
TY527MX	TY27MX						13.40/340.36	4.00/102.00	MS3367-3				
TY5275MX	TY275MX						18.00/457.20	5.00/127.00	–				
TY5277MX	TY277MX						24.30/617.22	7.00/177.00	–				
TY529MX	TY29MX*	N/A	N/A	Indoor/ Outdoor	N/A	0.32/8.13	30.00/762.00	9.00/229.00	MS3367-6	175/778.40	–		
TY53510MX**	–						35.00/889.00	10.00/254.00	–				
TY54513MX**	–						45.00/1143.00	13.00/330.20	–				

* For military compliance of weather-resistant black 120 lb. ties, replace suffix X with O (i.e. TY27M-O).

**

Halogen free, Silicone free

CSA Certified file 002884. Natural 6/6 Nylon Cable Ties are suitable for use in air handling plenum spaces in accordance with rules 12-010 (3), (4) and (5), and 12-020 of the CEC.

Nylon 6/6 is recommended for use in temperatures ranging from -60°C to 85°C (-76°F to 185°F).

Cable Ties



Std. Pkg. Cat. No.	Body Width (in./mm)	Length (in./mm)	Max. Wire Bundle Dia. (in./mm)	Tensile Strength (lb./N)	Std. Pkg.
Ty-Rap® Nylon 6/6 Cable Tie – Colour Assortment					
TY525M-CLRS	0.19/4.83	7.31/185.67	1.75/44.45	50/222.00	100

Cable ties are same size as TY525M shown above. 10 ties in each colour (black, brown, red, orange, yellow, green, blue, purple, grey & white) are packaged. 100 total cable ties per package.



The colours you need in convenient packs!

Ty-Rap® Nylon 6/6 Cable Ties – Colour Assortment

- Construction – nylon 6/6, 316 stainless steel locking device

Std. Cat. No.	Bulk Cat. No.	Description	Type DSG	Plenum Rating	Usage	ANSI UL94 Flame Rating	Body Width (in./mm)	Length (in./mm)	Max. Wire Bundle Dia. (in./mm)	Tensile Strength (lb./N)	Std. Pkg.
–	TY525M-CLRS	Multi-Coloured Natural Nylon (10 each of standard ten colours)	2S/21S	AH2	Indoor Only	V2	0.19/4.83	7.31/185.67	1.89/48.00	50/222.00	100
–	TY25M-0	Black, Natural Nylon									1000
–	TY25M-1	Brown, Natural Nylon									1000
–	TY25M-2	Red, Natural Nylon									1000
–	TY25M-3	Orange, Natural Nylon									1000
–	TY25M-4	Yellow, Natural Nylon									1000
–	TY25M-5	Green, Natural Nylon									1000
–	TY25M-6	Blue, Natural Nylon									1000
–	TY25M-7	Purple, Natural Nylon									1000
–	TY25M-8	Grey, Natural Nylon									1000
–	TY25M-9	White, Natural Nylon	1000								

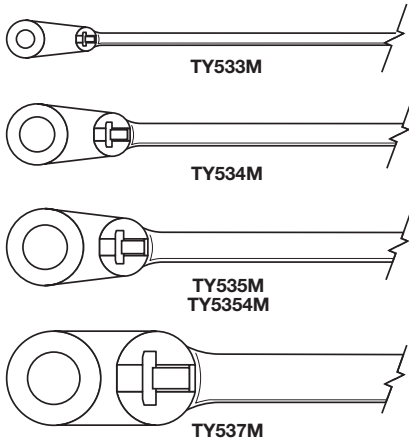
For use in temperatures ranging from -60°C to 85°C (-76°F to 185°F)

- UL Listed Natural Nylon 6/6 Cable Ties are suitable for use in air handling spaces (plenums) in accordance with rules 12-010 (3), (4) and (5), and 12-020 of the CEC part I
- CSA Certified file 002884
- 100 standard ties in black, brown, red, orange, yellow, green, blue, purple, grey and white (10 each)
- Recommended tooling – ERG-50, WT1-TB

Natural nylon is standard. For coloured Ty-Rap® ties, add the following suffix numbers to catalogue numbers. **Example:** TY25M-2 would be red TY25M. (Consult Regional Sales Office for ordering information.)

Colour	Suffix No.	Colour	Suffix No.	Colour	Suffix No.	Colour	Suffix No.
Black	X	Red	2	Green	5	Grey	8
(outdoor)		Orange	3	Blue	6	White	9
Brown	1	Yellow	4	Purple	7		

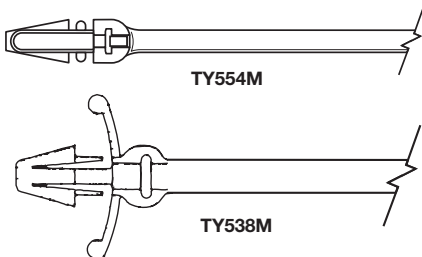
How to Order Coloured Ty-Rap® Cable Ties and Accessories



Great for use with screws, nuts and bolts for secure fastening to surfaces.

Std. Cat. No.	Bulk Cat. No.	Body Width (in./mm)	Length (in./mm)	Max. Wire Bundle Dia. (in./mm)	Mounting Hole	Tensile Strength (lb./N)	Std. Pkg.	Bulk Pkg.
Ty-Rap® Mounting Head Cable Ties								
TY533M	TY33M	0.09/2.29	4.00/101.60	0.63/16.00	#4	18/80.07	100	1,000
TY534M	TY34M	0.14/3.56	6.00/152.40	1.13/28.70	#8	40/177.90		
TY535M	TY35M	0.18/4.57	7.80/198.12	1.75/44.45	#10	50/222.40		
TY5354M	TY354M		14.60/370.84	4.00/101.60	#10			
TY1435M	-	0.19/4.83	7.80/198.12	1.77/44.96	0.248		-	
TY635M	-				0.138			
TYF535M	TYF35M		7.24/183.90		0.138	100		
TY537M	TY37M	0.30/7.62	13.90/353.06	3.50/88.90	1/4	120/533.80	50	500

Cable ties made from natural nylon 6/6 are excellent performers in most applications. Nylon 6/6 is recommended for use in temperatures ranging from -40°C to 85°C (-40°F to 185°F).

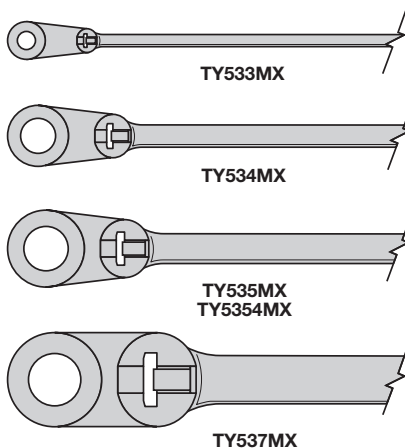


For use in 3/16 in. and 1/4 in. pre-drilled holes. Thickness panel 0.094 max. (TY554M) Range 0.04 - 0.156 (TY538M)

Std. Cat. No.	Bulk Cat. No.	Body Width (in./mm)	Length (in./mm)	Max. Wire Bundle Dia. (in./mm)	Mounting Hole	Tensile Strength (lb./N)	Std. Pkg.	Bulk Pkg.
Ty-Rap® Push Mount Cable Ties								
TY554M	TY54M	0.14/3.56	5.96/151.38	1.13/28.70	3/16	40/177.90	100	1,000
TY538M	TY38M*	0.18/4.57	7.80/198.12	1.75/44.45	1/4	50/222.40		

Cable ties made from natural nylon 6/6 are excellent performers in most applications. Nylon 6/6 is recommended for use in temperatures ranging from -40°C to 85°C (-40°F to 185°F).

* Nylon 6/6 UV weather-resistant version available (TY38MX).



The MX series cable ties are recommended for outdoor use.

Std. Cat. No.	Bulk Cat. No.	Body Width (in./mm)	Length (in./mm)	Max. Wire Bundle Dia. (in./mm)	Mounting Hole	Tensile Strength (lb./N)	Std. Pkg.	Bulk Pkg.
Ty-Rap® Nylon 6/6 Weather-Resistant								
TY533MX	TY33MX	0.09/2.29	4.00/101.60	0.63/16.00	#4	18/80.07	100	1,000
TY534MX	TY34MX	0.14/3.56	6.00/152.40	1.13/28.70	#8	40/177.90		
TY535MX	TY35MX	0.18/4.57	7.80/198.12	1.75/44.45	#10	50/222.40		
TY5354MX	TY354MX		14.60/370.84	4.00/101.60	#10			
TY537MX	TY37MX	0.30/7.62	13.90/353.06	3.50/88.90	1/4	120/533.80	50	500

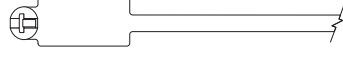
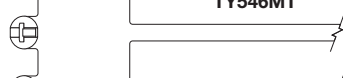
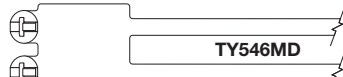
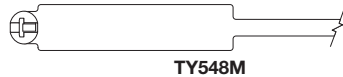
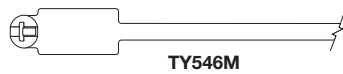
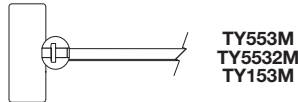
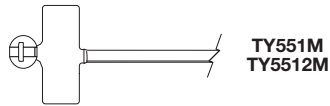
Colour - Black

For use in temperatures ranging from -40°C to 85°C (-40°F to 185°F).

Identification Cable Ties

Self-locking Ty-Rap® identification ties are available in both single and multiple configurations. Because the ties serve the dual purpose of tying and identifying, you will achieve extra economies. They can be applied with the standard Ty-Rap® tying tools used for regular ties.

Nylon 6/6 UV weather-resistant version available (add suffix “-x”).



Std. Cat. No.	Bulk Cat. No.	Body Width (in./mm)	Length (in./mm)	Max. Wire Bundle Dia. (in./mm)	Military Standard Part No.	Marking Pad Size (in.) W x H	Tensile Strength (lb./N)	Std. Pkg.	Bulk Pkg.
Ty-Rap® Identification Cable Ties									
TY551M	TY51M	0.09/2.29	3.60/91.44	0.63/16.00	MS3368-5	1 x 0.313	18/80.07	100	500
TY5512M	TY512M		8.30/210.82	2.00/50.80	—	1 x 0.313			1,000
TY553M	TY53M		4.00/101.60	0.63/16.00	—	0.813 x 0.359		50	500
TY5532M	TY532M		8.40/213.36	2.00/50.80	—	0.813 x 0.359		100	1,000
—	TY153M	0.10/2.54	4.35/110.49	0.63/16.00	—	0.781 x 1	—	—	500
TY546M	TY46M	0.18/4.57	7.10/180.34	1.75/44.45	MS3368-1	0.5 x 0.875	50/222.40	100	1,000
TY548M	TY48M	0.19/4.83	14.20/360.68	4.00/101.60	MS3368-2	0.5 x 2.125			
TY546MD	TY46MD		7.25/184.15	1.75/44.45	MS3368-3	1.172 x 1		50	
TY546MT	TY46MT		MS3368-4	1.210 x 1	100	500			
TY546MF	TY46MF		—	2.48 x 1	—	—			

Colour — Natural nylon colour

For use in temperatures ranging from -40°C to 85°C (-40°F to 185°F).

Identification Cable Ties



Snaps onto the head of a conventional cable tie to convert it to an identification tie.

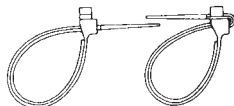
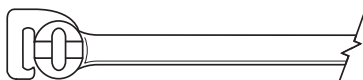
- When snapped onto the tie head, the tag is conveniently held in place until it is permanently fastened
- Offers maximized inventory control because the I.D. tag will accommodate different tie lengths and materials

Std. Cat. No.	Bulk Cat. No.	Description	Marking Pad Size (in.) W x H	Std. Pkg.	Bulk Pkg.
Snap-On Identification Marker Tag					
TC523	—	Snaps onto the heads of all miniature 18 lb. series cable ties	1 x 0.35	100	1,000
TC524	TC24	Snaps onto the heads of all intermediate 30 and 40 lb. series cable ties	1 x 0.50		
TC525	—	Snaps onto the heads of all standard 50 lb. series cable ties	1 x 0.50		

Note: Made of natural nylon 6/6.

- Allows marking and bundling to be done in one operation
- The identification tags are sold separately and can be conveniently snapped on the cable ties at the assembly location just before being installed on the bundle

Speciality Cable Ties



This Ty-Rap® brand cable tie lets you secure wire bundles up to 1-3/4 inches in diameter to all masonry surfaces. It is equipped with a masonry plug which is driven into the drilled hole. Once installed, the tail is looped through the head to provide a neat, safe, low-profile installation. It is made of black, weather-resistant nylon.



The Drive-Ty™ cable tie gives you a fast, safe means of securing cables to wood surfaces.



- One-piece design, fast and convenient to use
- Lowers your installed cost
- Clamping range of 1/16 to 2-3/8 inches reduces your inventory – one clamp replaces many
- Visually attractive – head resembles rivet
- Locking grooves maintain tight grip

Cat. No.	Body Width (in./mm)	Length (in./mm)	Bundle Dia. (in./mm)	Tensile Strength (lb./N)	Std. Pkg.
Reusable Ty-Rap® Cable Ties					
TYR505	0.18/4.57	7.50/190.50	1.75/44.45	50/222.40	100
TYR508		14.30/363.22	4.00/101.60		

Cable ties made from natural nylon 6/6 are excellent performers in most applications. Nylon 6/6 is recommended for use in temperatures ranging from -40°C to 85°C (-40°F to 185°F).

Cat. No.	Body Width (in./mm)	Max. Wire Bundle Dia. (in./mm)	Masonry Hole Size	Pullout Force	Std. Pkg.
Plug-Ty™ Cable Tie for Masonry Surfaces					
TY544MX	0.18/4.57	1.75/44.45	1/4	25	50

Cat. No.	Body Width (in./mm)	Max. Wire Bundle Dia. (in./mm)	Pullout Force	Std. Pkg.
Drive-Ty™ Cable Tie				
TY545MX	0.18/4.57	1.75/44.45	25	50

Std. Cat. No.	Bulk Cat. No.	Body Width (in./mm)	Length (in./mm)	Max. Wire Bundle Dia. (in./mm)	Hole Size	Tensile Strength (lb./N)	Std. Pkg.	Bulk Pkg.
Universal Button Head Cable Ties								
TY541M	TY41M	0.23/5.84	9.60/243.84	2.37/60.20	0.32-0.68	65	50	1,000
650-41600	–		10.25/260.35	2.50/63.50			500	
696-41848	–		12.50/317.50	3.00/76.20				

Note: Loop tie through hole in frame, around electrical, hydraulic, or air hoses to be clamped, and through head. Tighten and cut off with Ty-Rap® tool. Visually looks like a rivet.

Colour — Black
For use in temperatures ranging from -40°C to 85°C (-40°F to 185°F).

Stripped-Coloured Cable Ties

Designed primarily for P.I.C. and station cable binder marking, these self-locking ties install without tools in less than 10 seconds. Compared to an installation time of 30–60 seconds using the twisted wire method, the time saving is substantial. High-contrast colour stripes extend to end of tail for instant, permanent identification of binder.

For use in temperatures ranging from -40°C to 85°C (-40°F to 185°F).



Std. Cat. No.	Bulk Cat. No.	Tie Colour	Colour Stripe	Body Width (in./mm)	Length (in./mm)	Tensile Strength (lb./N)	Std. Pkg.	Bulk Pkg.
Striped-Coloured Ty-Rap® Cable Ties for Identification Telephone Cable Binder								
696-40527-0C	696-40527-0C	Black	–	0.09/2.29	3.62/91.95	18/80.07	Order per bag 1 bag = 50 cable ties Sold in Multiple of 20	1,000
696-40527-1-0C	696-40527-1-0	Brown	Black					
696-40527-1-2C	696-40527-1-2		Red					
696-40527-1-4C	696-40527-1-4		Yellow					
696-40527-1-7C	696-40527-1-7		Violet					
696-40527-1-9C	696-40527-1-9		White					
696-40527-2C	696-40527-2		Red					
696-40527-3-0C	696-40527-3-0	Orange	Black					
696-40527-3-2C	696-40527-3-2		Red					
696-40527-3-4C	696-40527-3-4		Yellow					
696-40527-3-7C	696-40527-3-7		Violet					
696-40527-3-9C	696-40527-3-9		White					
696-40527-4C	696-40527-4	Yellow	–					
696-40527-5-0C	696-40527-5-0	Green	Black					
696-40527-5-2C	696-40527-5-2		Red					
696-40527-5-4C	696-40527-5-4		Yellow					
696-40527-5-7C	696-40527-5-7		Violet					
696-40527-5-9C	696-40527-5-9		White					
696-40527-6-0C	696-40527-6-0	Blue	Black					
696-40527-6-2C	696-40527-6-2		Red					
696-40527-6-4C	696-40527-6-4		Yellow					
696-40527-6-7C	696-40527-6-7		Violet					
696-40527-6-9C	696-40527-6-9		White					
696-40527-8-0C	696-40527-8-0	Slate	Black					
696-40527-8-2C	696-40527-8-2		Red					
696-40527-8-4C	696-40527-8-4		Yellow					
696-40527-8-9C	696-40527-8-9		White					

Cat. No.	Description	Std. Pkg.
Striped-Coloured Ty-Rap® Cable Tie Kits		
650-40587	Pouch only	1
650-40587-1	Pouch with Ty-Rap® cable tie assortment 1 bag each of 50 each (1,250 total)	
650-40587C	Cloth pouch only	
650-40587CF	Cloth pouch with 1 bag of 50 each Ty-Rap® cable ties (1,250 total)	
650-40587M	Mini pouch only	
650-40587MF	Mini pouch filled with assortment of Ty-Rap® cable ties (50 each)	



Stripped-Coloured Cable Ties

Bi-Coloured Ty-Rap®

There is also available a plastic (Part# 650-40587) and canvas (Part# 650-40587-C) pouch designed with 25 pockets to store the bi-coloured ties. Also available is a plastic mini-pouch (Part# 650-40587-M) designed to fit into shirt pocket or over belt. Holds a maximum of 5 plastic bags of 50 each of the bi-coloured ties.

Plastic and canvas pouches also available filled with bi-coloured ties.

Cat. No. 650-40587-1 (filled plastic pouch)

Cat. No. 650-40587-CF (filled canvas pouch)

**Ty-Rap®
Mini-pouch**



Cat. No. 650-40587-M (Empty)

PLASTIC & CANVAS POUCH LOADING DIAGRAM

Blue Tie White Stripe #696-40527-6-9-C	Orange Tie White Stripe #696-40527-3-9-C	Green Tie White Stripe #696-40527-5-9-C	Brown Tie White Stripe #696-40527-1-9-C	Slate Tie White Stripe #696-40527-8-9-C
Blue Tie Red Stripe #696-40527-6-2-C	Orange Tie Red Stripe #696-40527-3-2-C	Green Tie Red Stripe #696-40527-5-2-C	Brown Tie Red Stripe #696-40527-1-2-C	Slate Tie Red Stripe #696-40527-8-2-C
Blue Tie Black Stripe #696-40527-6-0-C	Orange Tie Black Stripe #696-40527-3-0-C	Green Tie Black Stripe #696-40527-5-0-C	Brown Tie Black Stripe #696-40527-1-0-C	Slate Tie Black Stripe #696-40527-8-0-C
Blue Tie Yellow Stripe #696-40527-6-4-C	Orange Tie Yellow Stripe #696-40527-3-4-C	Green Tie Yellow Stripe #696-40527-5-4-C	Brown Tie Yellow Stripe #696-40527-1-4-C	Slate Tie Yellow Stripe #696-40527-8-4-C
Blue Tie Violet Stripe #696-40527-6-7-C	Orange Tie Violet Stripe #696-40527-3-7-C	Green Tie Violet Stripe #696-40527-5-7-C	Brown Tie Violet Stripe #696-40527-1-7-C	Red Tie Violet Stripe #696-40527-2-C



**Cat. No. 650-40587CF (Canvas Filled)
Cat. No. 650-40587-C (Canvas Empty)**

**Ty-Rap®
Ty-Pouch**



**Cat. No. 650-40587-1 (Plastic Filled)
Cat. No. 650-40587 (Plastic Empty)**

Cable Ties Dispenser

Cable Ties at your fingertips!

- Durable, lightweight polyester exterior and tough vinyl interior construction
- Rugged diamond-shaped cutout for easy access to cable ties (up to 8 in., 11 in. -14 in. lengths) and rectangular-shaped (for 4 in. length)
- Handy belt clip and chrome steel loop for easy attachment
- Resealable hook-and-loop flap for easy refill
- Includes 100 genuine Ty-Rap® cable ties

Cat. No.	Description	Pkg.
Ty-Rap® Tote™ 4 in., 8 in. and 11 in. -14 in. Combination Length Cable Tie Dispensers		
TY-TOTE-25	Ty-Rap Tote™ 8 in. Cable Tie Dispenser (includes 1 pkg. TY525M)	1
TY-TOTE-23	Ty-Rap Tote™ 4 in. Cable Tie Dispenser (includes 1 pkg. TY523M)	
TY-TOTE-28	Ty-Rap Tote™ 11 in.-14 in. Cable Tie Dispenser (includes 1 pkg. TY528M)	



Cable Ties for Special Environments

Material Selection Ordering Guide

Thomas & Betts offers Ty-Rap® cable ties and accessories in a wide variety of materials, each suited for specific environments. The purpose of this document is to assist you in choosing the best material for your particular application. The effects of weathering, flame, chemicals, extreme temperatures, and radiation on the different materials are clearly presented in the following tables to simplify this process. Once you have determined the most suitable material, you can choose from the wide variety of Ty-Rap® cable ties, identification ties, mounting bases, lashing ties, etc., offered by Thomas & Betts.

How to use Table 1:

Table 1 simplifies the material selection process by giving the relative performance ratings of the materials offered by Thomas & Betts. For example, if your application is in an extremely cold environment, four materials will answer your need: Fluoropolymer, nylon 12, Halar® (*), and stainless steel. Then, cost may be your next most important criteria, so out of those four options, nylon 12 would be the most cost effective. However, if tensile strength is important, then stainless steel would be the better choice.

Refer to tables 2 (page C35) and 3 (pages C36-C38) for more detailed information regarding physical properties of the materials and chemical resistance of the materials respectively.

It is extremely difficult to provide data on all the possible combinations or conditions that can occur. This information is based on data provided by the manufacturers of the specific materials listed and is provided only as a general guide. No specific recommendation is intended. As each application may differ, cable tie samples should be tested in the intended application by the user to determine suitability.

* Halar® is the trademark of Solvay Solexis, Inc.

TABLE 1

Available Materials **5 = Most Suitable** **1 = Least Suitable**

	Natural Nylon 6/6	Weather Resistant Nylon 6/6	Heat Stabilized Natural Nylon 6/6	Flame Retardant Nylon 6/6	Weather Resistant Nylon 12	Resistant Polypropylene	Fluoro-polymer	Weather Halar®	Stainless Steel	Weatherable Acetal
Ultraviolet Resistance	1	4	1	1	4	4	5	5	5	4
Radiation Resistance	1	1	1	1	1	1	4	4	5	1
Low Temperature	3	3	3	2	4	3	4	4	5	4
High Temperature	3	3	4	3	2	2	4	4	5	2
Flammability	3	3	3	4	1	1	4	4	5	1
Tensile Strength	3	3	3	3	2	1	3	3	5	2
Relative Cost	Low	Low	Low	Med	Med	Low	High	High	High	High
Chemical Resistance	See Table 3									

Cable Ties for Special Environments

Perfect for outdoor applications!



Colour — Black
For use in temperatures ranging from -60°C to 105°C (-76°F to 221°F)

- Ideal for Industrial OEM and MRO (includes, but not limited to industrial, lawn/garden/farming equipment, recreation vehicles, heavy equipment)
- Can be placed in environments requiring heat stabilization and UV resistance
- Provides a smooth, low-profile look and offers unlimited tensioning range for a perfect fit
- Features an oval head on every original Ty-Rap® Cable Tie
- Quicker to install and less expensive than metallic fasteners, lacing cord or tape
- Made of UV resistant, heat-stabilized nylon



Bulk Cat. No.	Type DSG	Usage	Length (in./mm)	Tensile Strength (lb./N)	Bulk Pkg.
Ty-Rap® Heat Stabilized/Ultraviolet Resistant Cable Ties					
TY23MX-A	2/21	Indoor/ Outdoor	3.62/91.95	18/80.00	1,000
TY24MX-A			5.50/139.70	30/133.00	
TY25MX-A	2S/21S		7.31/185.67	50/222.00	
TY27MX-A			13.40/340.36	120/540.00	500



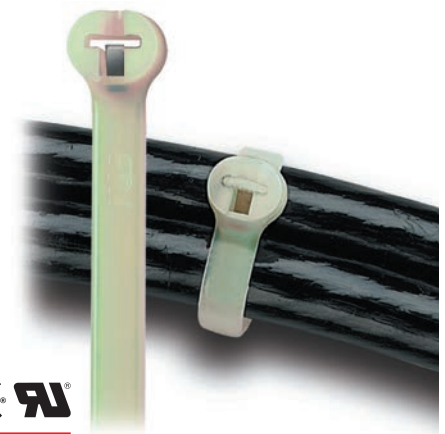
Beat the heat!

- Ideal for Industrial OEM and MRO (includes, but not limited to metal processing, paper mills, lighting and commercial construction markets with high temperature environments up to 150°C (302°F))
- Provides a smooth, low-profile look and offers unlimited tensioning range for a perfect fit
- Features an oval head on every original Ty-Rap® Cable Tie
- Quicker to install and less expensive than metallic fasteners, lacing cord or tape
- Made of extra high-temperature resistant nylon



Bulk Cat. No.	Type DSG	Usage	Length (in./mm)	Tensile Strength (lb./N)	Bulk Pkg.
Ty-Rap® Extra High-Temperature Cable Ties					
TYHT23M	1/11	Indoor Only	3.62/91.9	18/80	1,000
TYHT24M			5.5/139.7	40/178	
TYHT25M			7.31/186	50/222	
TYHT27M			13.4/340	120/534	500
TYHT28M*			14.2/361	50/222	1,000

*UR Pending



Colour — Olive
For use in temperatures ranging from -40° to 150°C (-40° to 302°F)

Cable Ties for Special Environments



Detectable using metal detection and X-ray detection systems and visions systems. Polypropylene parts are also bouyant in liquid application.

Material — Polyamide (Nylon 6/6) or Polypropylene

Colour — Blue

For use in temperatures ranging from -40°C to 85°C (-40°F to 185°F).

Typical Applications

- Food and beverage processing
- Pharmaceutical production
- Chemical and compounds manufacturing
- Tobacco processing
- Tire and airbag manufacturing
- Any other industry sensitive to contamination and using detection equipment

Cat. No.	Length (in./mm)	Body Width (in./mm)	Max. Wire Bundle Dia. (in./mm)	Tensile Strength (lb./N)	Base Material	Std. Pkg.
Ty-Rap® Detectable Cable Ties						
TY523M-NDT	3.62/91.95	0.09/2.29	0.63/16.00	18/80	Nylon	100
TY525M-NDT	7.31/186.00	0.19/4.70	1.75/44.40	50/220		50
TY527M-NDT	13.40/340.00	0.27/6.86	3.50/89.00	120/540		
TY528M-NDT	14.20/36.00	0.19/4.70	4.00/102.00	50/220	Polypropylene	100
TY523M-PDT	3.62/91.90	0.09/2.29	0.63/16.00	18/80		50
TY525M-PDT	7.31/186.00	0.19/4.70	1.75/44.40	30/135		
TY527M-PDT	13.40/340.00	0.27/6.86	3.50/89.00	60/267		
TY528M-PDT	14.20/36.00	0.19/4.70	4.00/102.00	30/135		100



Make safety a priority!

This material meets UL 94V-0 flammability rating.

Colour — White

For use in temperatures ranging from -20°C to 65°C (-4°F to 149°F).

Cat. No.	Type DSG	Usage	Length (in./mm)	Body Width (in./mm)	Max. Wire Bundle Dia. (in./mm)	Marking Pad Size (in./mm) W x H	Tensile Strength (lb./N)	Std. Pkg.
Ty-Rap® Cable Ties – Flame Retardant Nylon 6/6								
TY23MFR	2/21	Indoor/ Outdoor	3.62/91.95	0.09/2.29	0.63/16.00	N/A	18/80.07	1,000
TY232MFR			8.00/203.20	0.09/2.29	2.00/50.80		40/177.90	
TY24MFR			5.50/139.70	0.14/3.56	1.13/28.70		50/222.40	
TY25MFR	2S/21S		7.31/185.67	0.18/4.57	1.75/44.45		120/533.80	500
TY28MFR	2/21		14.20/360.68	0.18/4.57	4.00/101.60			
TY272MFR	2S/21S		8.00/203.20	0.27/6.86	2.00/50.80			
TY27MFR		13.20/335.28	0.27/6.86	3.50/88.90				
TY53MFR	N/A	N/A	4.00/101.60	0.09/2.29	0.63/16.00	0.81 x 0.36/20.57 x 9.1	18/80.07	
TY153MFR			4.35/110.49	0.10/2.54	0.63/16.00	0.78 x 1/19.81 x 14.00		



This material provides very good resistance to ultraviolet light and chemical exposure. Nylon 12 is a lower, moisture-absorbing material than nylon 6/6 and the effect of water on properties is much less.

Colour — Black

For use in temperatures ranging from -40°C to 85°C (-40°F to 185°F).

Std. Cat. No.	Bulk Cat. No.	Length (in./mm)	Body Width (in./mm)	Max. Wire Bundle Dia. (in./mm)	Tensile Strength (lb./N)	Std. Pkg.	Bulk Pkg.
Ty-Rap® Nylon 12 Cable Ties – Ultraviolet and weather-resistant!							
TYC525MX	TYC25MX	7.31/185.67	0.18/4.57	1.75/44.45	35/155.70	100	1,000
–	TYC28MX	14.20/360.68		4.00/101.60			
–	TYC272MX	8.00/203.20	0.27/6.86	2.00/50.80	85/378.10	–	500
TYC527MX	TYC27MX	13.20/335.28		3.50/88.90			
–	TYC29MX	30.00/762.00	0.30/7.62	9.00/228.60		–	

Cable Ties for Special Environments



Engineered to withstand high temperatures!

Material meets ASTM D4066 PA121.

Colour — Green Tint

For use in temperatures ranging from -60°C to 105°C (-76°F to 221°F).

Cat. No.	Type DSG	Plenum Rating	Usage	Length (in./mm)	Body Width (in./mm)	Max. Wire Bundle Dia. (in./mm)	Tensile Strength (lb./N)	Std. Pkg.
Ty-Rap® Heat Stabilized Ties								
TYH23M	2/21	AH-2	Indoor Only	3.62/91.95	0.09/2.29	0.63/16.00	18/80.07	1,000
TYH232M				8.00/203.20		2.00/50.80	40/177.90	
TYH24M				5.50/139.70	0.14/3.56	1.13/28.70	30/135	
TYH242M				8.19/208.03		2.00/50.80		
TYH26M				11.10/281.94		3.00/76.20		
TYH25M	2S/21S	AH-2	Indoor Only	7.31/185.67	0.18/4.57	1.75/44.45	50/222.40	500
TYH253M				11.40/289.56		3.00/76.20	4.00/101.60	
TYH28M				14.20/360.68	0.27/6.86	3.50/88.90	120/533.80	
TYH27M				13.20/335.28		2.00/50.80		
TYH272M				8.75/222.25		2.00/50.80		
TYH29M	30.00/762.00	0.30/7.62	9.00/228.60					



Many factors combine to determine the useful life of a cable tie, but none is as important as chemical exposure. Polypropylene cable ties are ideally suited for chemical environments.

Colour — Black

For use in temperatures ranging from -40°C to 85°C (-40°F to 185°F).



Cat. No.	Body Width (in./mm)	Length (in./mm)	Max. Wire Bundle Dia. (in./mm)	Tensile Strength (lb./N)	Std. Pkg.
Ty-Rap® Weather-Resistant Polypropylene Ties					
TYP23MX	0.09/2.29	3.62/91.95	0.63/16.00	18/80.07	1,000
TYP25MX	0.18/4.57	7.01/178.05	1.75/44.45	30/133.40	
TYP28MX		13.92/353.57	4.00/101.60	60/266.90	
TYP27MX	0.27/6.86	13.17/334.52	3.5088.90		500



Colour — Maroon

For use in temperatures ranging from -45°C to 140°C (-49°F to 284°F).



Ty-Rap® cable ties, made of Halar®, are designed for use in air-handling spaces. Due to its UL 94V-0 flammability rating and low-smoke density characteristics, Halar® material is most suitable in applications where flame resistance and smoke generation is a concern.

Std. Cat. No.	Bulk Cat. No.	Type DSG	Usage	Body Width (in./mm)	Length (in./mm)	Max. Wire Bundle Dia. (in./mm)	Tensile Strength (lb./N)	Std. Pkg.	Bulk Pkg.
Halar®* Cable Ties									
TYV523M	TYV23M	2/21	Indoor Only	0.09/2.29	3.62/91.95	0.63/16.00	18/80.07	100	1,000
TYV525M	TYV25M			0.18/4.57	7.31/185.67	1.75/44.45	50/222.40		

* Solvay Solexis, Inc. registered trademark.

CSA Certified Natural 6/6 Nylon Cable Ties are suitable for use in air handling plenum spaces in accordance with rules 12-010 (3), (4) and (5), and 12-020 of the CEC.



Fluoropolymer cable ties offer high-radiation resistance and temperature stability from -60°C to 170°C (-76°F to 338°F). Also, fluoropolymer provides excellent resistance to ultraviolet light and meets UL flammability rating 94V-0.

Colour — Aqua

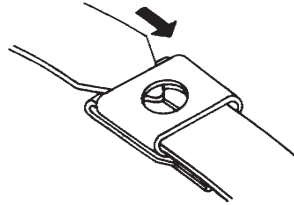


Std. Cat. No.	Bulk Cat. No.	Type DSG	Usage	Body Width (in./mm)	Length (in./mm)	Max. Wire Bundle Dia. (in./mm)	Tensile Strength (lb./N)	Std. Pkg.	Bulk Pkg.
Ty-Rap® Nylon 12 Cable Ties – Ultraviolet and weather-resistant!									
TYZ523M	TYZ23M	2/21	Indoor Only	0.09/2.29	3.62/91.95	0.625	18/80.07	100	1,000
TYZ525M	TYZ25M			0.18/4.57	7.31/185.67	1.750	50/222.40		
TYZ528M	TYZ28M			0.18/4.57	14.19/360.43	4.000	50/222.40	50	100
TYZ527M	TYZ27M			0.27/6.86	13.38/339.85	3.500	120/533.80		

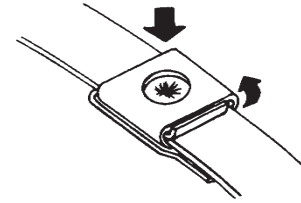
CSA Certified Natural 6/6 Nylon Cable Ties are suitable for use in air handling plenum spaces in accordance with rules 12-010 (3), (4) and (5), and 12-020 of the CEC.



Stainless Steel Cable Ties and Accessories



After wrapping the object to be tied, insert the free end of the tie through the buckle and into the tool.



Squeeze the handle of the tool to create the dual lock and cut off the tail. The cable tie forms a low-profile dual lock.



- The tail is formed into a fold lock behind the buckle
- The tool forces a dimple in the band into a hole in the buckle

Dual Lock

Thomas & Betts has a complete package of stainless steel cable ties and accessories that are easy to apply and superior in quality. These products have been designed for tying, lashing and identification applications in demanding environments such as boiler rooms, chemical plants, refineries, pulp/paper mills, shipyards and offshore oil platforms. They are made of a variety of high-quality stainless steel materials which offer excellent corrosion resistance, high temperature and durability characteristics. There is also a variety of high-quality installation and identification tools to complete your cable tie accessory needs.

For cable bundling, I.D. tags and other general bundling applications – especially in hazardous environments – Thomas & Betts Stainless Steel Cable Ties provide a strong, safe, permanent installation with a unique, dual lock.

The Type 304 stainless steel ties are completely fireproof – no toxic fumes, no sagging cables. They are extremely resistant to corrosion and UV light, with the ability to withstand the harshest temperature extremes. Yet they are surprisingly economical.

The low-profile ties are fast and easy to apply. A quick squeeze of the installation tool forms two strong locks – a dimple lock and a fold lock.

Their two-piece configuration adds to its versatility. Available in standard lengths to wrap bundle diameters from 1 to 10 inches, Thomas & Betts Stainless Steel Cable Ties can be supplied in other lengths on special order.

Low-profile Thomas & Betts Stainless Steel Ties are fireproof and resist corrosion, UV light and extreme weather conditions for safe, permanent cable bundling.

Installation Hand Tool

The installation hand tool is a lightweight, pocket size hand tool which quickly and easily applies the stainless steel cable ties.

To use, simply separate the pull-up handle from the body, push the release lever down and insert the clamp tail as far as possible. Squeeze the pull-up handle until the band is tight. Finally, move the pull-up handle to the locking/cut-off position by moving it away from the body as far as it will go. Then squeeze to form the dual lock and cut off the excess tail.

Catalogue Number System

CABLE TIE TYPE
SS = Two-piece solid stainless steel cable tie, Type 304
TYS = Multi-lock stainless steel cable tie, Type 316
SSR = Reusable stainless steel cable tie, Type 200/300
SSH = Heavy-duty stainless steel clamp, Type 201
TS = Roller bar locking stainless steel cable tie, Type 302/304
LS = Ball locking stainless steel cable tie, Type 302/304/316

	Bundle Diameter	Tensile Strength	Width	Length	Weight
Cat. No.	For Bundle Dia. of (in./mm)	Tensile Strength (lb./N)	Width (in./mm)	Length (in./mm)	Weight (lb./kg)
SS10-250	2/51	200/890	0.25/6.35	10.0/254	1.1/4.89
SS17-250	4/101	200/890	0.25/6.35	16.5/419	1.8/8.00

Stainless Steel Cable Ties and Accessories

SS – Two-Piece Solid

Strong, slip-free ties with a unique dual lock

- Low-profile, single wrap ties
- No slipping
- Dual locking mechanism



Cat. No.	For Bundle Dia. of (in./mm)	Tensile Strength (lb./N)	Width (in./mm)	Length (in./mm)	Weight (lb./kg)	Std. Pkg.
Mini Stainless Steel Cable Ties						
SS7-180	1/25	100/444.8	0.18/4.5	6.5/165	0.70/0.32	100
SS10-180	2/51			10.0/254	0.90/0.41	
SS16-180	4/102			16.0/406	1.40/0.64	
SS23-180	6/152			22.5/572	1.85/0.84	
SS29-180	8/203			29.0/737	2.35/1.07	
Standard Stainless Steel Cable Ties						
SS10-250	2/51	250/1,112	0.25/6.35	10.0/254	1.10/0.50	100
SS17-250	4/102			16.5/419	1.80/0.82	
SS23-250	6/152			22.5/572	2.50/1.13	
SS29-250	8/203			29.0/737	3.20/1.45	
SS35-250	10/254			35.0/889	3.80/1.72	

304 Stainless Steel
0.015 in. (0.38mm) Thickness
NOTE: Other lengths available on special request.
Add suffix -316 for 316 Stainless Steel.

Mini Tie Installation Tool

Perfect for mini-sized stainless steel ties

- Pocket-sized, light weight
- Applies mini-size stainless steel ties



Cat. No.	Description	Weight (lb./kg)	Std. Pkg.
WTA290	Hand tool to apply mini stainless steel cable ties; easy-to-use tool applies tension, locks tie with the dual lock, and cuts off band flush with top surface of buckle	1.17/0.53	1

Standard Tie Installation Tool

Pocket-sized hand tool for quick and easy cable tie installations

- Lightweight
- Applies standard-size stainless steel ties



Cat. No.	Description	Weight (lb./kg)	Std. Pkg.
WTA250	Hand tool to apply standard stainless steel cable ties; easy-to-use tool applies tension, locks tie with the dual lock, and cuts off band flush with top surface of buckle	1.17/0.53	1

Stainless Steel Cable Ties and Accessories

TYS – Multi-Lok™ Self-Locking



Strong — holds in excess of 200 lb. — and self locking

- Corrosion-resistant, providing a safe, strong, worry-free hold
- Unique, self-locking, multiple-locking system holds in excess of 200 lb.
- Manufactured from Type 316 stainless steel
- Available in two widths and various lengths

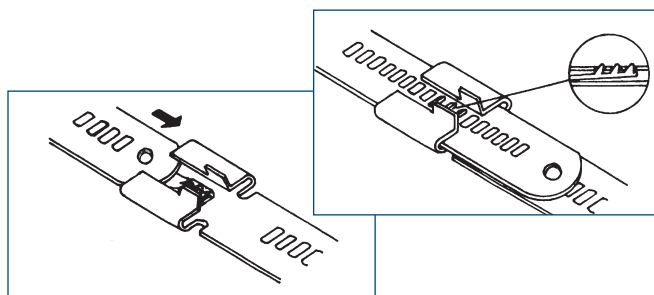
Cat. No.	Tensile Strength (lb./N)	Width (in./mm)	Length (in./mm)	Weight (lb./kg)	Std. Pkg.
Type 316 Stainless Steel – Uncoated					
TYS6-280	250/1,112	0.28/7.00	6/150	0.66/0.30	100
TYS9-280			9/225	0.99/0.45	
TYS12-280			12/300	1.32/0.60	
TYS18-280			18/450	1.76/0.80	
TYS24-280			24/610	2.64/1.20	
TYS6-470		0.47/12.00	6/150	1.10/0.50	
TYS9-470			9/225	1.65/0.75	
TYS12-470			12/300	2.20/1.00	
TYS18-470			18/450	2.97/1.35	
TYS24-470			24/610	4.29/1.95	

0.010 in. (0.245mm) Thickness

How it works:

As the free end of the Multi-Lok™ tie passes through the buckle, three separate teeth (four teeth in the 12 mm Multi-Lok™) mesh with corresponding slots in the band, automatically locking the tie as it is being tensioned.

- Nylon 11 weather-resistant coating is unaffected by UV sunlight, resistant to corrosion, chemicals, weathering and protects cable insulation
- Coated with halogen-free, non-toxic black nylon 11



Cat. No.	Tensile Strength (lb./N)	Width (in./mm)	Length (in./mm)	Weight (lb./kg)	Std. Pkg.
Type 316 Stainless Steel – Nylon 11 Coated					
TYS6-280C	250/1,112	0.28/7.00	6/150	0.66/0.30	100
TYS9-280C			9/225	0.99/0.45	
TYS12-280C			12/300	1.32/0.60	
TYS18-280C			18/450	1.76/0.80	
TYS24-280C			24/610	2.64/1.20	
TYS6-470C		0.47/12.00	6/150	1.10/0.50	
TYS9-470C			9/225	1.65/0.75	
TYS12-470C			12/300	2.20/1.00	
TYS18-470C			18/450	2.97/1.35	
TYS24-470C			24/610	4.29/1.95	

0.010 in. (0.245mm) Thickness

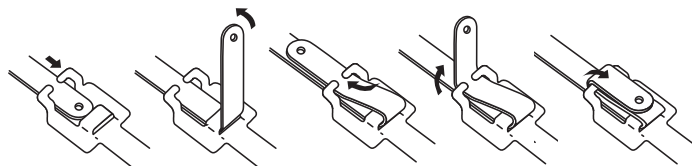
Stainless Steel Cable Ties and Accessories

SSR – Reusable

Ties to use and reuse with quickness and ease!

- Made of high-strength, corrosion-resistant 200/300 Series stainless steel
- Coated with a non-toxic, halogen-free, low-smoke Nylon 11, protecting cables from damage or interference due to direct contact with the stainless steel
- Nylon 11 is also chemical and weather-resistant, UV-protective, extremely flexible at low temperature, user-friendly on installer's hands and easy on bundles
- Unique buckle design for quick, easy application and re-use

1. Insert cable tie tail through holding tabs and locking emboss.
2. Bend cable tie tail up.
3. Insert cable tie tail back through holding tabs, creating as tight a bend as possible. For increased tensile strength follow steps #4 and #5.
4. Bend cable tie tail up.
5. Fold cable tie tail over holding tabs.



Cat. No.	Tensile Strength (lb./N)	Width (in./mm)	Length (in./mm)	Weight (lb./kg)	Std. Pkg.
Reusable Stainless Steel Cable Ties – Coated					
SSR6-250C	75/333.60	0.25/6.35	6/152	1.4/0.64	100
SSR9-250C			9/229	1.8/0.82	
SSR12-250C			12/305	2.1/0.95	
SSR18-250C			18/457	3.0/1.36	
SSR24-250C			24/610	3.7/1.68	
SSR6-375C	100/444.80	0.38/9.53	6/152	1.8/0.82	
SSR9-375C			9/229	2.0/0.91	
SSR12-375C			12/305	3.1/1.41	
SSR18-375C			18/457	4.4/2.00	
SSR24-375C			24/610	6.6/2.99	
SSR30-375C			30/762	7.0/3.18	
SSR36-375C			36/914	8.3/3.76	



WTAE200
Cable Tie Tensioner



WTAE201
Tensioning Hook



DAS250
Pistol Grip Tensioning Tool

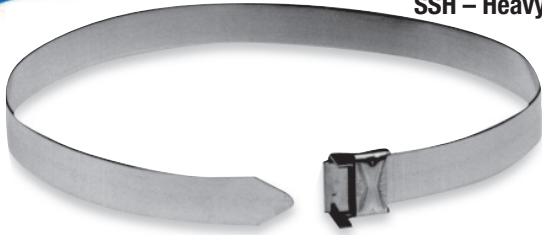
(WTAE tools for use with type TYS – TYS C Series Cable ties)



Cat. No.	Description	Weight (lb./kg)	Std. Pkg.
Tensioning Tools			
WTAE200	Cable Tie Tensioner: For tensioning Reusable Ties and Multi-Lok™ Ties	0.6/0.27	1
WTAE201	Tensioning Hook: For tensioning Reusable Ties and Multi-Lok™ Ties	0.1/0.05	
DAS250	Pistol Grip Tensioning Tool: For installing Multi-Lok™, Ball Lock, & Roller Bar Lock SS Ties	1.0/0.45	

Stainless Steel Cable Ties and Accessories

SSH – Heavy-Duty Clamp



Pre-assembled for single or double wrapping!

- Double-wrapped clamps provide extra strength
- Available in various lengths, widths, and thicknesses



Cat. No.	Max. Dia. Once Around (in./mm)	Max. Dia. Twice Around (in./mm)	Total Length (in./mm)	Tensile Strength Single Wrap (lb./N)	Band Width (in./mm)	Band Thickness (in./mm)	Weight (lb./kg)	Std. Pkg.
Heavy-Duty Free-End Stainless Steel Clamps — Type 201								
SSH10-250	2/50	–	10/25	450/2002	0.25/6.35	0.02/0.51	2.2/1.00	100
SSH16-250	3.5/88	1.5/38	16/40				3.1/1.41	
SSH18-500	4/101	2/50	18/45	1,400/6228	0.5/12.70	0.03/0.76	10.5/4.76	
SSH21-625	5/127	2.5/63	21/53	1,700/7562	0.63/15.88	0.03/0.76	15.1/6.85	
SSH31-500	8/203	4/101	31/78	1,400/6228	0.5/12.70	0.03/0.76	4.7/2.13	25
SSH34-250	9/228	4.5/114	34/86	450/2002	0.25/6.35	0.02/0.51	5.6/2.54	100
SSH37-750	10/254	5/127	37/93	2,000/8896	0.75/19.05	0.03/0.76	7.6/3.45	25
SSH44-375	12/304	6/152	44/112	900/4003	0.38/9.53		3.6/1.69	
SSH50-750	14/355	7/177	50/127	2,000/8896	0.75/19.05		9.7/4.40	
SSH56-625	16/406	8/203	56/142	1,700/7562	0.63/15.88		9.0/4.08	
SSH62-750	18/457	9/228	62/157	2,000/8896	0.75/19.05		11.6/5.26	
SSH69-625	20/508	10/254	69/175	1,700/7562	0.63/15.88		10.7/4.86	

Type 201 Stainless Steel

Other Free-End Clamp sizes and metals are available on special order.

Apply tension, cut and secure with confidence!



WTJ020

Lightweight pocket-sized tool to install 1/4 in. and 3/8 in. wide Free-End Clamps. This tool also applies tension and has a built-in cutter.



WTC075

Designed to install 1/4 in. to 5/8 in. wide Free-End Clamps. The lightweight, ratchet-action tool tension cuts and secures the buckle tab.



WTC001

A drop-forged tool with tensioning capability to do all 1/4 in. to 3/4 in. Free-End Clamp sizes.

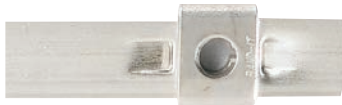
Cat. No.	Description	Weight (lb./kg)	Std. Pkg.
Installation Tools			
WTJ020	Compact Free End Stainless Steel Cable Tie Installation Tool for 1/4 in. to 3/8 in. sizes	1.1/0.50	1
WTC075	Pistol Grip Free End Stainless Steel Cable Tie Installation Tool for 1/4 in. to 5/8 in. sizes	2.6/1.18	
WTC001	Free End Stainless Steel Cable Tie Installation Tool for all sizes	4.4/2.00	

Stainless Steel Cable Ties and Accessories

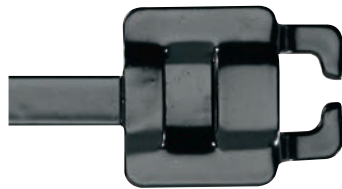
Specifications



Mini Stainless Steel Cable Ties



Standard Stainless Steel Cable Ties



Reusable Stainless Steel Cable Ties



Multi-Lok™ Ties — Uncoated



Multi-Lok™ Ties — Coated



Free-End Clamps

Cat. No.		Width (in./mm)	Length (in./mm)	Thickness (in./mm)	Max. Dia. Single Wrap (in./mm)	Max. Dia. Double Wrap (in./mm)				
Specifications for Stainless Steel Ties										
SS7-180	–	0.18/4.50	6.5/165	0.02/0.51	1.7/43	(single wrap only)				
SS10-180	–		10/254		2.8/71					
SS16-180	–		16/406		4.7/119					
SS23-180	–		22.5/572		6/152	–				
SS29-180	–		29.0/737		8/203	–				
SS10-250	–	0.25/6.35	10/254		0.02/0.51	2.1/153	(single wrap only)			
SS17-250	–		16.5/419			4.3/109				
SS23-250	–		22.5/572			6.5/165				
SS29-250	–		29/737			8.5/215				
SS35-250	–		35/889			10.5/265				
SSR6-250C	–	0.25/6.35	6/152			0.02/0.51	1.5/38	N/A		
SSR9-250C	–		9/229				2.5/63	1.1/28		
SSR12-250C	–		12/305				3.4/86	1.5/38		
SSR18-250C	–		18/457				5.4/137	2.5/64		
SSR24-250C	–		24/610				7.3/185	3.5/89		
SSR6-375C	–	0.38/9.53	6/152	0.02/0.51			1.5/38	N/A		
SSR9-375C	–		9/229				2.5/63	1.1/28		
SSR12-375C	–		12/305				3.4/86	1.5/38		
SSR18-375C	–		18/457				5.4/137	2.5/64		
SSR24-375C	–		24/610				7.3/185	3.5/89		
SSR30-375C	–	–	30/762		9.1/231		4.4/112	–		
SSR36-375C	–	–	36/914		11.0/280		5.3/135	–		
Uncoated Nylon 11 Coated										
TY56-280	TY56-280C	0.28/7.00	6/152		0.01/0.25		1.9/48	(single wrap only)		
TY59-280	TY59-280C		9/229				2.8/71			
TY12-280	TY12-280C		12/305			3.8/96				
TY18-280	TY18-280C		18/457			5.7/144				
TY24-280	TY24-280C		24/610			7.6/193				
TY56-470	TY56-470C	0.47/12.00	6/152			0.01/0.25	1.9/48	(single wrap only)		
TY59-470	TY59-470C		9/229				2.8/71			
TY12-470	TY12-470C		12/305	3.8/96						
TY18-470	TY18-470C		18/457	5.7/144						
TY24-470	TY24-470C		24/610	7.6/193						
SSH10-250	–	0.25/6.35	10/250	0.02/0.51			2.0/50	N/A		
SSH16-250	–		16/400				3.5/88	1.5/38		
SSH19-250	–		19/480				5.0/127	2.5/64		
SSH27-250	–		27/680				7.0/177	3.5/89		
SSH34-250	–		34/860				9.0/228	4.5/114		
SSH16-375	–	0.38/9.53	16/400		0.02/0.51		3.5/88	1.5/38		
SSH44-375	–		44/1,120				12.0/304	6.0/152		
SSH18-500	–	0.5/12.70	18/460				0.03/0.76	4.0/101	2.0/5.0	
SSH31-500	–		31/780					8.0/203	4.0/101	
SSH21-625	–	0.63/15.88	21/530					0.03/0.76	5.0/127	2.5/64
SSH56-625	–		56/1,420			16.0/406			8.0/203	
SSH69-625	–		69/1,750			20.0/508			10.0/254	
SSH24-750	–	0.75/19.05	24/600			0.03/0.76			6.0/152	3.0/76
SSH37-750	–		37/940						10.0/254	5.0/127
SSH50-750	–		50/1,270						14.0/355	7.0/177
SSH62-750	–		62/1,570	18.0/457					9.0/228	

Specifications (cont'd)



Cat. No.		Stainless Steel Type	Coating or Finish	Min. Loop Tensile Strength Single Wrap (lb./N)	Min. Loop Tensile Strength Double Wrap (lb./N)	Application Tools Used	Max. Dia. Single Wrap (in./mm)
Specifications for Stainless Steel Ties (cont'd)							
SS7-180		304	Dull to Bright	100/445	(single wrap only)	WTA290	<ul style="list-style-type: none"> • Wire/cable bundling • I.D. tagging
SS10-180							
SS16-180							
SS23-180							
SS29-180							
SS10-250							
SS17-250		200/300	Nylon 11 Coated (Uncoated or other colours available on special order)	200/890		WTA250	
SS23-250							
SS29-250							
SS35-250							
SSR6-250C							
SSR9-250C							
SSR12-250C		200/300	Nylon 11 Coated (Uncoated or other colours available on special order)	75/334	300/1,334	WTAE200	<ul style="list-style-type: none"> • Reusable • Cable bundling • Oil rigs • Telecommunications towers • Hazardous and corrosive environments • Cable trays
SSR18-250C							
SSR24-250C							
SSR6-375C							
SSR9-375C							
SSR12-375C							
SSR18-375C		200/300	Nylon 11 Coated (Uncoated or other colours available on special order)	100/445	500/2,224	WTAE201	
SSR24-375C							
SSR30-375C							
SSR36-375C							
Uncoated Nylon 11 Coated (cont'd)							
TYS6-280	TYS6-280C	316	Uncoated or Nylon 11 Coated Black	250/1,112	(single wrap only)	WTAE200	<ul style="list-style-type: none"> • Self-locking • Cable bundling • Hazardous and corrosive environments
TYS9-280	TYS9-280C						
TYS12-280	TYS12-280C						
TYS18-280	TYS18-280C						
TYS24-280	TYS24-280C						
TYS6-470	TYS6-470C						
TYS9-470	TYS9-470C						
TYS12-470	TYS12-470C						
TYS18-470	TYS18-470C						
TYS24-470	TYS24-470C						
SSH10-250		201	Bright	450/2,002	1,200/5,338	WTJ020 WTC075 WTC001	<ul style="list-style-type: none"> • Industrial hoses • Cable bundling • High strength
SSH16-250							
SSH19-250							
SSH27-250							
SSH34-250							
SSH16-375							
SSH44-375							
SSH18-500							
SSH31-500							
SSH21-625							
SSH56-625							
SSH69-625							
SSH24-750							
SSH37-750							
SSH50-750							
SSH62-750							
				2,000/8,896	5,000/22,240	WTC001	

Ty-Rap® Stainless Steel Cable Ties have passed a variety of mechanical, environmental, and electrical tests. Other data can be made available upon request. S.S. Series also available in (316) Stainless.

Stainless Steel Cable Ties and Accessories

Tools and Accessories

Boiler rooms, shipyards, or off-shore oil platforms — a match for any severe environment!

- Stainless steel strap cable ties have been designed for high-temperature applications and for use in areas of harsh, corrosive environments
- Rated at 200-lb. tensile strength
- Smooth edges protect both the cable insulation and the installer



Cat. No.	Body Width (in.)	Length (in.)	Max. Wire Bundle Dia. (in.)	Tensile Strength (lb.)	Std. Pkg.
Ty-Rap® Stainless Steel Strap Cable Ties					
TYS8	0.310	10.65	2	200	100
TYS14	0.310	14.65	4	200	50
TYS22	0.310	22.65	6	200	50
TYS28	0.310	28.65	8	200	50

Note: Use WT3S Tool for tensioning
 Cannot be coated with any covering material
 Made of 316 stainless steel

1,000-ft. reel to cut your desired length!



Cat. No.	Description	Width (in./mm)	Tensile Strength (lb./N)	Std. Pkg.
Ty-Rap® Stainless Steel Strapping on a Reel				
TYS1000	1,000-ft. of strap, 2 reels of 500 ft. each	0.31/7.87	200/889.60	1

Stainless steel ties of virtually any length can be produced from the 1,000-ft. reel in combination with the matching head.

Note: Use WT3S tool for tensioning and cutoff

A perfect mate with cable ties for tensioning



WT3S



DAS250

Cat. No.	Description	Std. Pkg.
Ty-Rap® Stainless Steel Cable Tie Installation Tools		
WT3S	Installs strapping ties	1
DAS250	Installs Multi-Lok™, ball lock, and roller bar lock stainless steel ties	

Lockable heads for stainless steel strapping



Cat. No.	Description	Std. Pkg.
Ty-Rap® Stainless Steel Strapping Locking Heads		
TYS5200H	Heads only for stainless strapping	50

Long-lasting anchor hold



Cat. No.	Description	Std. Pkg.
Ty-Rap® Stainless Steel Mounting Base		
TCS25	Mounting bases for stainless steel ties	50

Stainless Steel Cable Ties and Accessories

Identify cable bundles with permanent, stainless steel imprintable tags

- Apply Type 304 stainless steel tags with stainless steel cable ties
- Easy-to-use — slip a tie through the slots in the tag and fasten with the installaton tool
- Works with 1/4 in. wide ties
- 0.015 in. Thickness



Cat. No.	Width (in./mm)	Length (in./mm)	Weight (lb./N)	Std. Pkg.
I.D. Tagging System				
SSID100	0.75/19.05	2.0/50.80	0.5/2.22	100
SSID101	1.50/38.10	2.5/63.50	1.2/5.34	
SSID102	0.75/19.05	3.5/88.90	0.8/3.56	

Packaging Quantity: 100/box

Note: Customized pre-embossed tags are available. Please consult Regional Sales Office for details. Add suffix (316) for 316 Stainless Steel.

No second guessing — quickly and accurately position I.D. tags!

- Imprint Thomas & Betts stainless steel I.D. tags
- Includes special tag holder for secure positioning and a 3/32 in. character imprinting wheel, standard (no substitutions allowed)



Cat. No.	Description	Weight (lb./N)
I.D. Tagging System		
WTID200	I.D. Tag Imprinter	29.5/131.2
WTID290	3/32 in. Character Imprinting Wheel	-
WTID281	1/8 in. Character Imprinting Wheel	
WTID283	3/16 in. Character Imprinting Wheel	
WTID204	(Kit) WTID200 and WTID283	

Packaging Quantity: 1/box

S.S. Tape Embossing System



Cat. No.	Description	Weight	
		lb.	kg
S.S. Tape Embossing System			
WTID400	Hand-held tool for embossing S.S. I.D. Tap	2.57	1.17
WTID405	Replacement S.S. tape (21' long, 1/2" wide)	0.18	0.01

Stainless Steel Cable Ties and Accessories

LS - Heavy-Duty Ball-Lock Mechanism

Engineered to withstand the harshest environments!



YLS-7.9-200BC



LS-4.6-200A

These one-piece, self-locking stainless steel cable ties offer quick and easy installation — no crimping or folding required — and a strong, reliable lock. Choose among a variety of sizes and materials to meet all of your wire and cable bundling needs, even in the most extreme environments.

Safer, Stronger, Faster

- Self-locking — no time-consuming crimping or folding required
- Stainless steel ball in low-profile, wedge-shaped head locks tie securely in place
- Angled tail enables fast, easy insertion
- Rounded edges and smooth surfaces protect installer's hands
- Engineered with an average ultimate failure point of up to twice the listed strength

Wide range of sizes

- Six standard lengths cover most applications with custom lengths available

Three materials suit a variety of environments

- 302/304 grade stainless steel for standard applications
- 316 grade (marine-grade) stainless steel for extra corrosion resistance
- 316 grade (marine-grade) stainless steel, fully coated with low-smoke, halogen-free polyester to withstand continuous exposure to salt spray, sunlight, petroleum and chemicals

Typical Applications

- Offshore drilling
- Petrochemical processing
- Shipbuilding
- Food and beverage processing
- Pharmaceutical processing

Specifications

- Operating Temp. Range:
Uncoated: -60°C to 300°C (-76°F to 572°F)
Coated: -60°C to 150°C (-76°F to 302°F)
- Approvals/Standards: CSA, UL, CE, Lloyd's Register, Germanischer Lloyd, American Bureau of Shipbuilding, Det Norske Veritas, RoHS compliant
- Uncoated: CSA approved

Application Tool

DAS-250 Hand Tool (adjustable tension, automatic cut off), CT6 and CT3



Ordering Information



Cat. No. Uncoated 302/304 Grade Stainless Steel	Cat. No. Uncoated 316 Grade Stainless Steel	Cat. No. Fully Polyester Coated 316 Grade Stainless Steel	Length (in./mm)	Width (in./mm)	Max. Bundle Dia. (in./mm)	Tensile Strength (lb./N)	Std. Pkg.	Recommended Tooling
LS-4.6-200A	LS-4.6-200B	YLS-4.6-200BC	7.9/201	0.18/4.6	2.0/51	200/444.8	50	DAS-250, CT6, CT3
LS-4.6-360A	LS-4.6-360B	YLS-4.6-360BC	14.2/360		4.0/102			
LS-4.6-520A	LS-4.6-520B	YLS-4.6-520BC	20.5/520		6.0/152			
LS-4.6-680A	LS-4.6-680B	YLS-4.6-680BC	26.7/679		8.0/203			
LS-4.6-840A	LS-4.6-840B	—	33.0/838		10.0/254			
LS-7.9-200A	LS-7.9-200B	YLS-7.9-200BC	7.9/201	0.31/7.9	2.0/51	450/1112.0		
LS-7.9-360A	LS-7.9-360B	YLS-7.9-360BC	14.2/360		4.0/102			
LS-7.9-520A	LS-7.9-520B	YLS-7.9-520BC	20.5/520		6.0/152			
LS-7.9-680A	LS-7.9-680B	YLS-7.9-680BC	26.7/679		8.0/203			
LS-7.9-840A	LS-7.9-840B	—	33.0/838		10.0/254			
LS-7.9-1010A	LS-7.9-1010B	—	41.3/1050		12.5/318			

DELTEC™ Cable Support System

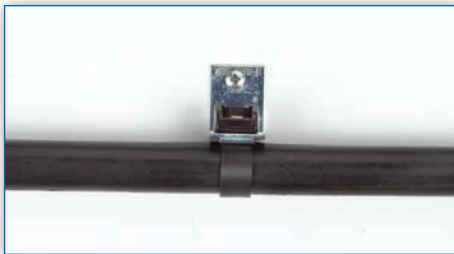
Lashing Straps and Accessories

Strong, long-life and cost-saving method of securing communication cables

The Deltec™ Cable Support System is a user-friendly product designed to provide ease and flexibility in fastening communications cables to messenger strand. It is equally well suited for copper conductor cable, coaxial cable, fiber optic cable and innerduct in aerial applications.

The Deltec™ system answers your aerial cable needs with innovative design and state-of-the-art materials. This system includes weather-resistant acetal cable straps, marine grade locking devices, and base hanger accessories for specific applications where mounting is required.

Pre-assembled Deltec™ cable straps are available in standard lengths of 10 in. (254 mm), 13.5 in. (342.9 mm), and 27 in. (685.8 mm). Convenient 50 ft. (15.24 m) to 3500 ft. (1066.8 m) reels where specific lengths need to be established by the installer in the field are available. Additional “standard” lengths can be established for applications where higher volumes prevail.



Advantages of the Deltec™ System Include:

- Proven years of service
- No sharp edges — craft friendly Cable friendly!
- Ease of installation — one wrap, no re-treading or re-strap
- Lowers installation costs
- High tensile strength after fastening
- Total flexibility in lengths when using reel
- Stackable spacers accommodate all cable sizes — no need to stock multiple sizes of individual height spacers
- Spacer designed to retain strap on each side and cradle the cable, providing restricted movement of spacer and preventing damage to cable
- In situations where multiple cables are supported, the T&B® TCP360 stackable spacer may be rotated 90° and installed similarly to a single cable, yet provide the same restricting features (unlike those commonly used today)
- Month and year of manufacture stamped into strap material
- Squirrels and vermin won't eat it!

DELTEC™ Cable Support System

Lashing Straps and Accessories

Specifications

- Strap and Body: Weatherable acetal; offers superior resistance to sunlight, moisture, and salt environments
- Locking Device: Marine-grade corrosion-resistant silicon copper alloy
- Deltec System Temperature Range: -34°C to 66°C (-30°F to 150°F)
- Minimum Tensile Strength: 250 lb. minimum (1,211 N)
- Outdoor Life: Designed to last a minimum of 20 years
- Continuous Load: 20 lb. (9.07 kg)
- Continuous Use Temperature: -65°C to 90°C (-85°F to 194°F)
- Colour: Black



Extra security!

The recommended maximum continuous static loading for the Deltec™ straps is 20 lb. per strap. For best results, suggested spacing is 15 in. It's the responsibility of the user to determine whether or not their application meets our recommendation.

Note: Use WT3D Tool for tensioning and cutoff.

Cat. No.	Body Width (in./mm)	Max. Wire Length (in./mm)	Bundle Dia. (in./mm)	Tensile Strength (lb./N)	Std. Pkg.
Stainless Steel Strap Cable Ties					
CSS-100	0.5/12.70	10/254.00	3/76.20	240/1,112	25
CSS-160		16/406.46	4/101.60		50
CSS-135		13.5/342.90	3.5/88.90		25
CSS-270		27/685.80	8/203.20		10



One spacer for any cable size!

- Stackable for any desired spacing
- Less inventory — one catalogue number
- 1/2 in. high

Cat. No.	Description	Std. Pkg.
Modular Stackable Cable Spacers		
TCP5255	Modular Stackable Spacer for Deltec™ Straps	25
TCP360	For Coaxial Cable	100

Made of weather-resistant polypropylene
Colour — Black



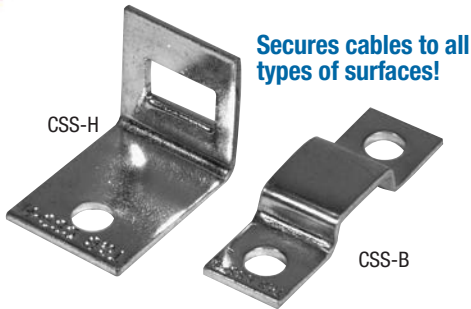
Heads for Deltec™ strap!

Made of weatherable acetal
Colour — Black

Cat. No.	Description	Std. Pkg.
Locking Heads		
TYD-LH	Heads only for Deltec™ Strap	25
696-41795		1,000

DELTEC™ Cable Support System

Lashing Straps and Accessories (cont'd)



Cat. No.	Description	Std. Pkg.
Deltec™ Base and Hanger		
CSS-B	Base for Deltec™ Strap	50
CSS-H	Hanger for Deltec™ Strap	

Made of zinc-plated steel



Cat. No.	Description	Std. Pkg.
Installation/Cutting Tool		
WT3D	Installs self-locking Ty-Rap® cable ties and Thomas & Betts lashing ties	25

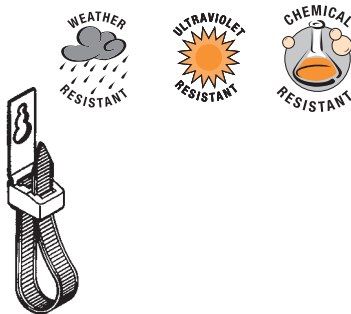
Cat. No.	Description	Tensile Strength (lb./N)	Body Width (in./mm)	Std. Pkg.
Deltec™ Strap Dispenser on Reels				
TYD-50R	50' Reel of Strap	250/1,112	0.50/12.70	1
696-41794	1,000' Reel of Strap			
696-41952	3,500' Reel of Strap			

Resistant to UV light, chemicals, and lower in moisture absorption

Nylon 12 is a lower, moisture-absorbing material than nylon 6/6 — making the effect of water on properties much less.



Weather-Resistant, Nylon 12 Messenger Hanger Straps (releasable)



Cat. No.	Body Width (in./mm)	Length (in./mm)	Max. Wire Bundle Dia. (in./mm)	Hook Material	Tensile Strength (lb./N)	Std. Pkg.		
Weather-Resistant Nylon 12 Messenger Hanger Straps (Releasable)								
TYM5412X	0.5/12.7	12/304.8	3/76.2	Bronze	200/889.6	50		
TYM5418X		18/457.2	5/127			25		
TYM5423X		24/609.6	7/177.8			25		
TYM5430X		30/762.0	9/228.6			25		
TYM5436X		36/914.4	11/279			25		
TYM5412X-S		12/304.8	3/76.2			Stainless Steel	50	
TYM5418X-S		18/457.2	5/127	25				
TYM5423X-S		24/609.6	7/177.8	25				
TYM5430X-S		30/762.0	9/228.6	25				
TYM5436X-S		36/914.4	11/279	25				
Weather-Resistant Nylon 12 Hanger Strap (Releasable)								
TY54407X		0.5/12.7	6.36/151.54	2/50.8		Steel	200/889.6	50
TY54413X	13.75/349.25		4/101.6	25				

The recommended, maximum continuous static loading for the nylon 12 straps is 25 lb. per strap. For best results, suggested spacing is 15 in. It's the responsibility of the user to determine whether or not their application meets our recommendation. Hook will accommodate 1/2 in. dia. messenger wire. For use in temperatures ranging from -40°C to 80°C (-40°F to 176°F). Colour — Black

DELTEC™ Cable Support System

Lashing Straps and Accessories (cont'd)

Carbon black prolongs the cable tie's life — UV protective, too!



Std. Cat. No.	Bulk Cat. No.	Body Width (in./mm)	Length (in./mm)	Max. Wire Bundle Dia. (in./mm)	Tensile Strength (lb./N)	Std. Pkg	Bulk Pkg.
Heavy-Duty Lashing Tie (Releasable)							
TY5409	TY409	0.5/12.7	19/482.6	4.75/120.65	200/889.6	25	100

Heavy-duty and made of weather-resistant nylon. For use in temperatures ranging from -40°C to 80°C (-40°F to 176°F).

An absolute in chemical environments when nylon isn't applicable

Chemical exposure directly affects the life of a cable tie making polypropylene ties an ideal choice. Black is usable for outdoor use, too.

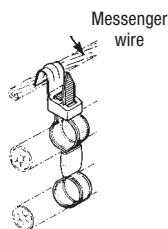


Cat. No.	Body Width (in./mm)	Length (in./mm)	Max. Wire Bundle Dia. (in./mm)	Tensile Strength (lb./N)	Std. Pkg.
Weather-Resistant Polypropylene Lashing Tie (Releasable)					
TY5418PX	0.5/12.7	18/457.2	5/127	150/667.2	25
TY5424PX		24/609.6	7/177.8		25
TY5442PX		42/1066.8	12/304.8		10
TY5460PX		60/1524	18/457.2		10
Weather-Resistant Polypropylene Hanger Lashing Tie (Releasable)					
TY53418PX	0.5/12.7	18/457.2	5/127	150/667.2	25

Made of black weather-resistant polypropylene for outdoor use. For use in temperatures ranging from -40°C to 80°C (-40°F to 176°F).



Spacer separating cable bundles

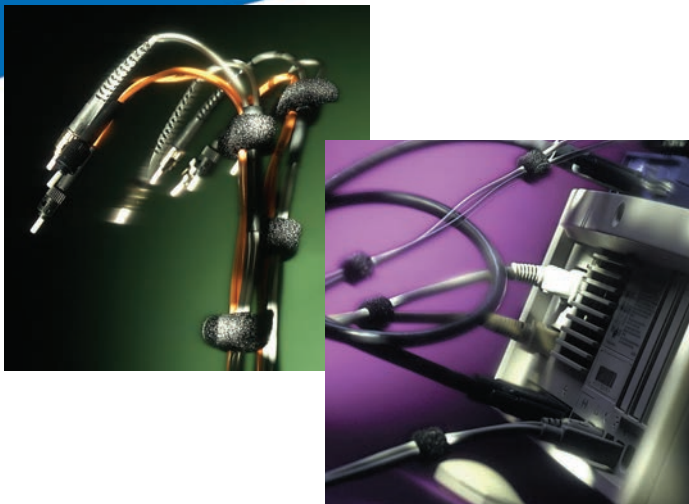


This one-inch long spacer allows you to separate power and signal cables with a single-hanger, lashing strap if desired. The spacer is stackable so that you may suspend the cable bundle at any desired distance from the messenger wire in order to keep the cable runs parallel.

Cat. No.	Description	Std. Pkg.
Messenger Hanger Spacer		
TC5254	1 in. long stackable spacer for messenger straps	50

Hook and Loop Fasteners

FO, FOL, FOS and FOR Series



New version available — UL94V-2 rated material

- High-quality Hook & Loop Fasteners designed specifically for Thomas & Betts
- Enables quick and convenient bundling of data and fiber optic cables
- Sizes available to accommodate varying bundle diameters
- Screw and adhesive mounting bases provide multiple mounting options



FO Series Loop Ties

Wrap pre-determined bundle diameters using the convenient slotted head!



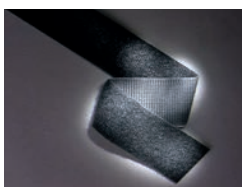
FOL Series Buckle Ties

Polymer buckles provide added strength and stability.



FOS Series Strip Ties

Pre-cut lengths make bundling a cinch!



FOR Series Rolled Hook and Loop

Rolled hook and loop material enables custom cut lengths, avoiding waste.

Fasteners available in these colours: Black, Brown, Red, Orange, Yellow, Green, Blue, Grey, and White.
Please consult Regional Sales Office for delivery and availability.

Cat. No.	Min. Tensile Strength (lb./N)	Max. Bundle Dia. (in./mm)	Length (in./mm)	Width (in./mm)	Std. Pkg.
*FO Series Loop Ties					
FO200-40-0	40/177.9	2.0/50.80	9/228.6	0.50/12.7	10
FO200-50-0	50/222.4			0.75/19.05	
FO350-40-0		3.5/88.90	13/330.2	0.50/12.7	
FO350-50-0	0.75/19.05				
FOL Series Buckle Ties					
FOL300-50-0	50/222.4	3.0/76.20	12/304.8	0.75/19.05	10
FOL500-50-0		5.0/127.00	18/457.2		
FOS Series Strip Ties					
FOS150-50-0	50/222.4	1.5/38.10	6/152.4	-	10
FOS320-50-0		3.2/81.28	12/304.8		
FOS500-50-0		5.0/127.00	18/457.2		
FOR Series Rolled Hook and Loop					
FOR180-50-0	50/222.4	Various	180/4572	-	1

Black is standard colour.
Multiple colours available for identifying specific bundles
*Add — "FR" for UL94V-2 rated material, after colour choice.
Contact your Regional Sales Office for availability and delivery.

Two mounting bases designed for use with hook and loop fasteners



Cat. No.	Description	Screw Size	Max. Tie Width Accom.	Std. Pkg.
Nylon 6/6 Mounting Bases				
TC368	2 in. x 2 in. Screw Mounted	#8	0.75/19.05	500
TC368A	2 in. x 2 in. Adhesive Mounted			

-40°F/-40°C to 176°F/80°C
Natural nylon colour.

Material Selection Ordering Guide

Physical Properties of Cable Tie Materials

TABLE 2

		Natural 6/6 Nylon	Weather Resistant 6/6 Nylon	Heat Stabilized Natural 6/6 Nylon	Flame Retardant 6/6 Nylon	Weatherable Acetal	Weather Resistant Nylon 12	Weather Resistant Polypropylene	Radiation Resistant Fluoropolymer	Halar® (2)	Stainless Steel
Physical Properties of Ty-Rap® Cable Tie Materials											
Tensile Strength (Yield)											
@ 23°C (Dry-As-Molded) (1)	psi	12,000	12,000	12,000	11,000	10,000	7,500	4,600	6,700	6,600	90,000
Flammability Rating	–	UL94V-2	UL94V-2	UL94V-2	UL94V-0	UL94HB	–	–	UL94V-0	UL94V-0	–
Radiation Resistance	rads	1 x 105	1 x 105	1 x 105	1 x 105	1 x 105	1 x 105	1 x 105	2 x 108	2 x 108	2 x 108
Ultraviolet Light Resistance	–	Poor	Good	Poor	Poor	Very Good	Good	Good	Excellent	Excellent	Excellent
Water Absorption (24 hrs)	%	1.3	1.2	1.4	1.4	0.25	0.25	0.1	<.01	<.01	None
Oxygen Index	–	28	28	31	34	21	–	–	30	52	–
Max. Continuous Use Temp.	C / F	85 / 185	85 / 185	105 / 221	85 / 185	85 / 185	80 / 176	85 / 185	170 / 338	140 / 284	537 / 1000
Min. Continuous Use Temp.	C / F	-40 / -40	-40 / -40	-40 / -40	-40 / -40	-40 / -40	-40 / -40	-40 / -40	-60 / -76	-46 / -50	-80 / -112
Colour	–	Natural	Black	Green tint	White	Black	Black	Black	Aqua	Maroon	Stainless

(1) ASTM D638-878 except stainless steel which is ASTM E8

(2) Halar® is a trademark of Solvay Solexis, Inc.

Flammability ratings for selecting Ty-Rap® cable ties

Note: These tests for flammability of plastic material are intended to serve as a preliminary indication of acceptability with respect to flammability for particular applications.

UL 94 vertical burn test procedures

Test specimens of the material, with dimensions 5 in. x 1/2 in., with the thickness intended for use in the end product, are tested in both the manufactured condition and in the aged state. The test requires that the specimen be supported in a vertical fixture and a precisely controlled flame applied for a 10 second period. The flame is removed and the duration of flaming is noted. If the flame extinguishes, a second exposure to flame for 10 seconds is applied and duration of flaming is again noted. It is observed and recorded whether or not test specimens drip flaming particles that ignite a cotton swatch.

Materials classed V-0

A material classed V-0 shall:

- A. Not have any specimens that burn with flaming combustion for more than 10 seconds after either application of the test flame.
- B. Not have a total flaming combustion time exceeding 50 seconds for the 10 flame applications for each set of five specimens.
- C. Not have any specimens that burn with flaming or glowing combustion up to the holding fixture.
- D. Not have any specimens that drip flaming particles that ignite the dry absorbent surgical cotton located 12 in. below the test specimen.
- E. Not have any specimens with glowing combustion that persists for more than 30 seconds after the second removal of the test flame.

Materials classed V-1

A material classed V-1 shall:

- A. Not have any specimens that burn with flaming combustion for more than 30 seconds after either application of the test flame.
- B. Not have a total flaming combustion time exceeding 250 seconds for the 10 flame applications for each set of five specimens.
- C. Not have any specimens that burn with flaming or glowing combustion up to the holding fixture.
- D. Not have any specimens that drip flaming particles that ignite the dry absorbent surgical cotton located 12 in. below the test specimen.
- E. Not have any specimens with glowing combustion that persists for more than 60 seconds after the second removal of the test flame.

Materials classed V-2

A material classed V-2 shall:

- A. Not have any specimens that burn with flaming combustion for more than 30 seconds after either application of the test flame.
- B. Not have a total flaming combustion time exceeding 250 seconds for the 10 flame applications for each set of five specimens.
- C. Not have any specimens that burn with flaming or glowing combustion up to the holding fixture.
- D. Be permitted to have specimens that drip flaming particles that burn only briefly, some of which ignite the dry absorbent surgical cotton placed 12 in. below the test specimen.
- E. Not have any specimens with glowing combustion that persists for more than 60 seconds after the second removal of the test flame.

Material Selection Ordering Guide

Chemical Resistance Chart (cont'd)

Table 3 shows the resistance of Ty-Rap® cable tie materials to various chemicals. The table is designed to help you determine the cable tie material best suited for a particular chemical environment.

TABLE 3

Reagents	Concentration	Heat-Stabilized 6/6 Nylon as Used in TYH Series	Halar®† as Used in TYV Series	Weatherable Acetal as Used in TYD Series	Standard 6/6 Nylon as Used in TY Series	6/6 Weather-Resistant Nylon as Used in TY Series	6/6 Fire-Retardant Nylon as Used in TY Series	Weather Resistant Nylon as Used in TYH Series	Polypropylene as Used in TYP Series	Weather Resistant Polypropylene as Used in TYP Series	Fluoro-polymer as Used in TYZ Series	Stainless Steel as Used in TYS Series
Resistance of Available Materials to Various Chemicals Temp 20°C (70°F)												
Arsenic Acid	40%	–	–	–	–	–	–	–	E	E	–	E
Acetaldehyde	50%	S	–	–	S	S	S	–	–	–	–	–
Acetone	100%	E	E	F	E	E	E	E	E	E	E	E
Aluminum Hydroxide	AQ	–	E	–	–	–	–	–	E	E	E	E
Ammonia	100%	–	E	–	–	–	–	E	E	E	E	–
Ammonium Carbonate	5%	S	E	–	S	S	S	E	E	E	E	E
Ammonium Hydroxide	10%	E	E	F	E	E	E	–	E	E	E	E
Ammonium Nitrate	–	–	E	–	–	–	–	E	E	E	E	E
Ammonium Sulfate	10%	–	E	–	–	–	–	S	S	S	S	S
Barium Carbonate	100%	–	E	–	–	–	–	E	E	E	E	E
Barium Chloride	5%	NR	–	–	NR	NR	NR	E	E	E	E	E
Barium Sulfate	10%	E	–	–	E	E	E	E	E	E	E	E
Barium Sulfide	10%	S	–	–	S	S	S	E	E	E	E	E
Benzene	100%	E	E	F	E	E	E	E	S	S	E	E
Benzoic Acid	100%	NR	E	–	NR	NR	NR	E	E	E	E	E
Butyric Acid	50%	NR	E	–	NR	NR	NR	–	E	E	E	E
Calcium Carbonate	AQ	–	E	–	–	–	–	–	E	E	E	E
Calcium Hydroxide	20%	–	F	E	–	–	–	–	E	E	E	E
Calcium Hydrochlorite	2%	NR	–	–	NR	NR	NR	–	F	F	F	F
Calcium Sulfate	2%	–	E	–	–	–	–	–	E	E	E	E
Carbon Tetrachloride	100%	E	E	E	E	E	E	E	F	F	E	E
Chlorine (WET)	–	NR	–	–	NR	NR	NR	–	F	F	F	F
Chlorine (DRY)	–	NR	–	–	NR	NR	NR	–	NR	NR	F	F
Chloroacetic Acid	30%	NR	–	–	NR	NR	NR	–	–	–	F	F
Chloroform	100%	–	E	–	–	–	–	F	F	F	E	E
Chromic Acid	50%	NR	S	–	NR	NR	NR	–	F	F	F	F
Citric Acid	50%	S	E	E	S	S	S	E	E	E	E	E
Copper Cyanide	10%	–	E	–	–	–	–	–	E	E	E	E
Copper Nitrate	50%	–	E	–	–	–	–	–	E	E	E	E
Cider	–	–	E	–	–	–	–	–	E	E	E	E
Dichloroethane	100%	–	E	–	–	–	–	–	–	–	E	E
Diethyl Ether	100%	–	E	S	–	–	–	E	E	E	E	E
Ethyl Alcohol	100%	S	E	–	S	S	S	E	E	E	E	E

† Halar® Trademark of Solvay Solexis, Inc.

Ratings

E = Excellent

S = Satisfactory

F = Fair

NR = Not Recommended

AQ = Aqueous

Material Selection Ordering Guide

Chemical Resistance Chart (cont'd)

TABLE 3 (con't)

Reagents	Concentration	Heat-Stabilized 6/6 Nylon as Used in TYH Series	Halar [®] † as Used in TYV Series	Weatherable Acetal as Used in TYD Series	Standard 6/6 Nylon as Used in TY Series	6/6 Weather-Resistant Nylon as Used in TY Series	6/6 Fire-Retardant Nylon as Used in TY Series	Weather Resistant Nylon as Used in TYH Series	Polypropylene as Used in TYP Series	Weather Resistant Polypropylene as Used in TYP Series	Fluoro-polymer as Used in TYZ Series	Stainless Steel as Used in TYS Series
Resistance of Available Materials to Various Chemicals Temp 20°C (70°F)												
Ethyl Chloride	100%	–	S	E	–	–	–	F	F	F	E	E
Ethylene Glycol	100%	E	E	S	E	E	E	–	E	E	E	E
Ferric Hydroxide	100%	–	E	–	–	–	–	–	E	E	E	E
Ferric Nitrate	10%	–	E	–	–	–	–	–	E	E	E	E
Ferrous Sulfate	10%	–	E	–	–	–	–	–	E	E	E	E
Fuel Oil	100%	–	E	–	–	–	–	E	–	–	E	E
Furfural	100%	–	E	–	–	–	–	–	F	F	E	E
Gallic Acid	AQ	–	E	–	–	–	–	–	–	–	E	E
Gasoline	100%	E	E	–	E	E	E	–	S	S	E	E
Glycerine	100%	–	E	–	–	–	–	E	E	E	–	E
Hydrocyanic Acid	100%	–	E	–	–	–	–	–	E	E	E	E
Hydrogen Peroxide	30%	NR	E	F	NR	NR	NR	S	E	E	E	E
Hydrogen Sulfide	Dry	NR	E	–	NR	NR	NR	E	E	E	E	E
Iodoform	100%	–	E	–	–	–	–	–	–	–	E	E
Isopropyl Alcohol	100%	S	E	–	S	S	S	E	E	E	E	E
Jet Fuel	100%	E	E	–	E	E	E	–	S	S	E	E
Lactic Acid	10%	E	E	–	E	E	E	S	E	E	E	E
Lanolin	10%	E	E	–	E	E	E	E	E	E	E	E
Lead Acetate	5%	–	E	–	–	–	–	–	E	E	E	E
Linseed Oil	10%	E	E	E	E	E	E	E	E	E	E	E
Magnesium Carbonate	100%	–	E	–	–	–	–	E	E	E	E	E
Magnesium Chloride	10%	F	–	–	F	F	F	F	F	F	F	F
Magnesium Nitrate	100%	–	E	–	–	–	–	E	E	E	E	E
Malic Acid	AQ	–	E	–	–	–	–	–	E	E	E	E
Mercury	100%	–	E	–	–	–	–	E	E	E	E	E
Methyl Alcohol	100%	S	E	–	S	S	S	E	E	E	E	E
Methyl Chloride	100%	–	S	–	–	–	–	–	S	S	E	E
Methyl Ethyl Ketone	100%	–	E	F	–	–	–	E	E	E	E	E
Naptha	100%	–	E	–	–	–	–	–	E	E	E	E
Nitric Acid	30%	NR	E	NR	NR	NR	NR	–	E	E	E	E
Nitric Acid	30%-70%	NR	S	NR	NR	NR	NR	–	F	F	S	E
Nitrous Acid	5%	–	E	–	–	–	–	–	F	F	E	E
Oleic Acid	100%	–	E	S	–	–	–	–	E	E	E	E
Oxalic Acid	10%	–	E	–	–	–	–	S	E	E	E	E
Paraffin	100%	E	E	–	E	E	E	E	E	E	E	E
Petroleum Ether	100%	–	E	–	–	–	–	E	F	F	E	E
Phenol	90%	NR	E	NR	NR	NR	NR	–	E	E	E	E
Phosphoric Acid	10%	NR	E	–	NR	NR	NR	–	E	E	E	E
Picric Acid	1%	–	E	–	–	–	–	–	E	E	E	E
Potassium Bromide	AQ	–	–	–	–	–	–	–	S	S	S	S

† Halar[®] Trademark of Solvay Solexis, Inc.

Ratings

E = Excellent

S = Satisfactory

F = Fair

NR = Not Recommended

AQ = Aqueous

Material Selection Ordering Guide

Chemical Resistance Chart (cont'd)

TABLE 3 (con't)

Reagents	Concentration	Heat-Stabilized 6/6 Nylon as Used in TYH Series	Halar [†] as Used in TYV Series	Weatherable Acetal as Used in TYD Series	Standard 6/6 Nylon as Used in TY Series	6/6 Weather-Resistant Nylon as Used in TY Series	6/6 Fire-Retardant Nylon as Used in TY Series	Weather Resistant Nylon as Used in TYH Series	Polypropylene as Used in TYP Series	Weather Resistant Polypropylene as Used in TYP Series	Fluoro-polymer as Used in TYZ Series	Stainless Steel as Used in TYS Series
Resistance of Available Materials to Various Chemicals Temp 20°C (70°F)												
Potassium Carbonate	–	E	–	–	–	–	–	E	E	E	E	–
Potassium Chlorate	AQ	–	E	–	–	–	–	S	E	E	E	E
Potassium Dichromate	40%	NR	E	–	NR	NR	NR	F	E	E	E	E
Potassium Ferrocyanide	25%	–	E	–	–	–	–	–	E	E	E	E
Potassium Hydroxide	5%	S	E	–	S	S	S	–	E	E	E	E
Potassium Iodide	100%	–	E	–	–	–	–	E	E	E	E	E
Potassium Nitrate	50%	F	E	–	F	F	F	E	E	E	E	E
Potassium Permanganate	5%	NR	E	S	NR	NR	NR	NR	E	E	E	E
Potassium Sulfate	5%	–	E	–	–	–	–	E	E	E	E	E
Potassium Sulfide	AQ	–	E	–	–	–	–	–	E	E	E	E
Propyl Alcohol	100%	E	E	–	E	E	E	–	E	E	E	E
Silver Nitrate	10%	–	E	–	–	–	–	E	E	E	E	E
Sodium Acetate	60%	E	E	–	E	E	E	–	E	E	E	E
Sodium Bicarbonate	100%	E	E	–	E	E	E	E	E	E	E	E
Sodium Bisulfate	10%	–	E	E	–	–	–	E	E	E	E	E
Sodium Borate	100%	–	E	–	–	–	–	–	E	E	E	E
Sodium Carbonate	5%	E	E	S	E	E	E	E	E	E	E	E
Sodium Chlorate	25%	–	E	E	–	–	–	S	E	E	E	E
Sodium Chloride	2%	E	E	S	E	E	E	E	E	E	E	E
Sodium Fluoride	5%	–	–	–	–	–	–	–	F	F	F	F
Sodium Hydroxide	10%	E	E	S	E	E	E	E	E	E	E	E
Sodium Hyposulfite	AQ	–	E	–	–	–	–	–	–	–	E	E
Sodium Nitrate	5%	E	E	–	E	E	E	E	E	E	E	E
Sodium Nitrite	AQ	–	E	–	–	–	–	S	E	E	E	E
Sodium Perchlorate	10%	–	E	–	–	–	–	–	–	–	E	E
Sodium Phosphate	5%	–	E	–	–	–	–	E	E	E	E	E
Sodium Sulfate	5%	S	E	–	S	E	E	E	E	E	E	E
Sodium Thiosulfate	5%	–	–	S	–	–	–	S	S	S	S	S
Stearic Acid	100%	–	E	–	–	–	–	F	E	E	E	E
Sulfur	100%	–	E	–	–	–	–	E	E	E	E	E
Sulfur Dioxide	100%	NR	E	–	NR	NR	NR	E	E	E	E	E
Sulfuric Acid	Conc.	NR	E	NR	NR	NR	NR	–	S	S	E	E
Sulfuric Acid	5%	NR	F	F	NR	NR	NR	F	F	F	F	F
Tannic Acid	10%	–	E	–	–	–	–	–	E	E	E	E
Tartaric Acid	50%	–	E	E	–	–	–	E	E	E	E	E
Tetrahydrofuran	100%	–	F	E	–	–	–	S	F	F	E	E
Toluene	100%	E	E	F	E	E	E	E	F	F	E	E
Xylene	100%	E	–	–	E	E	E	E	F	F	E	E
Zinc Chloride	70%	F	E	NR	F	F	F	E	E	E	E	E
Zinc Nitrate	AQ	–	E	–	–	–	–	E	E	E	E	E
Zinc Sulfate	AQ	–	E	–	–	–	–	E	E	E	E	E

† Halar® Trademark of Solvay Solexis, Inc.

Ratings

E = Excellent

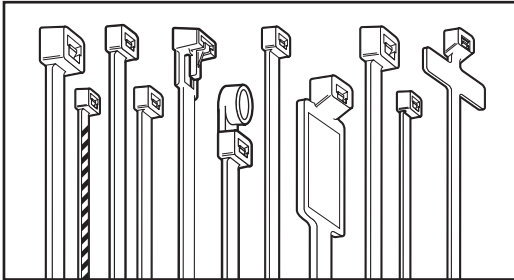
S = Satisfactory

F = Fair

NR = Not Recommended

AQ = Aqueous

Catamount® Cable Ties



- Miniature
- Heavy-Duty
- Intermediate
- Extra Heavy-Duty
- Standard
- Releasable Ties
- Mounted Head
- Striped Ties
- Restricted Bundle
- Identification Ties
- Mil-Spec Ties

Catamount® Cable Ties are available in lengths from 4 in. to our exclusive 48 in. strap. Cable Ties will satisfy bundling requirements from 1/16 in. to 15 in. and loop tensile strengths from 18 to 175 pounds. Cable Ties are stocked in materials and colours as listed. Contact your Regional Sales Office for availability in special colours. Where applicable, Catamount® Cable Ties are UL Recognized, Mil-Spec Approved and/or QPL Listed. State-of-the-art robotic and raw material handling equipment assures product and material integrity throughout the manufacturing process. Overall quality is achieved through statistical analysis and quality driven operator objectives. Catamount® has attained Mil-Spec I-45208 quality ratings from a number of equipment manufacturers. Catamount® products are sold through stocking T&B® Distributors.

Strict Tolerances Assure Locking Strength

Reinforced Head and Strap Transition for Added Strength

Highly Engineered Tooth and Pawl Design for Maximum Engagement

Bent Tip Design for Easier Assembly

Recessed Entry to Guide Insertion

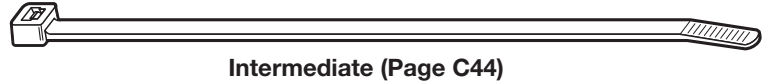
Generous Radii on All Angles to Reduce Friction

Gradual Strap to Tail Transition for Lower Insertion Force

Raised Grips on Tail to Assist Operators



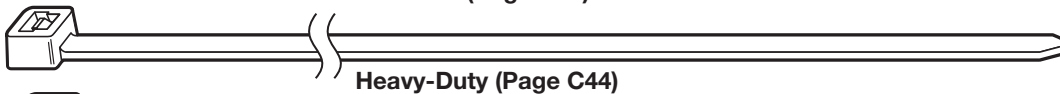
Miniature (Page C44)



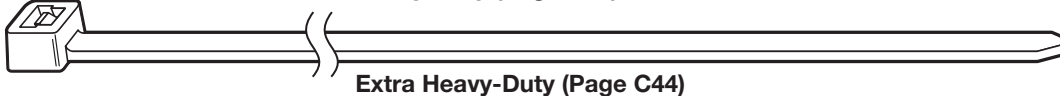
Intermediate (Page C44)



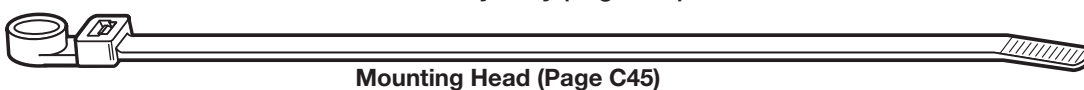
Standard (Page C44)



Heavy-Duty (Page C44)



Extra Heavy-Duty (Page C44)



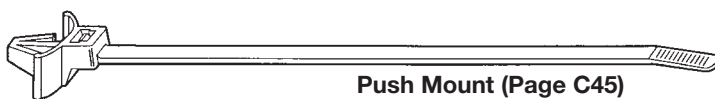
Mounting Head (Page C45)



Releasable (Page C45)



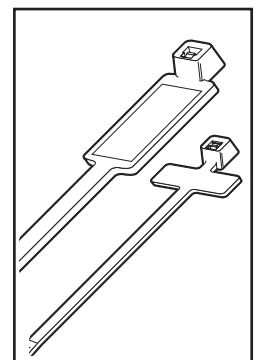
Mil-Spec (Page C47)



Push Mount (Page C45)



Striped (Page C48)



I.D. Ties (Page C46)

Catamount® Cable Ties

Catalogue Number Construction

L **4** **18** **HS** **-** **9** **M**

Product Prefix
 P - Plain Bagged Cable Ties
 L - Cable Ties

Length
 18 lb.
 30 lb.
 40 lb.
 50 lb.
 120 lb.
 175 lb.
 250 lb.

Tensile Strength

Type of Product
 Nylon 6/6 - Leave Blank
 Heat Stabilized - HS
 (Black and Natural Colour Only)
 Fluorescent - FL
 Mounting Head - MH
 Pushmount - PM
 Pushmount Releasable - PMR
 Releasable - R
 Restricted Bundle - TB
 Identification - ID

Colour
 See Colour Table

Quantity
 Q - 25 pack
 L - 50 pack
 C - 100 pack
 D - 500 pack
 M - 1,000 pack

MP **NY** **-** **750** **-** **9** **C**

Material
 Nylon
 TZ - Fluoropolymer
 PV - PVC
 PE - Polyethylene
 FR - Flame Retardant
 TL - Teflon

Size / #
 .75"

Colour
 See Colour Table

Quantity
 Q - 25 pack
 L - 50 pack
 C - 100 pack
 D - 500 pack
 M - 1,000 pack

- Product Prefix**
- MP - Mounting Pad
 - ID - Identification
 - S# - Strapping Thickness
 - MC - Mounting Cradle
 - PM - Push Mounts
 - SM - Screw Mounts
 - N# - Plain-Edged Cable Clamps / Width
 - W# - Self-Aligning Cable Clamps / Dia.
 - UL - Adjustable Cable Clamps
 - GG - Gator Grip
 - FA - Flat Adhesive Clip
 - FS - Flat Screw Clip
 - FR - Flat Rubber Adhesive Clip
 - MS - Snap Mount
 - RA - Round Adhesive Clip
 - SR - Spiral Wrap
 - GS - Grommeting
 - GR - Extruded Grommeting
 - GRU - Extruded Grommeting Uncut

0 - Black	7 - Purple
(Weather-Resistant)	8 - Grey
1 - Brown	9 - Natural
2 - Red	11 - Fluorescent Pink
3 - Orange	16 - Fluorescent Orange
4 - Yellow	17 - Fluorescent Yellow
5 - Green	18 - Fluorescent Green
6 - Blue	20 - Fluorescent Blue

Catamount® Cable Ties

Property	ASTM Method	Test Condition	Units	Molded 6/6 Nylon	Heat Stabilized Nylon	UV Black Nylon
Materials for Molded Assembly Hardware						
Tensile Strength	D638	+23°C; 50% RH	kpsi	11.2	11.2	9.0
Elongation at Break	D638	+23°C; 50% RH	%	Z300	Z300	200
Yield Strength	D638	+23°C; 50% RH	kpsi	8.5	8.5	9.0
Shear Strength	D732	Dry As Molded (DAM)	kpsi	9.6	9.6	10.5
Deformation Under Load	D621	2,000 psi +50°C; DAM	%	1.4	1.4	1.2
IZOD Impact	D256	+23°C; 50% RH	ft. lb./in.	2.1	2.1	2.0
Tensile Impact Strength	D1822	+23°C; Long Specimen; DAM	ft. lb./in.2	240	240	N.R.
Melting Point	D789	Fisher-Johns	°F	491	491	491
Thermal Linear Expansion	D696	DAM	in./in./°F	4 x 10-5	4 x 10-5	N.R.
Thermal Conductivity	—	DAM Conche-Fitch	BTU - in/h . ft2 . °F	1.7	1.7	1.7
Brittleness Temperature	D746	50% RH	°F	-85	-85	-62
Oxygen Index	D2863	DAM 50% RH	%O2	28 31	28 31	25 31
UL Flammability	UL 94	DAM 50% RH	— —	V-2 V-2	V-2 V-2	V-2 V-2

- Material data as provided by our suppliers
- N.R. = Not Reported
- Tests conducted on 1/4 in. specimens

About Nylon...

Nylons possess an outstanding balance of properties combining strength, moderate stiffness, high service temperature and a high level of toughness. Nylon is particularly resistant to repeated impact, has a low co-efficient of friction and excellent abrasion resistance.

Nylon is resistant to fuels, lubricants and most chemicals, but is attacked by phenols, strong acids and oxidizing agents. Contact your Regional Sales Office for chemical data relative to your application.

Nylon is inherently susceptible to environmental conditions. Catamount® Cable Ties are moisturized to optimum performance levels at machine-side and should be stored in cool dry areas out of direct sunlight. Cable Ties are packaged in plastic bags to contain moisture and should remain sealed until ready for use.

Sample Thickness (in.)	UL Flammability	Energy Source	Specific Optical Density	
			at Maximum Smoke Accumulation	at 2 Minutes
NBS Smoke Generation for 6/6 Nylon				
1/16	94 V-2	Radiant (2.5 watts/sq cm)	13	0
1/8	94 V-2	Radiant Plus Flaming Gas Jets	26	1

Results as provided by National Bureau of Standards (NBS). Results may not be directly correlated with larger fires, such as burning buildings. Materials should be tested to your application.

Material	Minimum Thickness (in.)	Temperature Index		Hot Wire Ignition (sec)
		Electrical (°C)	Mechanical w/o Impact (°C)	
Temperature Index for Molded Nylons				
6/6 Nylon	0.580	1.25	85	15.0
UV Black Nylon	0.120	1.25	85	35.0
	0.240	1.25	85	35.0
Heat Stabilized Nylon	0.580	1.30	105	11.0
	0.120	1.30	110	20.0

Temperature Index is the temperature at which the specific property will decrease to one-half its original value after 60,000 hours exposure at that temperature.

Catamount® Cable Ties

Catamount® Ties and Terminals fit the needs of general-purpose fastening and wire terminations. Installers quickly discover that Catamount® products offer durable and value-priced cable bundling for a variety of commercial and residential construction applications. Electricians can also take advantage of other benefits in stocking Catamount® products in their toolboxes, such as more terminals per bag in most popular sizes than leading comparable brands.

Catamount® Ties and Terminals are offered in a wide range of sizes, styles and colours and meet listing requirements for most electrical termination and fastening projects. A choice of matching tools are also offered to provide quick and reliable installations.



Cat. No.	Length (in.)	Max. Bundle Dia. (in.)	Colour	Std. Pkg.
Miniature — Series 18				
L-4-18-9-C	4.0	5/8	Natural	100
L-4-18-0-C			Black	
L-6-18-9-C	6.4	1-1/2	Natural	
L-6-18-0-C			Black	
L-8-18-9-C	8.0	2	Natural	
L-8-18-0-C			Black	

Bulk packages available. Contact your Regional Sales Office.
Use QC-100, L-200, L-400-C or ERG-50 Installation Tools.



Cat. No.	Length (in.)	Max. Bundle Dia. (in.)	Colour	Std. Pkg.
Standard — Series 50				
L-5-50-9-C	5.5	1	Natural	100
L-5-50-0-C			Black	
L-7-50-9-C	7.5	1-3/4	Natural	
L-7-50-0-C			Black	
L-11-50-9-C	11.1	3	Natural	
L-11-50-0-C			Black	
L-14-50-9-C	14.1	4	Natural	
L-14-50-0-C			Black	

Bulk packages available. Contact your Regional Sales Office.
Use QC-100, L-200, L-400-C or ERG-50 Installation Tools.



Cat. No.	Length (in.)	Max. Bundle Dia. (in.)	Colour	Std. Pkg.
Extra Heavy-Duty — Series 175				
L-24-175-9-L	24.00	7.2	Natural	50
L-24-175-0-L			Black	
L-34-175-9-L	34.0	10	Natural	
L-36-175-9-L			36.0	
L-36-175-0-L	Black			
L-41-175-9-L	41.0	12	Natural	
L-41-175-0-L			Black	
L-48-175-9-L	48.0	15	Natural	
L-48-175-0-L			Black	

Use L300-FR or ERG-120 Installation Tools.



Cat. No.	Length (in.)	Max. Bundle Dia. (in.)	Colour	Std. Pkg.
Intermediate — Series 30				
L-5-30-9-C	5.6	1-1/4	Natural	100
L-5-30-0-C			Black	
L-8-40-9-C	8.5	2	Natural	
L-8-40-0-C			Black	
L-11-40-9-C	11.5	3	Natural	
L-11-40-0-C			Black	
L-14-40-9-C	14.5	4	Natural	
L-14-40-0-C			Black	

Bulk packages available. Contact your Regional Sales Office.
Use QC-100, L-200, L-400-C or ERG-50 Installation Tools.



Cat. No.	Length (in.)	Max. Bundle Dia. (in.)	Colour	Std. Pkg.
Heavy-Duty — Series 120				
L-8-120-9-C	8.0	2	Natural	100
L-8-120-0-C			Black	
L-11-120-9-C	11.1	3	Natural	
L-11-120-0-C			Black	
L-14-120-9-C	14.2	4	Natural	
L-14-120-0-C			Black	
L-18-120-9-L	18.0	4-7/8	Natural	50
L-18-120-0-L			Black	
L-24-120-9-L	24.2	7	Natural	
L-24-120-0-L			Black	
L-28-120-9-L	28.0	8	Natural	
L-28-120-0-L			Black	

Use L-300C or ERG-120 Installation Tools.

Sample Catalogue Order:

Length: L 4 18 9 C
Colour: 9 C
Tensile Strength: 4
Quantity: 18

4 in. Length, 18 lb. Tensile Strength, Natural Colour, 100-Pack Quantity

Colour Table

- 0 – Black (UV Resistant)
- 1 – Brown
- 2 – Red
- 3 – Orange
- 4 – Yellow
- 5 – Green
- 6 – Blue
- 7 – Purple
- 8 – Grey
- 9 – Natural
- 11 – Fluorescent Pink
- 16 – Fluorescent Orange
- 17 – Fluorescent Yellow
- 18 – Fluorescent Green
- 20 – Fluorescent Blue

Catamount® Cable Ties



Cat. No.	Length (in.)	Max. Bundle Dia. (in.)	Colour	Std. Pkg.
Releasable Ties				
L-5-50R-0-C	5.90	1-1/4	Black	100
L-8-50R-9-C	7.80	2	Natural	
L-8-50R-0-C			Black	
L-10-50R-9-C	11.27	3	Natural	
L-10-50R-0-C			Black	

Bulk packages available. Contact your Regional Sales Office. Push button release.



Cat. No.	Length (in.)	Mounting Hole	Max. Panel Thickness	Max. Bundle Dia. (in.)	Colour	Std. Pkg.
Push Mount Cable Ties						
L-5-50PM-0-C	5.80	0.250	0.105	1	Black	100
L-7-50PM-9-C	8.20			1-3/4	Natural	
L-7-50PM-0-C				Black		

Bulk packages available. Contact your Regional Sales Office. Use QC-100, L-200 or L-400-C Installation Tools. Black shown.



Cat. No.	Length (in.)	Max. Bundle Dia. (in.)	Width (in.)	Min. Loop Tensile	Mounting Head Screw Size	Colour	Std. Pkg.
Mounting Head Ties							
L-5-30MH-9-C	5.85	1-1/4	0.140	30	No. 8	Natural	100
L-5-30MH-0-C						Black	
L-7-50MH-9-C	7.50	1-3/4	0.185		No. 10	Natural	
L-7-50MH-0-C						Black	
L-11-50MH-9-C	11.10	3	0.187	50	Natural		
L-11-50MH-0-C					Black		
L-14-50MH-9-C	14.50	4	0.300	120	1/4 in.	Natural	
L-14-50MH-0-C						Black	
L-14-120MH-9-C	14.85	4	0.300	120	1/4 in.	Natural	
L-14-120MH-0-C						Black	

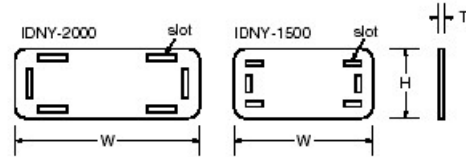
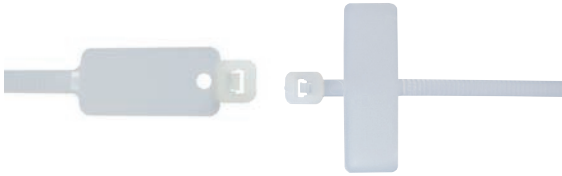
Bulk packages available. Contact your Regional Sales Office. Use QC-100, L-200, L-400-C, ERG-120 or ERG-50 Installation Tools.



Cat. No.	Length (in.)	Mounting Hole	Max. Panel Thickness	Max. Bundle Dia. (in.)	Colour	Std. Pkg.
Releasable Push Mount Cable Ties						
L-5-50PMR-9-C	5.80	0.250	0.105	1	Natural	100
L-7-50PMR-9-C	8.20			1-3/4	Natural	
L-7-50PMR-0-C				Black		

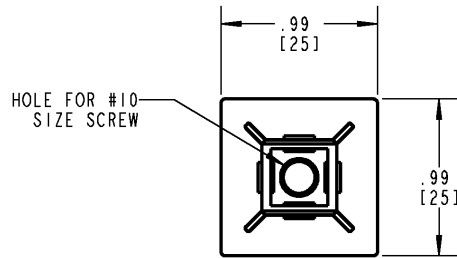
Bulk packages available. Contact your Regional Sales Office. Use QC-100, L-200 or L-400-C Installation Tools.

Catamount® Cable Ties



Cat. No.	Length (in.)	Max. Bundle Dia. (in.)	Colour	Std. Pkg.
Identification Ties				
L-7-50ID-9-C	7.875	1-3/4	Natural	100
L-4-18ID-9-C	4.0	3/4	Natural	

Bulk packages available. Contact your Regional Sales Office.
Use QC-100, L-200, L-400-C or ERG-50 Installation Tools.



Cat. No.	Width (in.)	Height (in.)	Slot Height (in.)	Slot Width (in.)	Colour	Std. Pkg.
Identification Tags						
IDNY-1500-9-M	1.5	0.745	0.090	0.200	Natural	100
IDNY-2000-9-M	2.0		0.113	0.336	Natural	

- 3/4 in. and 1 in. mounts for use with 18# through 50# tensile cable ties
- Supplied on rubber-based or acrylic closed cell foam adhesive or with no adhesive for #10 screw mount applications
- Available in Natural Nylon 6/6 and Black Nylon 6/6
- UL Flammability 94 V-2 (clip)

Cat. No.	Mount Method	Colour
Cable Tie Mounting Bases		
3/4 in. Class		
MPNY-750-9-C	Synthetic Rubber Adhesive	Natural
MPNY-750-0-C	Synthetic Rubber Adhesive	Black
MPNY-750A-9-C	Acrylic Adhesive	Natural
MPNY-750A-0-C	Acrylic Adhesive	Black
MPNY-750S-9-C	Synthetic Rubber Adhesive c/w #10 Center Bolt Hole	Natural
MPNY-750S-0-C		Black
1 in. Class		
MPNY-1000-9-C	Synthetic Rubber Adhesive	Natural Nylon
MPNY-1000-0-C	Synthetic Rubber Adhesive	Black Nylon
MPNY-1000A-9-C	Acrylic Adhesive	Natural Nylon
MPNY-1000A-0-C	Acrylic Adhesive	Black Nylon
MPNY-1000S-9-C	Synthetic Rubber Adhesive c/w #10 Center Bolt Hole	Natural Nylon
MPNY-1000S-0-C		Black Nylon

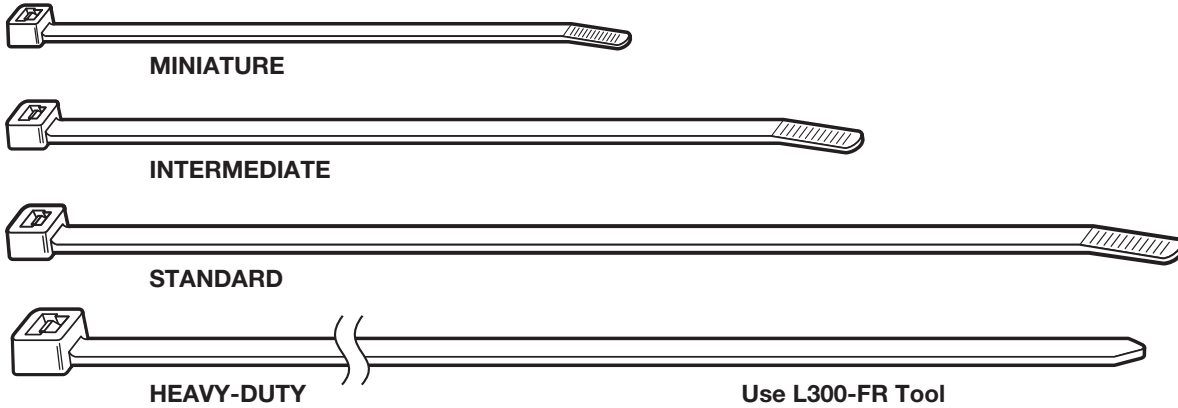
For use with 18–50 lb. Cable Ties.

- Mounting Surface should be cleaned with alcohol based (IPA) cleaner before application
- Acrylic Based may be repositioned initially. Allow 24–72 hours setup for maximum performance with Acrylic Based adhesives
- For Rubber Based, allow 15 minutes setup for maximum performance

Catamount® Cable Ties

Catamount® Military Specification Ties

The following cable ties meet the stringent requirements of military specifications. To locate ties that meet a particular specification, refer to the chart below.



Cat. No.		Mil-Spec	Material	ID Code	Tool Setting	Std. Pkg.	Bulk Pkg.
Mil-Spec Cable Ties							
L-14-50-9-C	L-14-50-9-D	MS-3367-2-9	Natural Nylon	STD	6 to 8	100	500
L-14-50-0-C	L-14-50-0-D	MS-3367-2-0	UV Black Nylon	STD	6 to 8	100	500
L-14-120-9-C	-	MS-3367-3-9	Natural Nylon	HVY	5 to 8	100	-
L-14-120-0-C	-	MS-3367-3-0	UV Black Nylon	STD	6 to 8	100	-
L-4-18-9-C	-	MS-3367-4-9	Natural Nylon	MIN	1 to 3	100	-
L-4-18-0-C	-	MS-3367-4-0	UV Black Nylon	MIN	1 to 3	100	-
L-5-30-9-C	-	MS-3367-5-9	Natural Nylon	INT	3 to 5	100	-
L-5-30-0-C	-	MS-3367-5-0	UV Black Nylon	INT	3 to 5	100	-
L-11-50-9-C	L-11-50-9-D	MS-3367-7-9	Natural Nylon	STD	6 to 8	100	500
L-11-50-0-C	L-11-50-0-D	MS-3367-7-0	UV Black Nylon	STD	6 to 8	100	500
L-28-120-9-L	-	MS-3367-6-9	Natural Nylon	HVY	5 to 8	50	-
L-28-120-0-L	-	MS-3367-6-0	UV Black Nylon	HVY	5 to 8	50	-

- Use L-200, L-400-C or ERG-297 Installation Tools
- Catamount® FSCM 54664 QPL Listed

To assure that military labeling requirements are met when ordering MIL-SPEC Cable Ties, please reference the desired MS number when ordering.

Sample Catalogue Order:

L 4 18 9 C = Natural Colour Type

Colour Table

0 – Black (Outdoor)	5 – Green	11 – Fluorescent Pink
1 – Brown	6 – Blue	16 – Fluorescent Orange
2 – Red	7 – Purple	17 – Fluorescent Yellow
3 – Orange	8 – Grey	18 – Fluorescent Green
4 – Yellow	9 – Natural	20 – Fluorescent Blue

Catamount® Cable Ties



- Striped ties are used to identify wire bundles primarily for P.I.C. and station cable binder marking
- Telecom applications

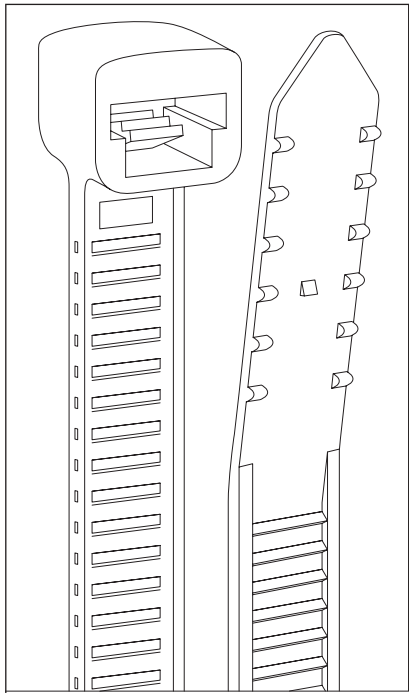
Cat. No.	Tie Colour	Stripe Colour	Diameter		Length		Width		Loop Tensile		Std. Pkg.
			(in.)	(mm)	(in.)	(mm)	(in.)	(mm)	lb.	kg	
Striped Ties											
L-4-18-1/10-L	Brown	White	1/16 - 7/8	2 - 16	4.0	102	0.100	3	18	8.2	50
L-4-18-1/2-L		Red									
L-4-18-1/0-L		Black									
L-4-18-1/4-L		Yellow									
L-4-18-1/7-L		Purple									
L-4-18-3/10-L	Orange	White									
L-4-18-3/2-L		Red									
L-4-18-3/0-L		Black									
L-4-18-3/4-L		Yellow									
L-4-18-3/7-L		Purple									
L-4-18-5/10-L	Green	White									
L-4-18-5/2-L		Red									
L-4-18-5/0-L		Black									
L-4-18-5/4-L		Yellow									
L-4-18-5/7-L		Purple									
L-4-18-6/10-L	Blue	White									
L-4-18-6/2-L		Red									
L-4-18-6/0-L		Black									
L-4-18-6/4-L		Yellow									
L-4-18-6/7-L		Purple									
L-4-18-8/10-L	Grey	White									
L-4-18-8/2-L		Red									
L-4-18-8/0-L		Black									
L-4-18-8/4-L		Yellow									
L-4-18-8/7-L		Purple									

Also available in bulk packages of 1,000.
 Use QC-100, L-200, L-400-C, or ERG50 Installation Tools.
 Consult your Regional Sales Office for availability and colours.

T&B Cable Ties®

Ty-Fast®

From one end to the other, T&B® Cable Ties fit the needs of OEMs



- The integrally formed nylon pawl combines low insertion and high locking strength
- A rounded, low-profile head makes for less snags
- Tails have an improved two-sided finger grip design that helps the operator grasp and pull ties snug
- “Sure Grip” tab keeps the tail from popping out while being threaded, then holds it securely for final tightening by hand or tool
- Quick, easy pull through increases productivity, reduces operator fatigue

Designed with OEMs in mind, this new series of competitively priced T&B® cable ties holds down costs and speeds up cable fastening. Our all-nylon design lowers installation costs and provides features to ease fastening for harness fabrication and wire bundling in the manufacturing environment.

T&B® cable ties are made of nylon 6/6 and perform well in most applications in temperatures ranging from -40°C to 85°C. The smooth edges are designed to prevent damage to wire insulation, reducing the opportunity for shorting, and tails are “turned up” for fast assembly. T&B® cable ties come in natural or outdoor weatherable black, and custom colours and options are available.

T&B® cable ties may be fastened with standard Thomas & Betts tying tools. All your favorite Ty-Rap® mounting bases and accessories may be used with T&B® cable ties. For harsh industrial environments, use our “grip of steel” Ty-Rap® cable ties with the unique stainless steel barb. Ty-Rap® and T&B® cable ties combine to offer the most complete package of cable ties and accessories for the fastening market.

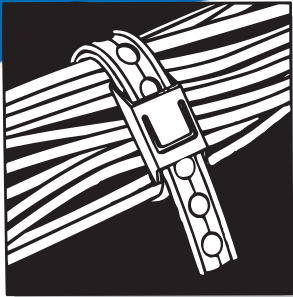
T&B® cable ties come in large poly bags for convenient inventory and easy access at the manufacturing site. Call your local Thomas & Betts distributor today and find out how well T&B® cable ties can fit your needs, from one end to the other.

Cat. No.	Min. Tensile Strength (in./lb.)	Military Standard Part No.	Tie Length (in.)	Max. Bundle Diameter (in.)	Width (in.)	Std. Pkg. (pieces)
T&B® Cable Ties						
TY075-18	18	MS3367-4	3.60	0.75	0.095	1,000
TY125-18	18	–	5.34	1.25	0.095	1,000
TY125-40	40	MS3367-5	5.60	1.25	0.140	1,000
TY200-18	18	–	7.75	2.00	0.095	1,000
TY200-40	40	–	8.00	2.00	0.140	1,000
TY200-120	120	–	8.63	2.00	0.299	500
TY300-40	40	–	11.40	3.00	0.140	1,000
TY175-50	50	MS3367-1	7.30	1.75	0.184	1,000
TY300-50	50	MS3367-7	11.40	3.00	0.184	1,000
TY400-50	50	MS3367-2	14.30	4.00	0.184	1,000
TY400-120	120	MS3367-3	14.30	4.00	0.301	500

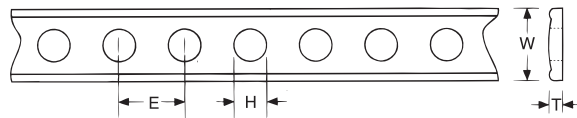
Add suffix (-20) for cosmetic black, non-weatherable material.

Cat. No.	Min. Tensile Strength (in./lb.)	Military Standard Part No.	Tie Length (in.)	Max. Bundle Diameter (in.)	Width (in.)	Std. Pkg. (pieces)
Outdoor Weatherable (black)						
TY075-18X	18	–	3.60	0.75	0.095	1,000
TY125-18X	18	–	5.34	1.25	0.095	1,000
TY125-40X	40	–	5.60	1.25	0.140	1,000
TY200-18X	18	–	7.75	2.00	0.095	1,000
TY200-40X	40	–	8.00	2.00	0.140	1,000
TY200-120X	120	–	8.63	2.00	0.299	500
TY300-40X	40	–	11.40	3.00	0.140	1,000
TY175-50X	50	–	7.30	1.75	0.184	1,000
TY300-50X	50	–	11.40	3.00	0.184	1,000
TY400-50X	50	–	14.30	4.00	0.184	1,000
TY400-120X	120	–	14.30	4.00	0.301	500

T&B Cable Ties®



- Extruded in 5 widths with 8 mounting hole diameters for use with a variety of standard and custom fasteners
- Extrusion grade Black Nylon
- Hole spacing allows for greater flexibility in meeting bundle diameter requirements
- Strapping provides a wide range of tensile strengths depending on mounting method (S2NY-096-0 tested at 50 lb. with BTNY-096)
- Non-Conductive, Non Corrosive; resistant to fuels, lubricants and most chemicals



Cat. No.	Width - W		Thickness - T		Hole - H		Spacing - E		Quantity				
	(in.)	(mm)	(in.)	(mm)	(in.)	(mm)	(in.)	(mm)					
Strapping													
S2NY-096-0-C	0.281	7.13	0.32	0.813	0.096	2.44	0.187	4.75	100 foot rolls				
S4NY-128-0-C					0.128	3.25	0.312	7.92					
S4NY-140-0-C					0.375	9.52	0.40	1.02		0.140	3.56	0.312	7.92
S4NY-167-0-C										0.167	4.24	0.312	7.92
S6NY-000-0-C	0.500	12.70	0.60	1.52	N/A	N/A	N/A	N/A					
S6NY-167-0-C					0.167	4.24	0.390	9.90					
S6NY-203-0-C					0.203	5.16	0.390	9.90					
S6NY-203X-0-C					0.203	5.16	0.281	7.14					
S7NY-265-0-C	0.625	15.87	0.70	1.78	0.265	6.73	0.500	12.70					
S7NY-265X-0-C					0.265	6.73	0.375	9.52					
S7NY-281-0-C					0.281	7.14	0.500	12.70					
S9NY-000-0-C	0.875	22.22	0.70	1.78	N/A	N/A	N/A	N/A					
S9NY-203-0-C					0.203	5.16	0.500	12.70					
S9NY-265-0-C					0.265	6.73	0.500	12.70					
S9NY-390-0-C					0.390	9.90	0.625	15.87					

Cat. No.	Strap-Tite Buckle	Mounting Tab	Mounting Cradle	Stud Buttons	Machine Screw
Strapping Accessories Reference					
S2NY-096-0-C	N/A	N/A	N/A	N/A	#2
S4NY-128-0-C				N/A	#5
S4NY-140-0-C				N/A	#6
S4NY-167-0-C				BTNY-167-0-D	#8
S6NY-000-0-C	B6NY-203-0-D	M6NY-265-0-D	N/A	N/A	N/A
S6NY-167-0-C				N/A	#8
S6NY-203-0-C				N/A	#10
S6NY-203X-0-C				N/A	#10
S7NY-265-0-C	B7NY-265-0-D	M7NY-328-0-D	N/A	BTNY-265-0-D	1/4
S7NY-265X-0-C				BTNY-265-0-D	1/4
S7NY-281-0-C	N/A	N/A	N/A	N/A	1/4
S9NY-203-0-C				N/A	#10
S9NY-265-0-C				BTNY-265-0-D	1/4
S9NY-390-0-C				N/A	3/8

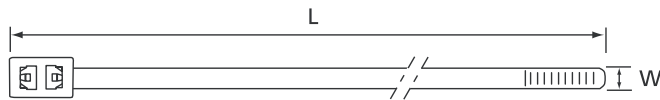
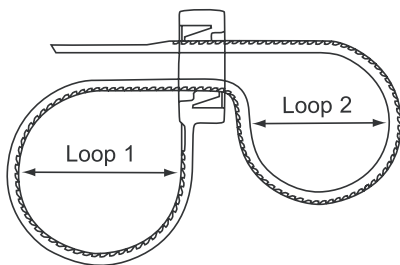
T&B Cable Ties®



Double Loop Cable Ties

One Tie, Two Loops

Double Loop Cable Ties allow the parallel routing of two bundles of cable with one single cable tie. The unique design loops itself twice through the head of the tie in separate latching pawls. Applications include appliance manufacturers, automotive, aerospace, data communications, and electrical equipment manufacturers.



Advantages

- Manufactured of natural colour nylon 6/6 material
- Temperature range of -40°C to 85°C (-76°F to 185°F)
- UL 94 V-2 flammability rating
- Halogen and silicone-free to meet your application needs
- The integrally formed pawl combines low insertion and high locking strength
- A rounded, low profile head makes for less snags
- Tails have improved two sided finger grip design that helps the operator grasp and pull ties snug
- Quick and easy pull through increases productivity, reduces operator fatigue

Cat. No.	Length		Width		Bundle Diameter Range		Tensile Strength (lb./N)	Installation Tooling for all sizes	Std. Pkg.
	(in.)	(mm)	(in.)	(mm)	Loop 1 (in./mm)	Loop 2 (in./mm)			
Double Loop Cable Ties									
TB-50RLDH	7.8	198.12	0.19	4.83	0.1 - 1.8 / 2.54 - 45.72	0.1 - 1.7 / 2.54 - 43.18	50/222.4	ERG50	1,000
TB-12-50RLDH	11.8	299.72			0.1 - 2.8 / 2.54 - 71.12	0.1 - 2.7 / 2.54 - 68.58			
TB-15-50RLDH	14.6	370.84			0.1 - 3.9 / 2.54 - 99.06	0.1 - 3.8 / 2.54 - 96.52			

T&B Cable Ties®



Low profile contoured head compared with the profile of the traditional T&B® Cable Tie.

Low-Profile Cable Ties

This fastener design from Thomas & Betts is ideal for use where precision bundling is required and clearance is a necessity. A unique saddle back design curves to form a snug fit around the bundle, and allows for easy pull-through in bulkheads and any other tight spaces. Our contoured head eliminates snagging and sharp edges are reduced by our safe-guard walls.

Features

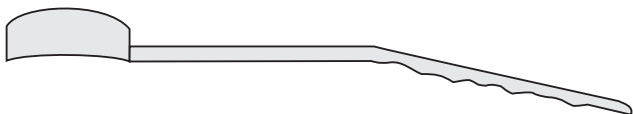
- Low-profile, contoured head reduces clearance required for the bundle and enhances the appearance of your harness
- The safe-guard wall eliminates exposure to sharp edges
- The saddle back fits snug against the contour of the wiring harness
- Sizes and colours available to accommodate varying requirements
- High-quality nylon strength

Cat. No.	Bundle Range Dia.		Tie Length		Strap Width		Strap Thick		Tensile Strength		Std. Pkg.	Bulk Pkg.
	(in.)	(mm)	(in.)	(mm)	(in.)	(mm)	(in.)	(mm)	lb.	kg		
Cable Ties Ordering Information												
SF100-18	0.125 - 1.00	3.17 - 25.4	4.65	118.11	0.95	2.41	0.043	1.09	18	8.16	100	1,000
SF150-18	0.125 - 1.50	3.17 - 38.1	6.45	163.83								
SF200-18	0.125 - 2.00	3.17 - 50.8	8.10	205.74								
SF175-50	0.187 - 1.75	4.74 - 44.4	7.70	195.58	0.187	4.74	0.48	1.21	50	22.68		
SF300-50	0.187 - 3.00	4.74 - 76.2	11.33	287.78			0.52	1.32				
SF400-50	0.187 - 4.00	4.74 - 101.6	14.53	369.06	0.300	7.62	0.75	1.90	120	54.43		
SF600-120	0.375 - 6.00	9.52 - 152.4	21.00	533.40								
ERG120	Application tool for 50 lb. to 120 lb. tensile strength											
ERG50	Application tool for 18 lb. to 50 lb. tensile strength											

Material: Natural Nylon 6/6 in accordance with ASTM D4066 PA111. Also available in black outdoor weatherable (suffix "-X").
 Dimensions: Designed according to military standards (MS3367) except for the head length, which is slightly larger than MIL spec.
 Packaging: Standard package is 100 pieces.

Colour	Suffix No.
How to Order Colour Cable Ties	
Black (outdoor)	X
Brown	1
Red	2
Orange	3
Yellow	4
Green	5
Blue	6
Purple	7
Grey	8
White	9

Packaged for handling convenience.
 Natural nylon is standard. For coloured cable ties in-line fasteners add the following suffix numbers to catalogue numbers.
 Example: **SF175-50-2** (Red)
 For Distributor Packs (100), add suffix "-100".
 Example: **SF175-50-100**
 (Consult your Regional Sales Office for ordering information)



T&B Cable Ties®

Ski-Badge Holder Cable Ties



Badge Holder

The ticket fastener that won't leave you out in the cold.

Thomas & Betts offers ski resorts a convenient, low-cost, quick, and safe alternative to the metal wire clip currently used to attach ski lift tickets to skiers' clothing.

T&B Cable Ties® offer these prominent advantages:

- Designed specifically for lift ticket attachment to prevent damage to skiers' clothing
- Incorporates a loop diameter restriction device that forms the proper sized 1-1/4 inch loop required to hold the lift ticket in place and lay flat on the skier
- Prevents the tie from being over-tightened and damaging the lift ticket
- May also serve to aid the skier in zipping their coat by extending the zipper length
- The Badge Holder is tamper resistant and smooth up to the restriction point to keep it from being shared or reused by other skiers
- The smooth body eliminates the notch sensitivity issue inherent to all-nylon cable ties
- The Badge Holder is designed with a flexible short round tail, safely eliminating sharp metal
- Affordable at just pennies per fastener!

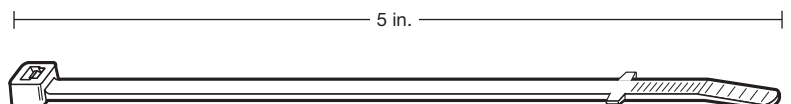
The Badge Holder comes in 9 different colours to match the resort's colour schemes and is made of high quality Nylon 6/6 material to withstand cold temperatures. It is 5 inches long and has a sturdy 30 lb. tensile strength rating. Badge Holders may also be heat stamped with additional identification, such as the resort's name or web site.

When the snow starts, Badge Holders will be ready to keep things snug, all the way down the mountain!

Cat. No.	Description	Qty.	UPC
Badge Holder Ordering Information			
SJ-5-30SKI-9-M	Ticket Fastener	1,000/bag	78621017017

Natural nylon colour. Please consult your Regional Sales Office for ordering and availability of colours and heat-stamping.

Dimensions: 5 in.
 Construction: Nylon 6/6
 Max. Tensile Strength: 30 lb.



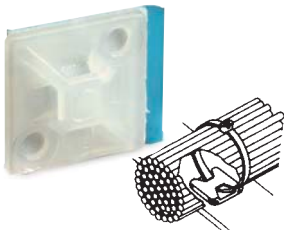
Cable Tie Mounting Bases

Choose from adhesive-backed, epoxy or screw mounting bases!

- Available in a variety of materials for both indoor and outdoor use
- One-piece molding — no lost parts
- Adhesive-backed with pressure-sensitive adhesive tape (where applicable)



Temperature Rating:
0°C to 66°C (32°F to 150°F)
*Synthetic Rubber Adhesive



Std. Pkg. Cat. No.	Bulk Pkg. Cat. No.	Mounting Method	Max. Tie Width Accom.	Length		Width		Material	Std. Pkg.	Bulk Pkg.
				(in.)	(mm)	(in.)	(mm)			
Two-Way Adhesive Mounting Bases										
TC5342A	TC342A	SRA* Adhesive	0.19	1.13	28.58	1.13	28.58	Nylon 6/6	100	1,000
-	TC342A-X							Weatherable Nylon		
-	TC342	TC2PA						Nylon 6/6		
-	TC342X							Weatherable Nylon		
-	TC342A-FR	SRA* Adhesive						Flame-Retardant Nylon		
-	TC342AH-TFR	Acrylic Adhesive						Black High-Temp Flame-Retardant Nylon		

Select the Four-way configuration you need!

- Eliminates errors in premounting the base with respect to its orientation to wire bundle direction
- Convenient way to mount wire bundles at cross-over points — two optional mounting holes included

Temperature Rating:
0°C to 66°C (32°F to 150°F)
Temperature Storage:
0°C to 48°C (32°F to 120°F)
*Synthetic Rubber Adhesive



Std. Pkg. Cat. No.	Bulk Pkg. Cat. No.	Mounting Method	Max. Tie Width Accom.	Length		Width		Material	Std. Pkg.	Bulk Pkg.					
				(in.)	(mm)	(in.)	(mm)								
4-Way Adhesive Mounting Base															
TC5345A	TC345A	SRA* Adhesive	0.19	1.13	28.58	1.13	28.58	Nylon 6/6	100	1,000					
-	TC345AFR							Flame-Retardant Nylon							
TC5345AX	TC345AX	Acrylic Adhesive						Weatherable Nylon							
TC5345AHTFR	TC345AHTFR							Black High-Temp Flame-Retardant Nylon							
-	TC345	TC2PA/Screws						Nylon 6/6							
4-Way Mini Base															
TC050X050A-C	TC050X050A	SRA* Adhesive	0.10	0.5	12.70	0.5	12.70	Nylon 6/6	100	1,000					
TC050X050AX-C	TC050X050AX							Weatherable Nylon							
TC5344A	TC344A							Screw Mount			0.14	0.75	19.05	0.75	19.05
TC5344AX	TC344AX	Weatherable Nylon													
TC5344	TC344	Nylon 6/6													
Large 4-Way Base**															
TC150X150L	TC150X150	Screw Mount	0.19	1.5	38.10	1.5	38.10	Nylon 6/6	50	500					
TC150X150A-L	TC150150A	SRA* Adhesive						Weatherable Nylon							
TC150X150AX-L	TC150X150AX							Nylon 6/6							
TC200X200-L	TC200X200	Screw Mount						0.30			2.0	50.80	2.0	50.80	Nylon 6/6
TC200X200A-L	TC200X200A	SRA* Adhesive													Weatherable Nylon
-	TC200X200AX														Screw Mount
-	TC368	Weatherable Nylon													
-	TC368A	SRA* Adhesive	Nylon 6/6												

* UR not applicable

Great versatility!

- Accommodates the entire line of standard cable ties
- 4-way base for cable ties up to .184" maximum width and a two-way base for ties up to .301" maximum width
- It may also be mounted with #8 size screw (2 holes)

Temperature Rating:
0°C to 66°C (32°F to 150°F)
*Synthetic Rubber Adhesive



Std. Pkg. Cat. No.	Bulk Pkg. Cat. No.	Mounting Method	Max. Tie Width Accom.	Length		Width		Material	Std. Pkg.	Bulk Pkg.
				(in.)	(mm)	(in.)	(mm)			
Two- and Four-Way Adhesive Mounting Base										
TC5347A	TC347A	SRA* Adhesive	0.30	1.13	28.58	1.13	28.58	Nylon 6/6	100	1,000
TC5347AX	-							Weatherable Nylon	-	
-	TC347	TC2PA Screws						Nylon 6/6		
-	TC347FR							Flame-Retardant		
-	TC347X							Weatherable Nylon		
-	TCZ347							Radiation Resistant Fluoropolymer		

Cable Tie Mounting Bases



Natural nylon colour.
Temperature Rating:
0°C to 66°C (32°F to 150°F).
*Synthetic Rubber Adhesive.

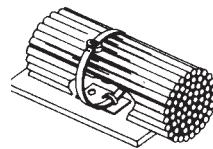
Great for securing cables!

- Provides a fast and convenient method of securing bundles
- Single-piece design offers reduced installation time and maximized inventory control
- Integral top cover incorporates a unique ratchet design that is fully adjustable and releasable
- Available in a pressure-sensitive adhesive or screw mount design

Std. Pkg. Cat. No.	Bulk Pkg. Cat. No.	Base Style	Maximum Height (in.)	Clamping Area				Std. Pkg.	Bulk Pkg.
				Min. (in.)	Min. (mm)	Max. (in.)	Max. (mm)		
One-Piece Mounting Clamp									
TC5349A-TB	TC349A-TB	SRA* Adhesive	0.57	0.18 x 0.24	4.57 x 6.10	0.35 x 0.24	0.89 x 6.10	100	1,000
TC5350A-TB	TC350A-TB		0.89	0.20 x 0.59	5.08 x 14.99	0.45 x 0.59	11.43 x 14.99		

Great for securing cables!

Temperature Rating: 0°C to 66°C (32°F to 150°F).
*650-41349 has two holes for mounting.



Cat. No.	Mounting Method	Max. Tie Width Accom.	Max. Tie Length		Width		Material	Pkg.
			(in.)	(mm)	(in.)	(mm)		
Aluminum Mounting Plates								
TC105	TC2PA/Screws	0.19	1.00	25.40	0.50	12.70	Aluminum	1,000
TC824-TB	TC2PA		1.38	34.93	0.38	9.65		
650-41349*	TC2PA/Screws							



Super strong adhesive!

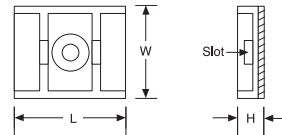
Cat. No.	Mounting Method	Pkg.
Mounting Base Adhesive		
TC2PA	Consists of one tube each, adhesive and activator	1

Cable Tie Mounting Bases



Accepts cable ties up to 50-lb. (222 N) tensile strength (miniature through standard)!

- Supplied on closed cell foam with synthetic rubber-based adhesive
- Use #6 self-tapping screw for added strength if desired

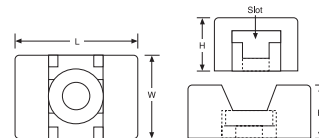


Std. Pkg. Cat. No.	Bulk Pkg. Cat. No.	Material	Mounting Method	Height		Length		Width		Slot Height		Slot Width		Std. Pkg.	Bulk Pkg.
				(in.)	(mm)	(in.)	(mm)	(in.)	(mm)	(in.)	(mm)	(in.)	(mm)		
Adhesive Mounting Cradle															
MCNY-1250-9-C	MCNY-1250-9-D	Natural Nylon 6/6	SRA* Adhesive	0.285	7.24	1.250	31.75	1.000	25.4	0.090	2.29	0.300	7.62	100	50



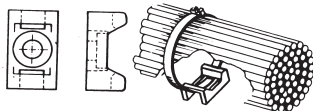
Fluoropolymer available for harsh environments!

- SMNY-001 accepts cable ties to 50 lbs. (222 N) tensile (miniature through standard)
- SMNY-002 accepts cable ties to 120 lbs. (533 N) tensile (miniature through heavy-duty)
- Use #4, #6, #8, or #10 machine screw (as referenced)



Std. Pkg. Cat. No.	Material	Mounting Method	Height		Length		Width		Slot Height		Slot Width		Std. Pkg.
			(in.)	(mm)	(in.)	(mm)	(in.)	(mm)	(in.)	(mm)	(in.)	(mm)	
Screw Mount													
SMNY-000-9-D	Natural Nylon 6/6	#4 Screw	0.27	6.86	0.57	14.48	0.34	8.64	0.07	1.78	0.12	3.10	500
SMNY-001-0-D	Heat-Stabilized Black Nylon	#6,#8 Screw	0.28	7.11	0.60	15.24	0.39	9.77	0.06	1.52	0.20	5.08	

SMNY series for use in temperatures ranging from -40°C to 105°C (-40°F to 221°F).



This mounting base provides a saddle for the wire run. Ty-Rap® tie is threaded under bundle and tied in usual manner.
NOTE: For additional materials, refer to Regional Sales Office.



Std. Pkg. Cat. No.	Bulk Pkg. Cat. No.	Mounting Method	Maximum Tie Width Accom. (in.)	Width		Length		Std. Pkg.	Bulk Pkg.
				(in.)	(mm)	(in.)	(mm)		
Saddle Support Base									
-	TC140	#4 Pan Head	0.091	0.344	8.74	0.563	14.30	-	500
TC5141	TC141*	#6 Pan Head	0.190	0.439	11.15	0.672	17.07	100	
TC5142	TC142	#10 Pan Head	0.301	0.563	14.30	0.922	23.42		

* Add suffix FR for flame-retardant material (TC141 only).
 Natural nylon colour.
 For use in temperatures ranging from -40°C to 85°C (-40°F to 185°F).

Cable Tie Mounting Bases

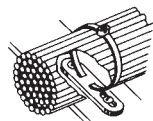
These nylon mounting strips for parallel installation of wire bundles can accommodate up to six closely spaced bundles.



Cat. No.	Mounting Method	Maximum Tie Width Accom. (in.)	Width		Length		Capacity (Bundles)	Mil. Std. Part No.	Std. Pkg.
			(in.)	(mm)	(in.)	(mm)			
Multiple-Bundle Mounting Strips									
TC1101	#6 Screws	0.190	0.50	12.70	1.75	44.45	1	MS3339-1	100
TC1102					3.00	76.20	2	MS3339-2	
TC1103					4.25	107.95	3	MS3339-3	
TC1104					5.50	139.70	4	MS3339-4	
TC1105					6.75	171.45	5	MS3339-5	
TC1112		0.301	0.63	15.88	9.60	243.84	6	MS3339-11	
TC1113					2.10	53.34	1	MS3339-6	
TC1114					3.60	91.44	2	MS3339-7	
TC1115					5.10	129.54	3	MS3339-8	
TC1116					6.60	167.64	4	MS3339-9	
TC1117					8.10	205.74	5	MS3339-10	

Natural nylon colour.
For use in temperatures ranging from -40°C to 85°C (-40°F to 185°F).

Provides a mounting range for bundles from 1/4 in. through 4 in. in diameter!



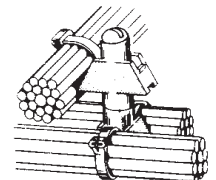
Std. Pkg. Cat. No.	Bulk Pkg. Cat. No.	Mounting Method	Maximum Tie Width Accom.		Length		Std. Pkg.	Bulk Pkg.		
			(in.)	(mm)	(in.)	(mm)				
Single-Bundle Mounting Base										
-	TC101	#10 Screws	0.190	4.83	0.500	12.7	2.00	50.80	-	1,000
TC503	TC103	1/4 in. Screws	0.301	7.65	0.625	15.88	3.08	78.23	100	500

The TC101 and TC103 nylon bases provide a mounting range for bundles from 1/4 in. through 4 in. in diameter. One mounting hole is slotted to permit adjustment of the bundle position up to the time of actual bundle installation. Natural nylon colour.
For use in temperatures ranging from -40°C to 85°C (-40°F to 185°F).

Permits vertical stacking!



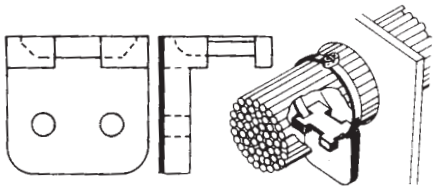
Cat. No.	Mounting Hole Size	Tie Width Accom.		Length		Max. Width		Std. Pkg.
		(in.)	(mm)	(in.)	(mm)	(in.)	(mm)	
Ty-Rap® Mounting Blocks								
TC115-TB	#10	0.190	4.83	1.00	25.40	0.47	11.91	1,000



Mounting blocks permit vertical stacking and can be used in any direction. Natural nylon colour.
For use in temperatures ranging from -40°C to 85°C (-40°F to 185°F).

Cable Tie Mounting Bases

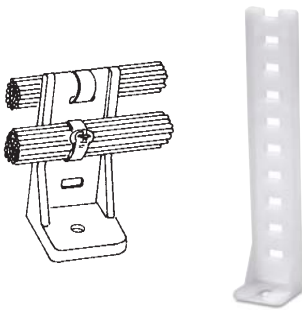
Meets military specs as a support in bulkheads and walls!



Cat. No.	Tie Width Accom.		Length		Max. Width		Std. Pkg.
	(in.)	(mm)	(in.)	(mm)	(in.)	(mm)	
Right-Angle Bundle Support							
TC109	0.190	4.83	0.44	11.13	0.56	14.30	200
TC106	0.30	7.62	1.00	25.40	1.00	25.40	1,000

This style meets Military Specification requirements as a support at holes in bulkheads and walls. (MS3341)
Natural nylon colour.
For use in temperatures ranging from -40°C to 85°C (-40°F to 185°F).

Mount bundles on either side!



Cat. No.	Max. Tie Width Accom.		Length		Width		Std. Pkg.
	(in.)	(mm)	(in.)	(mm)	(in.)	(mm)	
Ty-Rap® Stand-Off Brackets							
TC375	0.190	4.83	0.75	19.05	3.65	92.71	100
TC375X (Weatherable)			0.67	17.01	1.75	44.45	
TC376							

These brackets permit bundles to be mounted on either side. They also serve as means to raise bundles off the surface.
Natural nylon colour.
For use in temperatures ranging from -40°C to 85°C (-40°F to 185°F).
Weatherable nylon is black.

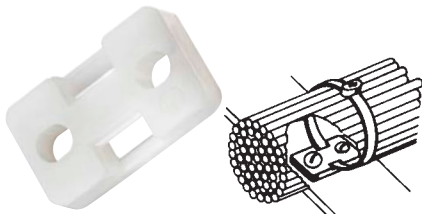
Weather-resistant and transparent!



Cat. No.	Wire Accommodation	Std. Pkg.
Aluminum Siding Clip		
TC201	1/8 in. Diameter Wire (2-pair station wire)	100

- Transparent — Colour and texture of siding shows through
- Material — Weather-resistant grade polycarbonate
- Designed to accommodate PITTSBURG INTERLOCK metal siding
- Accommodates wires both vertically and/or horizontally
- Provision for utilizing Ty-Rap® cable ties to secure large diameter bundles

Installs in-line with the wire bundle!



Cat. No.	Mounting Method	Width Accom.		Max. Tie Width		Length		Std. Pkg.
		(in.)	(mm)	(in.)	(mm)	(in.)	(mm)	
In-Line Mounting Base								
TC815-TB	#10 Screws	0.30	7.62	0.75	19.05	1.13	28.58	1,000

A standard 2-hole base that installs in-line with the wire bundle that conceals it.
Natural nylon colour.
For use in temperatures ranging from -40°C to 85°C (-40°F to 185°F).

Cable Tie Mounting Bases

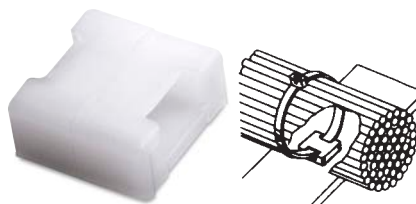
Ideal for high-density packaging!

- Simply slip Ty-Rap® cable tie under slot in fastened mount, and attach bundle



Std. Pkg. Cat. No.	Bulk Pkg. Cat. No.	Mounting Method	Maximum Tie Width Accom. (in.)	Width		Length		Std. Pkg.	Bulk Pkg.
				(in.)	(mm)	(in.)	(mm)		
Low-Profile Two-Way Miniature Mounting Bases									
TC502	TC102	#8 screw	0.19	0.50	12.70	0.75	19.05	100	1,000
-	TC104	#5 screw	0.09	0.32	8.03	0.41	10.31	-	
-	TC804-TB	#2 screw	0.09					-	
-	TC112-TB	#8 screw	0.19	0.38	9.53	0.75	19.05	-	
-	TC812-TB	#10 screw	0.19					-	
-	TC814-TB	#5 screw	0.19					-	

Threaded insert permits screw to come from outside of mounting surface.
 Natural nylon colour.
 For use in temperatures ranging from -40°C to 85°C (-40°F to 185°F).



Cat. No.	Mounting Method	Material	Max. Tie Width Accom.	Width		Length		Std. Pkg.
				(in.)	(mm)	(in.)	(mm)	
Miniature Base								
TC817-TB	TC2PA	Nylon 6/6	0.19	0.44	11.10	0.44	11.10	1,000

Natural nylon colour.
 For use in temperatures ranging from -40°C to 85°C (-40°F to 185°F).

Handles ties installed in either direction



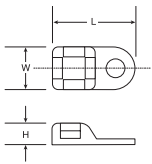
Std. Pkg. Cat. No.	Bulk Pkg. Cat. No.	Mounting Method	Maximum Tie Width Accom. (in.)	Width		Length		Std. Pkg.	Bulk Pkg.
				(in.)	(mm)	(in.)	(mm)		
Low-Profile Four-Way Mounting Base									
-	TC826-TB	#8 screw	0.19	0.50	12.70	1.00	25.40	-	1,000
TC5828	TC828-TB	#8 screw		0.39	9.91	0.88	22.23	100	

The TC826-TB mounting base can be used to tie bundles running parallel or perpendicular to length of base. The TC828-TB mounting plate also handles ties installed in either direction and is somewhat smaller than TC826. Natural nylon colour.
 For use in temperatures ranging from -40°C to 85°C (-40°F to 185°F).

Cable Tie Mounting Bases

Four-way screw mounts for cable ties up to 50-lb. (222 N) tensile strength!

- Mount with #6 or #8 screws
- Available in natural nylon 6/6

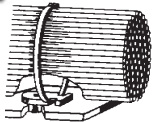


Cat. No.	H		L		W		Slot W		Mount SCR	Std. Pkg.
	(in.)	(mm)	(in.)	(mm)	(in.)	(mm)	(in.)	(mm)		
Four-Way Mount										
SMNY-220-9-D	0.23	5.84	0.95	25.13	0.50	12.70	0.22	5.59	#6, #8	500

Natural nylon colour.

For use in temperatures ranging from -40°C to 85°C (-40°F to 185°F).

Firmly locks into position when projecting pin is pushed into the mounting hole

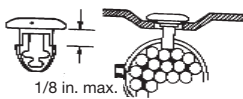


Cat. No.	Mounting Hole Size	Maximum Tie Width Accom. (in.)	Width		Length		Material	Std. Pkg.
			(in.)	(mm)	(in.)	(mm)		
Self-Riveting Base								
TC116-TB	0.146	0.190	0.5	12.7	0.75	19.05	Nylon 6/6 (Red)	1,000
TC116-0							Nylon 6/6 (Black)	
TC118-TB							Nylon 6/6 (Blue)	
TC120							Nylon 6/6 (Yellow)	

Slip tie under base to attach bundle.

For use in temperatures ranging from -40°C to 85°C (-40°F to 185°F).

Snap-in, premountable base for securing wire bundles in cabinets maintains the attractive external appearance of the equipment housing — TC121 Snap-Cap



Cat. No.	Mounting Hole Size	Maximum Tie Width Accom. (in.)	Width		Length		Material	Std. Pkg.
			(in.)	(mm)	(in.)	(mm)		
Snap-In Mounting Base Cap								
TC121-TB	0.250	0.190	0.445	11.30	0.415	10.54	Nylon 6/6	1,000
TCH121							Nylon 6/6 Heat Stabilized	
TCH121-0							Nylon 6/6 (Black) Heat Stabilized	

Natural nylon colour.

Nylon 6/6 for use in temperatures ranging from -40°C to 85°C (-40°F to 185°F).

Heat stabilized for use in temperatures ranging from -40°C to 105°C (-40°F to 221°F).

Cable Tie Mounting Bases

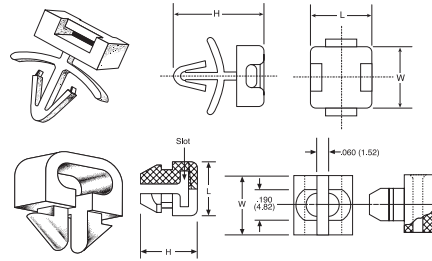
STRONG — up to 50-lb. tensile strength!

PMNY-185:

- Versatile push mount for cable ties to 50-lb. tensile strength
- For use in 0.187 in./0.192 in. mounting hole for panel thickness 0.030 in. to 0.080 in.

PMNY-245:

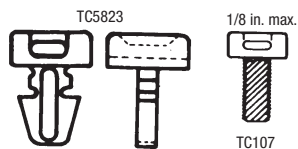
- Accepts cable ties to 50-lb. tensile (miniature through standard)
- For use in 0.250 in. mounting hole for maximum panel thickness of 0.062 in.



Natural nylon colour.

For use in temperatures ranging from -40°C to 85°C (-40°F to 185°F).

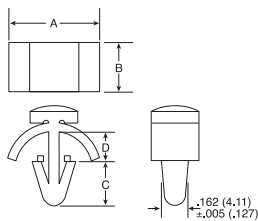
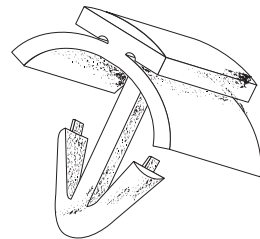
Cat. No.	Material	Height H		Length L		Width W		Slot Height		Slot Width		Std. Pkg.
		(in.)	(mm)	(in.)	(mm)	(in.)	(mm)	(in.)	(mm)	(in.)	(mm)	
Push Mounts												
PMNY-185-9-D	Nylon	0.64	16.26	0.43	10.92	0.43	10.92	0.07	1.65	0.07	1.65	500
PMNY-254-9-C		0.36	9.02	0.32	8.13	0.32	8.13	0.05	1.27	0.22	5.59	10
PMNY-245-9-D												500



Std. Pkg. Cat. No.	Bulk Pkg Cat. No.	Mounting Hole Size	Maximum Tie Width Accom. (in.)	Width		Length		Std. Pkg.	Bulk Pkg.
				(in.)	(mm)	(in.)	(mm)		
Push-In and Bolted Bases									
TC5823	TC823-TB	1/4 in.	0.19	0.44	11.13	0.63	15.88	100	1,000
-	TC107	#10-32 thd						-	

Natural nylon colour.

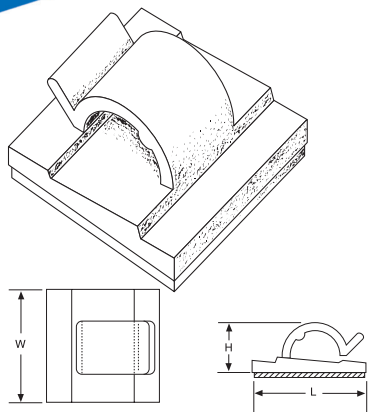
For use in temperatures ranging from -40°C to 85°C (-40°F to 185°F).



Cat. No.	Material	A		B		C		D		Std. Pkg.
		(in.)	(mm)	(in.)	(mm)	(in.)	(mm)	(in.)	(mm)	
Push-In and Bolted Bases										
MSNY-166-0-M	UV Black Nylon	0.49	12.45	0.31	7.87	0.28	7.11	0.18	4.57	1,000
MSNY-187-0-M		0.625	15.87	0.343	8.73	0.281	7.14	0.210	5.33	

- For panel thicknesses from 0.060 in. to 0.150 in. to hold separate pieces of material together
- For MSNY-166-0-M used with W4 or N4 Series Cable Clamps, allowable panel thickness is 0.030 in. to 0.050 in.
- For MSNY-187-0-M used with W6 or N6 Series Cable Clamps, allowable panel thickness is 0.030 in. to 0.050 in.

Cable Clamps and Clips



Versatile adhesive clips keep cable paths organized

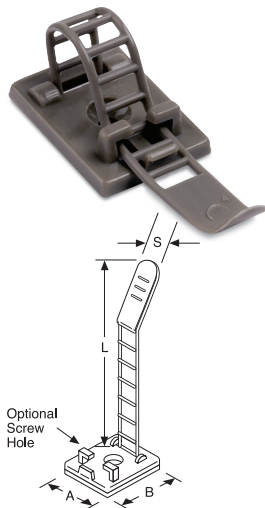
- Diverse cable clamps for bundle diameters from 0.160 in. to 0.620 in.
- Mounted on a rubber-based closed cell foam adhesive
- Flexible center tang for removal or addition of cables



Cat. No.	Material	Height H		Length L		Width W		Maximum Bundle		Mounting Method	Std. Pkg.
		(in.)	(mm)	(in.)	(mm)	(in.)	(mm)	(in.)	(mm)		
Round Adhesive Clips											
RANY-160-9-D	Nylon	0.250	6.35	0.630	16.0	0.580	14.73	0.160	4.06	Rubber-based adhesive	500
RANY-280-9-D		0.410	10.41	1.000	25.40	1.000	25.40	0.280	7.11		
RANY-530-9-D		0.620	15.75					0.530	13.46		
RANY-620-9-D		0.560	14.22	1.250	31.75	1.120	28.45	0.620	15.75		

Natural nylon colour.

Adhesive for use in temperatures ranging from 0°C to 66°C (32°F to 150°F).



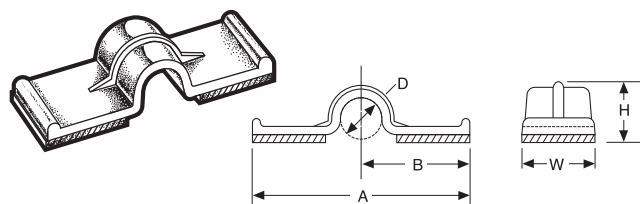
Release and refasten with ease — in three adjustable sizes!

- Three sizes for bundles from 0.118 in. to 0.984 in.
- Ladder-style fastener is easily released and refastened
- Supplied on a rubber-based closed cell foam adhesive
- Optional screw hole for #4 or #5 flat head screw



Cat. No.	Material	Height A		Length B		Width S		Maximum Bundle		Applied Wire Range		Screw Hole Diameter		Std. Pkg.
		(in.)	(mm)	(in.)	(mm)	(in.)	(mm)	(in.)	(mm)	(in.)	(mm)	(in.)	(mm)	
Adjustable Cable Clamps														
ULNY-013-8-C	Grey Nylon	0.709	18.00	0.984	24.99	0.314	7.98	2.340	59.44	0.118 - 0.500	3.0 - 12.7	0.110	2.79	100
ULNY-013-9-C	Natural Nylon													
ULNY-018-8-C	Grey Nylon	0.827	21.00	1.180	29.97	0.472	11.99	3.120	79.25	0.197 - 0.827	5.0 - 21.0			
ULNY-023-8-C		0.984	24.99	1.380	35.05	0.551	14.00	3.370	79.25	0.275 - 0.984	7.0 - 25.0	0.135	3.43	

Adhesive for use in temperatures ranging from 0°C to 66°C (32°F to 150°F).



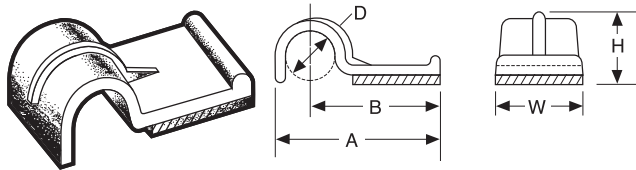
Choose from four sizes to accommodate bundles up to 1/2 in.

- Clips are provided on a rubber-based closed cell foam adhesive
- Stocked in natural nylon 6/6 colour. Contact your T&B Sales Representative for availability in special materials

Std. Pkg. Cat. No.	Bulk Pkg. Cat. No.	Material	D Diameter		A		B		H		W		Std. Pkg.	Bulk Pkg.
			(in.)	(mm)	(in.)	(mm)	(in.)	(mm)	(in.)	(mm)	(in.)	(mm)		
Press Clips														
PCNY-125-9-C	PCNY-125-9-D	Nylon	0.13	3.30	0.76	19.30	0.38	9.65	0.21	5.33	0.38	9.65	100	500
PCNY-250-9-C	PCNY-250-9-D		0.25	6.35	1.38	35.05	0.69	17.53	0.32	8.13	0.50	12.70		
PCNY-375-9-C	PCNY-375-9-D		0.38	9.65	1.47	37.34	0.74	18.80	0.44	11.176	0.63	16.00		
PCNY-500-9-C	PCNY-500-9-D		0.50	12.70	1.59	40.39	0.80	20.32	0.59	15.00	0.75	19.05		

For use in temperatures ranging from 0°C to 66°C (32°F to 150°F).

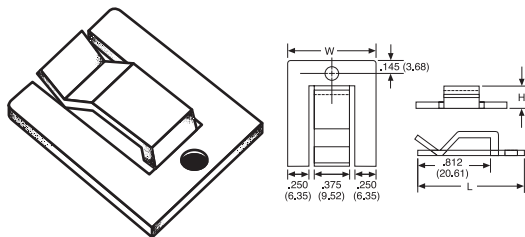
Cable Clamps and Clips



Eliminate the dangers of loose cables with these clips

- 4 sizes to accommodate bundles up to 1/2 in.
- Clips are provided on a rubber-based closed cell foam adhesive
- Stocked in natural nylon 6/6 colour. Contact your T&B Sales Representative for availability in special materials

Std. Pkg. Cat. No.	Bulk Pkg. Cat. No.	Material	D Diameter		A		B		H		W		Std. Pkg.	Bulk Pkg.
			(in.)	(mm)	(in.)	(mm)	(in.)	(mm)	(in.)	(mm)	(in.)	(mm)		
Half Press Clips														
HCNY-125-9-C	HCNY-125-9-M	Nylon	0.13	3.30	0.49	12.45	0.38	9.65	0.18	4.57	0.38	9.65	100	1,000
HCNY-250-9-C	HCNY-250-9-M		0.25	6.35	0.87	22.10	0.69	17.53	0.33	8.38	0.50	12.70		
HCNY-375-9-C	HCNY-375-9-M		0.38	9.65	0.98	25.90	0.75	19.05	0.42	10.67	0.63	16.00		
HCNY-500-9-C	HCNY-500-9-M		0.50	12.70	1.11	28.20	0.82	20.83	0.56	14.22	0.75	19.05		

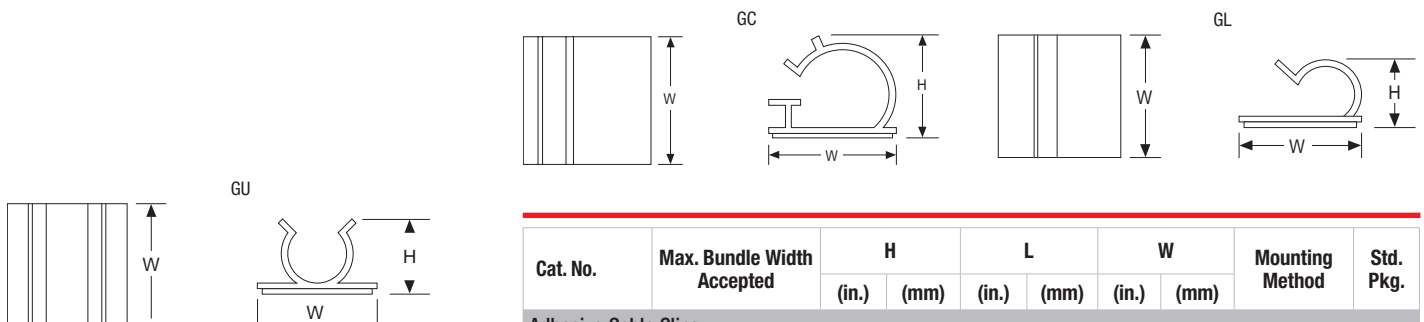


Flat design provides an attractive, yet discreet look

- Flat ribbon cable clamp with mounting hole for #8 screw
- Stocked in natural nylon 6/6 colour
- Flexible center tang enables easy removal and replacement of desired cable

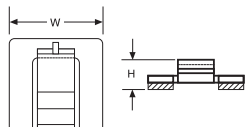
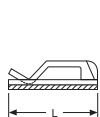
Cat. No.	Material	Height H		Length L		Width W		Mounting Method	Std. Pkg.
		(in.)	(mm)	(in.)	(mm)	(in.)	(mm)		
Flat Cable Screw Clip									
FSNY-812-9-C	Nylon	0.25	6.35	1.19	30.23	1.00	25.40	#8 Screw	100

For use in temperatures ranging from 0°C to 66°C (32°F to 150°F).



Cat. No.	Max. Bundle Width Accepted	H		L		W		Mounting Method	Std. Pkg.
		(in.)	(mm)	(in.)	(mm)	(in.)	(mm)		
Adhesive Cable Clips									
RANY-160-9-D	0.25	0.39	9.91	0.75	19.05	0.75	19.05	Adhesive	25
RANY-280-9-D	0.50	0.63	16.00	1.00	25.40	1.00	25.40		
RANY-530-9-D	0.25	0.76	19.30						
RANY-620-9-D	0.50			0.75	19.05	0.75	19.05		
RANY-620-9-D	0.25	0.47	11.94						
RANY-620-9-D	0.50								

Cable Clamps and Clips



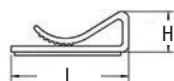
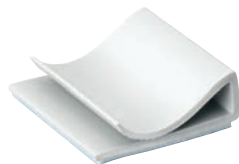
Low-profile clip for single or multiple layers of flat ribbon cable

- Supplied on a rubber-based closed cell foam adhesive
- Flexible center tongue for removal or addition of cables
- Stocked in natural nylon 6/6 colour

Std. Pkg. Cat. No.	Bulk Pkg. Cat. No.	Material	Height H		Length L		Width W		Mounting Method (in.)	Std. Pkg.	Bulk Pkg.
			(in.)	(mm)	(in.)	(mm)	(in.)	(mm)			
Flat Adhesive Clips											
FANY-812-9-C	FANY-812-9-D	Nylon	0.28	7.11	1.00	25.40	1.00	25.40	Adhesive	100	500

Natural nylon colour.

For use in temperatures ranging from 0°C to 66°C (32°F to 150°F).



Adhesive eliminates need for tools when mounting clips

- Low-profile clip for single or multiple layers of flat ribbon cable
- "Single-Cut" on a rubber-based closed cell foam adhesive
- Grey PVC
- UL Flammability 94 V-0 (clip)

Std. Pkg. Cat. No.	Bulk Pkg. Cat. No.	Material	Height H		Length L		Width W		Mounting Method (in.)	Std. Pkg.	Bulk Pkg.
			(in.)	(mm)	(in.)	(mm)	(in.)	(mm)			
Flat PVC Clips											
FRPV-1000-8-C	FRPV-1000-8-D	Grey PVC	0.42	10.67	1.06	26.92	1.00	25.40	Adhesive	100	500

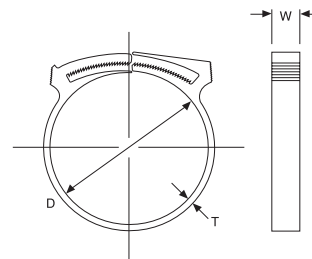
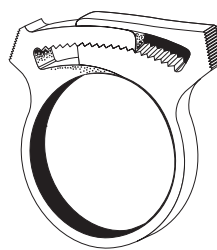
For use in temperatures ranging from 0°C to 66°C (32°F to 150°F).

Ideal for assembly applications

- 16 sizes for bundle diameters to 2.38 in.
- Removable and reusable. Twist by hand or with pliers to remove
- Stocked in weatherable Nylon. 100 pieces per package
- Request samples for testing to your application. Tested to 250 psi

Black.

For use in temperatures ranging from -40°C to 85°C (-40°F to 185°F).



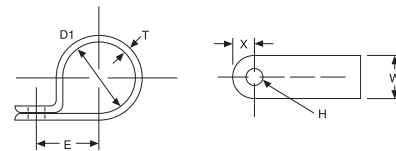
Cat. No.	D Nominal Diameter		D1 Closed Diameter		T Thickness		W Width		Std. Pkg.
	(in.)	(mm)	(in.)	(mm)	(in.)	(mm)	(in.)	(mm)	
Adjustable Cable Clamps									
GGNY-344-0-C	0.41	10.41	0.34	8.64	0.7	1.78	0.22	5.59	100
GGNY-406-0-C	0.47	11.94	0.41	10.41					
GGNY-750-0-C	0.88	22.35	0.75	19.05					
GGNY-875-0-C	1.00	25.40	0.88	22.35					

Cat. No.	D Nominal Diameter		D1 Closed Diameter		T Thickness		W Width		Std. Pkg.
	(in.)	(mm)	(in.)	(mm)	(in.)	(mm)	(in.)	(mm)	
Adjustable Cable Clamps									
GGNY-953-0-C	0.95	24.13	0.41	10.41	0.7	1.78	0.31	7.87	100
GGNY-1031-0-C	1.81	45.97	1.03	26.16					
GGNY-1250-0-C	1.44	36.58	1.25	31.75					
GGNY-1406-0-C	1.63	41.40	1.41	35.81			0.36	9.14	
GGNY-1687-0-C	1.91	48.51	1.34	34.04					
GGNY-1875-0-C	2.13	54.10	1.88	47.75					

Cable Clamps and Clips

Choose the diameter you need to clamp a specific-sized cable

- Fully radiused inside edges with size markings in inches and millimeters for easy identification
- Stocked in natural and black nylon 6/6
- Plain edge cable clamps are designed to perform to NAS-1397P
- 18 diameters and 2 widths with mounting holes for #8 and #10 screws
- Replace "-M" or "-D" with "-C" for 100 pack

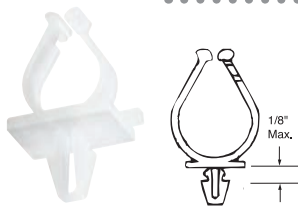


White Cat. No.	Black Cat. No.	H Mounting Hole Size	D1 Closed Dia.		E		T Thickness		W Width		X		Std. Pkg.
			(in.)	(mm)	(in.)	(mm)	(in.)	(mm)	(in.)	(mm)	(in.)	(mm)	
Half Press Clips													
N4NY-002-9-M	N4NY-002-0-M	#8	0.13	3.18	0.34	8.71	0.05	1.27	0.38	9.53			1,000
N4NY-003-9-M	N4NY-003-0-M		0.19	4.475	0.38	9.60							
N4NY-004-9-M	N4NY-004-0-M		0.25	6.35	0.42	10.70							
N4NY-005-9-M	N4NY-005-0-M		0.31	7.92	0.44	11.20							
N4NY-006-9-M	N4NY-006-0-M		0.38	9.53	0.46	11.79							
N4NY-007-9-M	N4NY-007-0-M		0.44	11.10	0.50	12.70							
N4NY-008-9-M	N4NY-008-0-M		0.50	12.70	0.53	13.46							
N4NY-002B-9-M	N4NY-002B-0-M		0.13	3.18	0.34	8.71							
N4NY-003B-9-M	N4NY-003B-0-M	0.19	4.475	0.38	9.60								
N4NY-004B-9-M	N4NY-004B-0-M	0.25	6.35	0.42	10.70								
N4NY-005B-9-M	N4NY-005B-0-M	0.31	7.92	0.44	11.20								
N4NY-006B-9-M	N4NY-006B-0-M	0.38	9.53	0.46	11.79								
N4NY-007B-9-M	N4NY-007B-0-M	0.44	11.10	0.50	12.70								
N4NY-008B-9-M	N4NY-008B-0-M	0.50	12.70	0.53	13.46								
N6NY-004C-9-M	N6NY-004C-0-M	#10	0.25	6.35	0.44	11.10	0.06	1.52	0.50	12.70	0.22	5.54	
N6NY-005C-9-M	N6NY-005C-0-M		0.31	7.92	0.47	12.04							
N6NY-006C-9-M	N6NY-006C-0-M		0.38	9.53	0.50	12.70							
N6NY-007C-9-M	N6NY-007C-0-M		0.44	11.10	0.53	13.54							
N6NY-008C-9-M	N6NY-008C-0-M		0.50	12.70	0.55	14.05							
N6NY-009-9-M	N6NY-009-0-M		0.56	14.27	0.60	15.32							
N6NY-010-9-M	N6NY-010-0-M		0.63	15.88	0.63	15.88							
N6NY-011-9-M	N6NY-011-0-M		0.69	17.45	0.67	16.89							
N6NY-012-9-M	N6NY-012-0-M		0.75	19.05	0.70	17.75							
N6NY-013-9-M	N6NY-013-0-M		0.81	20.62	0.77	19.43							
N6NY-014-9-M	N6NY-014-0-M		0.88	22.23	0.80	20.19							
N6NY-016-9-M	N6NY-016-0-M		1.00	25.40	0.83	21.00							
N6NY-018-9-D	N6NY-018-0-D	1.13	28.58	0.94	23.88								
N6NY-019-9-D	N6NY-019-0-D	1.19	30.15	0.96	24.46								
N6NY-020-9-D	N6NY-020-0-D	1.25	31.75	0.98	24.90								
N6NY-022-9-D	N6NY-022-0-D	1.38	34.93	1.05	26.54								
N6NY-024-9-D	N6NY-024-0-D	1.50	38.10	1.11	28.30								

Harnessing Accessories

Several mounting styles available

- Clamp acts as a retainer during wire routing, and as a permanent clamp when desired



Wires are held 1/2 in. above work surface for easy tying

- Consist of a spring-loaded clip and an elastic bundle support
- Wires are inserted by snapping them through spring-loaded clips



Cat. No.	Mounting Hole Size		Bundle Dia.		Max. Wire Width		Length		Std. Pkg.
	(in.)	(mm)	(in.)	(mm)	(in.)	(mm)	(in.)	(mm)	
Mechanical-Locking Routing Clamps									
TC88	0.25	6.35	0.50	12.7	0.25	6.35	0.891	22.63	100
TC95			1.00	25.4	0.50	12.7	1.590	40.39	

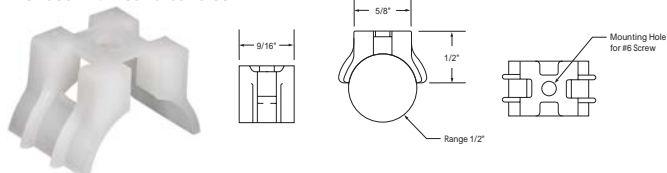
Natural nylon colour.

For use in temperatures ranging from -40°C to 85°C (-40°F to 185°F).

Cat. No.	Fastener	Max. Wire Bundle Dia.		Width		Height		Std. Pkg.
		(in.)	(mm)	(in.)	(mm)	(in.)	(mm)	
Wire-Bundle Retainers								
TC86	#6 screws	0.750	19.05	1.750	44.45	1.81	46.05	25
TC87		1.250	31.75	2.469	62.71	2.281	57.94	10

Saddle Mounting Plate

- For use with round bundles



Cat. No.	Max. Tie Width		Size		Bundle Hole Size	Std. Pkg.
	(in.)	(mm)	(in.)	(mm)		
Ty-Rap® Saddle Mounting Plate						
TC92	0.190	4.83	1/2-1-1/4	12.7-31.75	#6 screws	100

Natural nylon colour.

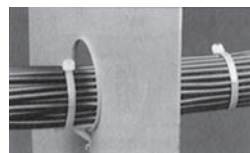
For use in temperatures ranging from -40°C to 85°C (-40°F to 185°F).

Hardened, nickel-plated, steel construction

- For wire harness board manufacturing



Cat. No.	A		B		C		Std. Pkg.
	(in.)	(mm)	(in.)	(mm)	(in.)	(mm)	
Harness-Board Nails							
HBP-1	1.00	25.40	0.625	15.88	0.72	1.83	100
HBP112	1.50	38.10			0.82	2.08	
HBP2	2.00	50.80			0.92	2.34	
HBP212	2.50	63.50			0.105	2.67	
HBP3	3.00	76.20			0.120	3.05	



Offers extra support for wires and cables

- TC131 bulkhead mounting base can be installed from either side
- Ties are installed through the clamp on either side of the bulkhead



Cat. No.	Mounting Method	Tie Width Accom.		Maximum Width		Length		Std. Pkg.
		(in.)	(mm)	(in.)	(mm)	(in.)	(mm)	
Bulkhead Bundle Support Feedthrough								
TC131	#6 screws	0.190	4.83	1.115	28.32	1.890	48.00	1,000

Natural nylon colour.

For use in temperatures ranging from -40°C to 85°C (-40°F to 185°F).

Mounting Bases for Heavy-Duty Applications

Designed for indoor or outdoor use and heavy-duty applications

- Quick and easy to install on existing metal framing channel
- Installs with a push and twist
- Smooth design protects cable insulation
- Takes range of cable diameters



When fastening wire bundles, cables or hoses to framing channels, you can cut costs considerably by using the Ty-Rap® cable clamp. It's made of smooth, weather-resistant nylon and designed to protect cable insulation and hoses from wear or damage, which can occur with metal clamps. The clamp may be used for both indoor or outdoor applications. It quickly installs in the framing channel with a simple push and twist. It requires no screws, nuts or tools. The clamp fits all 1-1/2 in. and 1-5/8 in. channels regardless of channel depth.



Cat. No.	Channel Size	Max. Tie Width Accom.		Std. Pkg.
	(in.)	(in.)	(mm)	
Framing Channel Clamp				
TC5363X	1-1/2 and 1-5/8	0.301	7.65	50

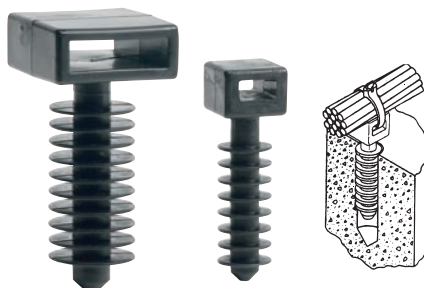
Made from high-impact weather-resistant black nylon.
For use in temperatures ranging from -40°C to 85°C (-40°F to 185°F).

Specially designed head is range-taking

- Quick, easy installation without cumbersome adhesives or epoxies
- Provides a quick, easy and dependable means of attaching cable and wires to masonry surfaces
- Installs by tapping it into a drilled hole
- It's immediately ready to accept a cable tie and wire bundle — no tedious surface preparation; no waiting for adhesives to set
- Replaces a variety of anchors, clamps, screws and adhesives
- Designed for both indoor and outdoor applications
- Only two sizes to stock — reduces inventory

Cat. No.	Hole Size in Masonry	Max. Tie Width Accom.		Std. Pkg.
	(in.)	(in.)	(mm)	
Framing Channel Clamp				
TC5358	1/4	0.190	4.83	100
TC5359	3/8	0.500	12.70	50

Made of a special impact and ultraviolet-resistant black nylon.
For use in temperatures ranging from -40°C to 85°C (-40°F to 185°F).



Weather-resistant!

- For use with lashing ties up to .500 in. width (i.e. TY5409)
- High impact



Cat. No.	Mounting Method	Tid Width Accom.		Maximum Width		Length		Std. Pkg.
		(in.)	(mm)	(in.)	(mm)	(in.)	(mm)	
Ty-Rap® Mounting Base for Lashing Tie								
TC5355	#8 screws	0.500	12.70	0.750	19.05	1.750	44.45	25
TC5356	#10 screws							
TC5357	1/4 in. screws							

Black nylon construction.
For use in temperatures ranging from -40°C to 85°C (-40°F to 185°F).

Mounting Bases for Heavy-Duty Applications



The Stud Mount Cable Fastening System includes a range of bases and the custom drill bit that mounts all sizes.



During installation, the custom Stud Mount drill bit application tool ejects itself from mounting base, ensuring proper torque and preventing cracking or breaking of the mount from being overtightened.



Virtually unlimited harnessing flexibility is provided in the unique 10-position harness design of the Stud Mount base.

A fast and simple harnessing method for neat, versatile wire management

Thomas & Betts Stud Mount Fastening System is a fast and simple harnessing method for neat, versatile, cord, cable, hose, and wire management. Using a custom drill bit for your 3/8 in. power drill, the Stud Mount base is quickly attached onto a threaded stud or bolt to the proper torque—every time. The innovative “X” design of the base reliably supports many types of cable or hose assemblies using a wide range of conventional T&B® cable ties. Designed with 10 separate lashing positions, the Stud Mount offers unlimited wire harnessing arrangements. T&B’s Stud Mount is available in four convenient stud bolt sizes.

- Great for harnessing wires, cables and hoses to truck and trailer chassis
- Fast, easy installation, using standard 3/8 in. power drill and application tool or simply hammer on
- Unlimited harnessing flexibility using conventional T&B® cable ties
- Custom drill bit quickly installs base to proper torque — won’t crack or break mounting base due to being overtightened
- Unique 4-way multi-directional design
- 10-position harness capability
- Available for 3/8 in., 1/2 in., 5/8 in., and 3/4 in. stud/bolt sizes
- Self-tapping thread design for reliable installation onto stud
- High pull-out strength of 500+ lb.

Cat. No.	Description	Stud Size (in.)	Material	Colour	Std. Pkg.
Stud Mount Fastening System					
XMNY-375-0-D	Mount Fastener	3/8	Nylon, UV Stabilized	Black	500
XMNY-500-0-D		1/2			
XMNY-625-0-D		5/8			
XMNY-750-0-D		3/4			
WTXM	Application Tool	—	Tool Steel	—	1

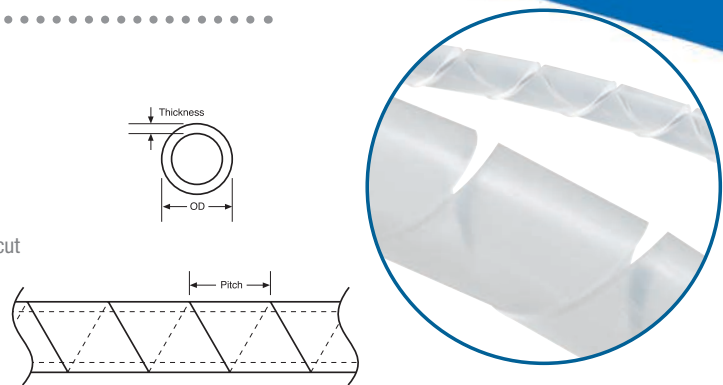
Material: Impact-resistant weatherable black nylon.
For use in temperatures ranging from -40°C to 85°C (-40°F to 185°F).

Wire Protection Products

Spiral Wrap

Install with gaps for greater flexibility or butted together for maximum abrasion resistance, insulation and rigidity!

- Packaged in 100 foot reels
- Protects bundles from 0.063 in. to 7 in. (1.6 mm to 177.8 mm) diameters
- Available in three material types
- Also commonly known as reverse cut, left-handed cut or counter-clockwise cut
- For use with cutting tool CC120B (see page C71)
- UL 94 HB Flammability Rating



Cat. No.	Material	Outside Diameter		Pitch		Nominal Wall Thickness		Minimum/Maximum Bundle Range				Reel Qty.
		(in.)	(mm)	(in.)	(mm)	(in.)	(mm)	(in.)	(mm)	(in.)	(mm)	
Spiral Wrap												
SRPE-125-9-C	Natural Polyethylene	0.125	3.18	0.210	5.33	0.35	0.89	0.06	1.60	0.50	12.70	1 (100 ft.)
SRPE-187-9-C		0.187	4.75	0.240	6.10	0.040	1.02	0.13	3.18	1.50	38.10	
SRPE-250-9-C		0.250	6.35	0.375	9.53	0.045	1.14	0.19	4.78	2.00	50.80	
SRPE-375-9-C		0.375	9.53	0.438	11.13	0.052	1.32	0.31	7.95	3.00	76.20	
SRPE-500-9-C		0.500	12.70	0.563	14.30	0.062	1.57	0.38	9.53	4.00	101.60	
SRPE-625-9-C		0.625	15.88	0.625	15.88	0.060	1.57	0.63	15.88	4.50	114.30	
SRPE-750-9-C		0.750	15.88	0.750	19.05	0.65	1.65	0.75	19.05	5.00	127.00	
SRPE-1000-9-C		1.000	25.40	1.110	28.19	0.70	17.78	1.00	25.40	7.00	177.80	
SRPE-125-0-C	Weatherable Black Polyethylene	0.125	3.18	0.210	5.33	0.35	0.89	0.06	1.60	0.50	12.70	
SRPE-187-0-C		0.187	4.75	0.240	6.10	0.040	1.02	0.13	3.18	1.50	38.10	
SRPE-250-0-C		0.250	6.35	0.375	9.53	0.045	1.14	0.19	4.78	2.00	50.80	
SRPE-375-0-C		0.375	9.53	0.438	11.13	0.052	1.32	0.31	7.95	3.00	76.20	
SRPE-500-0-C		0.500	12.70	0.563	14.30	0.062	1.57	0.38	9.53	4.00	101.60	
SRPE-625-0-C		0.625	15.88	0.625	15.88	0.060	1.57	0.63	15.88	4.50	114.30	
SRPE-750-0-C		0.750	15.88	0.750	19.05	0.065	1.65	0.75	19.05	5.00	127.00	
SRPE-1000-0-C		1.000	25.40	1.110	28.19	0.070	1.78	1.00	25.40	7.00	177.80	
SRNY-187-9-C	Natural Nylon 6/6	0.190	4.75	0.240	6.10	0.025	0.64	0.13	3.18	1.50	38.10	
SRNY-250-9-C		0.250	6.35	0.375	9.53	0.030	0.76	0.19	4.78	2.00	50.80	
SRNY-375-9-C		0.375	9.53	0.438	11.13	0.040	0.89	0.31	7.95	3.00	76.20	
SRNY-500-9-C		0.500	12.70	0.563	14.30	0.040	0.89	0.38	9.53	4.00	101.60	

Sold in 100-ft. rolls.

Polyethylene

Available in natural and weatherable black.

For general indoor use to 50°C (122°F). Material is flexible and easy to work with.

Weatherable Polyethylene

Available in black only.

Designed to resist ultraviolet light in outdoor applications.

Flame-Retardant Polyethylene

Available in white only.

Material is UL 94 V-0 rated. More economical and less rigid than nylon.

Nylon 6/6

Available in natural only.

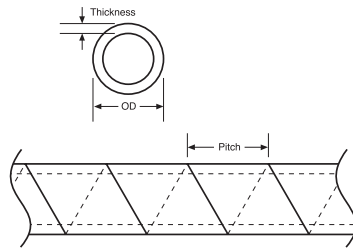
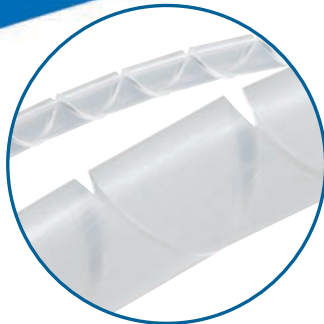
Offers highest abrasion resistance and rigidity. Self-extinguishing to UL 94 HB and a UL Recognized Component.

Fluoropolymer

Available in opaque colour.

Excellent resistance to harsh environments 170°C (338°F) max operating temperature.

Wire Protection Products



Spiral Wrap

Perfect for protection of bundles from 0.063 in. to 7 in. diameters

- Install with gaps for greater flexibility or butted together for maximum abrasion resistance, insulation, and rigidity
- Available in three materials
- Also known as right-hand cut or clockwise cut
- Use cutting tool CC120B (see page C71)

Cat. No.	Material	Outside Diameter		Pitch		Nominal Wall Thickness		Minimum/Maximum Bundle Range				UL Flammability	Reel Qty.		
		(in.)	(mm)	(in.)	(mm)	(in.)	(mm)	(in.)	(mm)	(in.)	(mm)				
Forward Cut Spiral Wrap															
SRPE-125F-9-C	Natural Polyethylene	0.19	4.75	0.24	6.10	0.04	1.02	0.06	1.60	0.50	12.70	94 HB	1 (100 ft.)		
SRPE-187F-9-C		0.19	4.75	0.24	6.10	0.04	1.02	0.13	3.18	1.50	38.10				
SRPE-250F-9-C		0.25	6.35	0.38	9.53	0.05	1.14	0.19	4.78	2.00	50.80				
SRPE-375F-9-C		0.38	9.53	0.44	11.13	0.05	1.32	0.31	7.95	3.00	76.20				
SRPE-500F-9-C		0.50	12.70	0.56	14.30	0.06	1.57	0.38	9.53	4.00	101.60				
SRPE-625F-9-C		0.63	15.88	0.63	15.88	0.06	1.57	0.63	15.88	4.50	114.30				
SRPE-750F-9-C		0.75	19.05	0.75	19.05	0.07	1.65	0.75	19.05	5.00	127.00				
SRPE-1000F-9-C		1.00	25.40	1.11	28.19	0.07	1.78	1.00	25.40	7.00	177.80				
SRPE-125F-0-C	Weatherable Black Polyethylene	0.19	4.75	0.24	6.10	0.04	1.02	0.06	1.60	0.50	12.70				
SRPE-187F-0-C		0.19	4.75	0.24	6.10	0.04	1.02	0.13	3.18	1.50	38.10				
SRPE-250F-0-C		0.25	6.35	0.38	9.53	0.05	1.14	0.19	4.78	2.00	50.80				
SRPE-375F-0-C		0.38	9.53	0.44	11.13	0.05	1.32	0.31	7.95	3.00	76.20				
SRPE-500F-0-C		0.50	12.70	0.56	14.30	0.06	1.57	0.38	9.53	4.00	101.60				
SRPE-625F-0-C		0.63	15.88	0.63	15.88	0.06	1.57	0.63	15.88	4.50	114.30				
SRPE-750F-0-C		0.63	15.88	0.75	19.05	0.07	1.65	0.75	19.05	5.00	127.00				
SRPE-1000F-0-C		1.00	25.40	1.11	28.19	0.07	1.78	1.00	25.40	7.00	177.80				
SRFR-125F-WH-C	White Flame-Retardant Polyethylene	0.19	4.75	0.24	6.10	0.04	1.02	0.13	3.18	1.50	38.10	94 HB			
SRFR-187F-WH-C		0.19	4.75	0.24	6.10	0.04	1.02	0.19	4.78	2.00	50.80				
SRFR-250F-WH-C		0.25	6.35	0.38	9.53	0.05	1.14	0.31	7.95	3.00	76.20				
SRFR-375F-WH-C		0.38	9.53	0.44	11.13	0.05	1.32	0.38	9.53	4.00	101.60				
SRFR-500F-WH-C		0.50	12.70	0.56	14.30	0.06	1.57	0.19	2.00	2.00	50.80				
SRTL-250F-9-C	Fluoropolymer	0.25	6.35	0.38	9.53	0.05	1.32	0.31	3.00	3.00	76.20				
SRTL-500F-9-C		0.50	12.70	0.56	14.30	0.06	1.57	0.38	4.00	4.00	101.60				

Polyethylene

Available in natural and weatherable black.

For general indoor use to 50°C (122°F). Material is flexible and easy to work with.

Weatherable Polyethylene

Available in black only. Designed to resist ultraviolet light in outdoor applications.

Flame-Retardant Polyethylene

Available in white only. Material is UL 94 V-0 rated. More economical and less rigid than nylon.

Nylon 6/6

Available in natural only.

Offers highest abrasion resistance and rigidity. Self-extinguishing to UL 94 HB and a UL Recognized Component.

Fluoropolymer

Available in opaque colour.

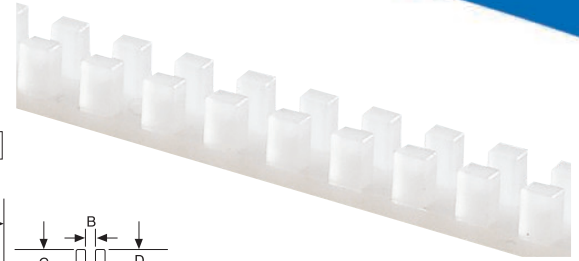
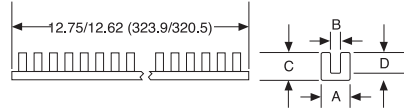
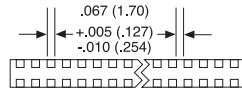
Excellent resistance to harsh environments 170°C (338°F) max operating temperature.

Wire Protection Products

Molded Grommeting

Suitable for round hole or odd-shape applications!

- Meets MS21266
- Available in three materials for panel thicknesses from 0.015 in. to 0.192 in.
- Grommet is used to protect panel edges and knockouts where the chafing of passing wires is a concern
- Also available in fluoropolymer material for harsh environments
- Strip length – 12-3/4 in.



Std. Cat. No.	Bulk Cat. No.	Material	A		B		C		D		For Panel Thickness		Military Standard Numbers	Std. Pkg.	Bulk Pkg.
			(in.)	(mm)	(in.)	(mm)	(in.)	(mm)	(in.)	(mm)	(in.)	(mm)			
Molded Grommeting															
GSNY-052-9-C	–	Natural Nylon 6/6	0.15	3.81	0.06	1.42	0.16	3.94	0.10	2.54	0.02-0.052	0.38-1.32	MS-21266-1N	100	–
GSNY-085-9-C	–		0.18	4.45	0.09	2.29					0.05-0.085	1.35-2.16	MS-21266-2N		
GSNY-128-9-C	–		0.22	5.59	0.13	3.33	0.09-0.128	2.18-3.25			MS-21266-3N				
GSNY-192-9-C	–		0.36	8.26	0.20	4.95	0.19-0.192	3.25-4.88			MS-21266-4N				
GSFR-052-WH-C	–	Flame-Retardant White	0.15	3.81	0.06	1.42	0.23	5.84			0.02-0.052	0.38-1.32	–	–	500
–	GSFR-052-WH-D		0.15	3.81	0.06	1.42					0.02-0.052	0.38-1.32			
GSFR-085-WH-C	–		0.18	4.45	0.09	2.29					0.05-0.085	1.35-2.16			

High-carbon, Teflon® coated steel blade!

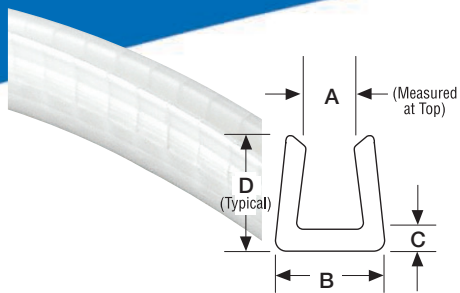
Use our CC120B cutting tool for all your spiral wrap, plastic pipe and PVC conduit needs up to 1-1/4 IN. I.D.

- Contoured handle resists tube crushing
- Produces no “sawdust” — no need to debur
- Lightweight, low-profile and no exposed blade when stored

Cat. No.	Description
CC120B	Cutting Tool



Wire Protection Products



Extruded Grommeting

Line panel edges and knockouts!

- Used to line panel edges and knockouts where the chafing of passing wires is a concern
- Available in 8 stock sizes in 100-ft. lengths for panels from 0.040 in. (1.02 mm) to 0.250 in. (6.35 mm) thick
- A variety of stocked materials to cover a wide range of applications
- Solid Wall Polyethylene is ideal for protection of glass, sheet metal, wood panels, or other sheet-form materials
- This product is not UV rated

Cat. No.	Material	A Max. Panel Thickness		C Grommeting Thickness		D Grommeting Height		B Grommeting Width		UL Flammability	Reel Qty.		
		(in.)	(mm)	(in.)	(mm)	(in.)	(mm)	(in.)	(mm)				
Extruded Grommeting													
GRNY-040-9-C	Natural Nylon	0.04	1.02	0.04	1.02	0.19	4.83	0.13	3.18	94 V-2	1 (100 ft.)		
GRNY-052-9-C		0.05	1.32										
GRNY-062-9-C		0.06	1.57	0.05	1.32	0.20	5.08	0.17	4.32				
GRNY-085-9-C		0.09	2.16										
GRNY-100-9-C		0.10	2.54			0.22	5.89	0.21	5.33				
GRNY-125-9-C		0.13	3.18										
GRNY-187-9-C		0.19	4.75			0.27	6.86	0.28	6.99				
GRNY-250-9-C		0.25	6.35										
GRNY-040-0-C	Black Nylon	0.04	1.02			0.04	1.02	0.19	4.83			0.13	3.18
GRNY-052-0-C		0.05	1.32										
GRNY-062-0-C		0.06	1.57	0.05	1.32	0.20	5.08	0.17	4.32				
GRNY-085-0-C		0.09	2.16										
GRNY-100-0-C		0.10	2.54			0.22	5.89	0.21	5.33				
GRNY-125-0-C		0.13	3.18										
GRNY-187-0-C		0.19	4.75			0.27	6.86	0.28	6.99				
GRNY-250-0-C		0.25	6.35										
GRPE-040-9-C	Natural Polyethylene	0.04	1.02			0.04	1.02	0.19	4.83	0.13	3.18		
GRPE-052-9-C		0.05	1.32										
GRPE-062-9-C		0.06	1.57	0.05	1.32	0.20	5.08	0.17	4.32				
GRPE-085-9-C		0.09	2.16										
GRPE-100-9-C		0.10	2.54			0.22	5.89	0.21	5.33				
GRPE-125-9-C		0.13	3.18										
GRPE-187-9-C		0.19	4.75			0.27	6.86	0.28	6.99				
GRPE-250-9-C		0.25	6.35										
GRUPE-040-9-C	Solid Wall Polyethylene	0.04	1.02			0.04	1.02	0.19	4.83	0.13	3.18		
GRUPE-052-9-C		0.05	1.32										
GRUPE-062-9-C		0.06	1.57	0.05	1.32	0.20	5.08	0.17	4.32				
GRUPE-085-9-C		0.09	2.16										
GRUPE-100-9-C		0.10	2.54			0.22	5.89	0.21	5.33				
GRUPE-125-9-C		0.13	3.18										
GRUPE-187-9-C		0.19	4.75			0.27	6.86	0.28	6.99				
GRUPE-250-9-C		0.25	6.35										
GRFR-040-WH-C	Flame-Retardant White Polyethylene	0.04	1.02			0.04	1.02	0.19	4.83	0.13	3.18		
GRFR-052-WH-C		0.05	1.32										
GRFR-062-WH-C		0.06	1.57	0.05	1.32	0.20	5.08	0.17	4.32				
GRFR-085-WH-C		0.09	2.16										
GRFR-100-WH-C		0.10	2.54			0.22	5.89	0.21	5.33				
GRFR-125-WH-C		0.13	3.18										
GRFR-187-WH-C		0.19	4.75			0.27	6.86	0.28	6.99				
GRFR-250-WH-C		0.25	6.35										

Wire Protection Products

Braided Sleeving

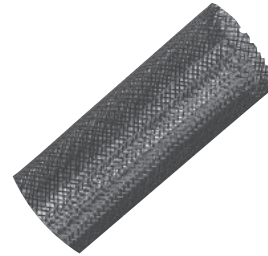
Available in handy mini spools or bulk reels!

Thomas & Betts braided wire protection sleeving is used to bundle and protect wires and cables from abrasion and excessive wear. Its flexible, lightweight, open weave construction installs easily over a variety of bundle diameters and shapes. The sleeving is resistant to chemicals, fungus, fuels, UV sunlight, and has an indefinite shelf life. It's easily cut with a hot knife, which seals the end, preventing fraying. Ends can be secured using Ty-Rap® cable ties.

Available in:

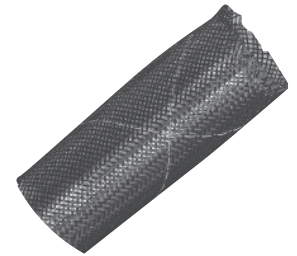
- Handy mini spools or bulk reels
- Eight sizes from 1/8 in. (3.18 mm) to 2-1/2 in. (63.5 mm) nominal I.D. size
- Solid or wraparound hook and loop braided expandable wire sleeving
- Meets UL94V-1
- Meets Federal Motor Vehicle Standard No. FMV SS 302

Types of Materials



Polyethylene Terephthalate (P.E.T.)

A black 0.010 in. (0.25mm) polyester monofilament material designed for indoor and outdoor applications. It's rated for continuous operating temp. -75°C to 125°C (-103°F to 257°F).



F – Flame Retardant Polyethylene Terephthalate (P.E.T.)

A 0.010 in. (0.25 mm) self-extinguishing polyester monofilament material that can be used indoors and outdoors. It's provided in black with white tracer for identification, and is rated for continuous operating temp. -75°C to 125°C (-103°F to 257°F). Meets UL 94V-1 Flammability Rating.

Catalogue Number System



Cat. No.	Nominal I.D.		Colour	Nominal Diameter Range		Reel Size	Std. Pkg.
	(in.)	(mm)		(in.)	(mm)		
Braided Expandable Wire Protection Sleeving							
S250PT-0	0.250	6.35	Black	0.125 to 0.375	3.18 to 9.53	M = 1000 ft. D = 500 ft. K = 250 ft. T = 200 ft. C = 100 ft. L = 50 ft.	1
S375PC-0	0.375	9.53		0.187 to 0.625	4.75 to 15.88		1

S = Braided Expandable Wire Sleeving

Materials

- P** = P.E.T. (Polyethylene Terephthalate)
- F** = Flame-retardant P.E.T.
- PW** = P.E.T. hook & loop wraparound sleeving
- FW** = Flame-retardant P.E.T. hook & loop wraparound sleeving

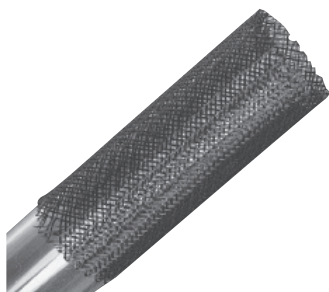
Nominal I.D. Equivalents

- 0.125** = 1/8 in.
- 0.250** = 1/4 in.
- 0.375** = 3/8 in.
- 0.500** = 1/2 in.
- 0.750** = 3/4 in.
- 1.250** = 1-1/4 in.
- 1.500** = 1-1/2 in.
- 1.750** = 1-3/4 in.
- 2.000** = 2 in.
- 2.500** = 2-1/2 in.

Wire Protection Products

Types of Materials

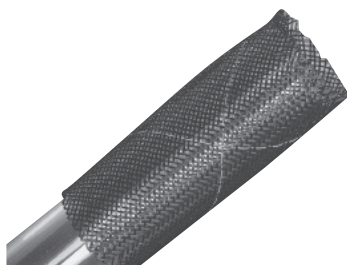
Braided Sleeving



Cat. No.	Nominal I.D.		Colour	Nominal Diameter Range		Spool Quantity	Std. Pkg.
	(in.)	(mm)		(in.)	(mm)		
P.E.T. Braided Expandable Wire Sleeving — Mini Spool							
S250PT-0	0.25	6.35	Black	0.13 to 0.38	3.18 to 9.53	200 ft. / 60.96 m	1
S375PC-0	0.38	9.53		0.19 to 0.63	4.75 to 15.88	125 ft. / 38.10 m	
S500PC-0	0.50	12.70		0.25 to 0.75	6.35 to 19.05	100 ft. / 30.48 m	
S750PC-0	0.75	19.05		0.50 to 1.25	12.70 to 31.75		
S1250PL-0	1.25	31.75		0.75 to 1.75	19.05 to 44.45	50 ft. / 15.24 m	

NOTE: Order by spool, not per foot.

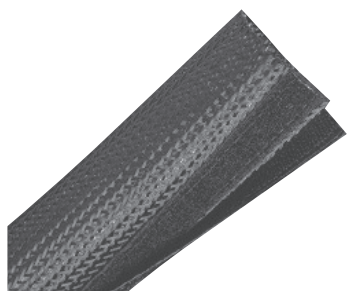
Safety first!



Cat. No.	Nominal I.D.		Colour	Nominal Diameter Range		Spool Quantity	Std. Pkg.
	(in.)	(mm)		(in.)	(mm)		
Flame Retardant Braided Expandable Wire Sleeving — Mini Spool							
S250FT-0	0.25	6.35	Black with White Tracer	0.13 to 0.38	3.18 to 9.53	200 ft. / 60.96 m	1
S500FC-0	0.50	12.70		0.25 to 0.75	6.35 to 19.05	100 ft. / 30.48 m	
S750FC-0	0.75	19.05		0.50 to 1.25	12.70 to 31.75		
S1250FL-0	1.25	31.75		0.75 to 1.75	19.05 to 44.45	50 ft. / 15.24 m	

NOTE: Order by spool, not per foot.

Enables for easy wrapping of existing wire harnesses and cables!



Cat. No.	Nominal I.D.		Colour	Nominal Diameter Range		Spool Quantity	Std. Pkg.
	(in.)	(mm)		(in.)	(mm)		
P.E.T. Hook and Loop, Wraparound Sleeving — Mini Spool							
S500PWL-0	0.50	12.70	Black	0.25 to 0.75	6.35 to 19.05	50 ft. / 15.24 m	1
S750PWL-0	0.75	19.05		0.50 to 1.25	12.70 to 31.75		
S1250PWL-0	1.25	31.75		0.75 to 1.75	19.05 to 44.45		
S2000PWL-0	2.00	50.80		1.50 to 3.50	38.10 to 88.90		

NOTE: Order by spool, not per foot.

Convenient for rework without disrupting existing connection!



- No tools required to close the sleeving
- Hook and loop material is made of 100% nylon



Cat. No.	Nominal I.D.		Colour	Nominal Diameter Range		Spool Quantity	Std. Pkg.
	(in.)	(mm)		(in.)	(mm)		
Flame Retardant Hook and Loop, Wraparound Sleeving — Mini Spool							
S500FWL-0	0.50	12.70	Black with White Tracer	0.25 to 0.75	6.35 to 19.05	50 ft. / 15.24 m	1
S750FWL-0	0.75	19.05		0.50 to 1.25	12.70 to 31.75		
S1250FWL-0	1.25	31.75		0.75 to 1.75	19.05 to 44.45		
S2000FWL-0	2.00	50.80		1.50 to 3.50	38.10 to 88.90		

NOTE: Order by spool, not per foot.

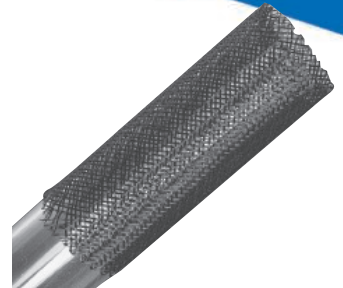
Wire Protection Products

Buy in bulk and save! **Braided Sleeving**



Cat. No.	Nominal I.D.		Colour	Nominal Diameter Range		Reel Quantity	Std. Pkg.
	(in.)	(mm)		(in.)	(mm)		
P.E.T. Braided Expandable Wire Sleeving — Bulk Reel							
S125PM-0	0.125	3.18	Black	0.09 to 0.250	2.39 to 6.35	1,000 ft. / 304.80 m	1
S250PM-0	0.25	6.35		0.125 to 0.375	3.18 to 9.53		
S375PD-0	0.38	9.53		0.19 to 0.63	4.75 to 15.88	500 ft. / 152.40 m	
S500PD-0	0.50	12.70		0.25 to 0.75	6.35 to 19.05		
S750PK-0	0.75	19.05		0.50 to 1.25	12.70 to 31.75	250 ft. / 76.20 m	
S1250PK-0	1.25	31.75		0.75 to 1.75	19.05 to 44.45		
S1500PT-0	1.50	38.10		1.00 to 2.50	25.40 to 63.50	200 ft. / 60.96 m	
S1750PT-0	1.75	44.45		0.125 to 0.375	31.75 to 59.85		
S2000PT-0	2.00	50.80		1.50 to 3.50	38.10 to 88.90		
S2500PT-0	2.50	63.50		1.75 to 4.50	44.45 to 114.30		

NOTE: Order by spool, not per foot.



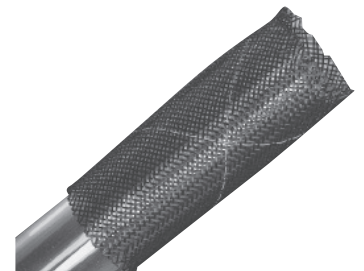
Choose from a variety of reel sizes!



Cat. No.	Nominal I.D.		Colour	Nominal Diameter Range		Reel Quantity	Std. Pkg.
	(in.)	(mm)		(in.)	(mm)		
Flame Retardant Braided Expandable Wire Sleeving — Bulk Reel							
S125FM-0	0.125	3.18	Black with White Tracer	0.09 to 0.250	2.39 to 6.35	1,000 ft. / 304.80 m	1
S250FM-0	0.25	6.35		0.125 to 0.375	3.18 to 9.53		
S375FD-0	0.38	9.53		0.19 to 0.63	4.75 to 15.88	500 ft. / 152.40 m	
S500FD-0	0.50	12.70		0.25 to 0.75	6.35 to 19.05		
S750FK-0	0.75	19.05		0.50 to 1.25	12.70 to 31.75	250 ft. / 76.20 m	
S750FK-9	0.75	19.05	White with Black Tracer	0.50 to 1.25	12.70 to 31.75		
S1250FK-0	1.25	31.75	Black with White Tracer	0.75 to 1.75	19.05 to 44.45	200 ft. / 60.96 m	
S1750FT-0	1.75	44.45		0.125 to 0.375	31.75 to 59.85		
S1750FT-9	1.75	44.45	White with Black Tracer	0.125 to 0.375	31.75 to 59.85		
S2000FT-0	2.00	50.80	Black with White Tracer	1.50 to 3.50	38.10 to 88.90		
S2500FT-0	2.50	63.50		1.75 to 4.50	44.45 to 114.30		

NOTE: Order by spool, not per foot.

For other colours, lengths, sizes and materials, please Contact your Regional Sales Office.



The right tool for the job!



Cat. No.	Description	Std. Pkg.
Sleeving End Cutter/Sealer Tools		
WTBM	Benchmark End Cutter/Sealer Tool, 110V AC	1

It's recommended that the sleeving be cut with a hot knife for a straight cut and to seal the ends, which prevents fraying.





Cable Tie Installation Tools

The most comfortable and efficient hand tool available for installing cable ties!

Thomas & Betts set out to develop a high performance and very reliable hand-operated cable tie installation tool. It's ergonomic with more features than any competing tool on the market. This new and improved Ty-Rap® Cable Tie Installation Tool is the result, and it fits the bill in every aspect. Our engineers carefully considered user comfort and designed this rugged yet lightweight, well-balanced tool to reduce stress, fatigue and the risk of carpal tunnel syndrome and other cumulative trauma disorders to the hand and wrist. They didn't stop with ergonomics, however. This new tool offers a flush cable tie tail-to-head trim, a longer handle stroke requiring less handle force, higher tension capabilities and much, much more!

Designed for Efficiency

- Wide cable-tie insertion gap makes it easier to insert tie into tool
- Tension adjustment wheel on nose offers easy access and quick setting — about five times faster than competing tools!
- Tension-locking mechanism maintains constant tension setting, even when tool is frequently put down and picked up again
- Flush tail-to-head cut-off eliminates sharp cable tie ends that can cut or scratch installers, wires and nearby devices
- Longest stroke length available on the market — a full 1 in. — means fewer handle-tensioning cycles to save time and lower installation costs

Designed for Comfort

- 360° rotating nose offers maximum flexibility in any position, especially in tight spaces — no twisting of tool required!
- Adjustable grip span adapts to fit large or small hands
- Anti-recoil cut-off mechanism reduces shock and vibration to hand and wrist
- High-low handle travel feature offers lowest handle force with highest tension in any hand-operated cable tie installation tool on the market
- Handles constructed from rugged, lightweight, high-impact polymer in a balanced design with soft, over-molded, round-edged grips for added user comfort

NEW!

Specifications

- Dimensions: 7 in. (177 mm) L x 5 in. (127 mm) H x 1-5/8 in. (41.3 mm) W
- Weight: 9 oz. (255 g)

Cat. No.	Description	Std. Pkg.
Ty-Rap® Cable Tie Installation Tool		
ERG50	Tool for 18–50 lb. (80–222 N) Cable Ties	1
ERG120	Tool for 50–120 lb. (222–533 N) Cable Ties	



Cable Tie Installation Tools

Lightweight. Economical. Durable. Perfect for spot-tying!

They cinch up the tie with a squeeze action, and cut away the excess tail when twisted 180°. A specially designed pawl cuts away the tail if the tension limit is exceeded, thereby preventing the cable tie from being over-tightened.

- Installs Ty-Rap® cable ties up to 0.301 in. wide by 0.080 in. thick
- Designed for use by both left- and right-handed operators
- Lightweight, high-impact polymer and steel components



Cat. No.	Description	Tie Body Width		Std. Pkg.
		(in.)	(mm)	
Ty-Rap® Cable Tie Installation Tool — Light Duty				
WT1-TB	Cable Tie Installation Tool, 18–50 lb. (80–222.4 N)	0.09 - 0.18	2.39 - 4.67	1
WT2-TB	Cable Tie Installation Tool, 50–120 lb. (222.4–533.8 N)	0.18 - 0.301	4.67 - 7.65	

Easy tension adjustment!

- Installs Ty-Rap® cable ties
- Rugged metallic construction
- Pistol-grip installation tool
- Tensions and cut cable tie tail off flush



Get the job done right!

- Installs Ty-Rap® stainless steel cable ties
- Rugged stainless steel construction
- Pistol-type installation tool
- Adjustable tension settings



Cat. No.	Description	Tie Body Width		Std. Pkg.
		(in.)	(mm)	
Ty-Rap® Heavy-Duty Installation Tool — Mil Spec Approved				
WT199	Installation Tool, 18–50 lb. (80–222.4 N)	0.09 - 0.18	2.39 - 4.67	1
WT197	Installation Tool, 50–120 lb. (222.4–533.8 N)	0.18 - 0.30	4.67 - 7.65	

Mil Spec Approved (WT199 — MS90387-1, WT197 — MS90387-2)

Cat. No.	Description	Tie Body Width		Std. Pkg.
		(in.)	(mm)	
Ty-Rap® Heavy-Duty Installation Tool — Stainless Steel				
DAS250	Stainless Steel Installation Tool	0.31	7.87	1

Makes tie installation easy!

WT3D

- Installs both self-locking Ty-Rap® cable ties and lashing ties

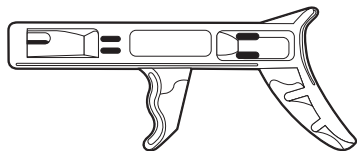


WT3S

- Installs stainless steel ties

Cat. No.	Description	Tie Body Width		Std. Pkg.
		(in.)	(mm)	
Ty-Rap® Installation Tool — Deltec™ & Stainless Steel				
WT3D	Deltec™ Installation Tool	0.18 - 0.50	4.67 - 12.70	1
WT3S	Stainless Steel Installation Tool	0.50	12.70	

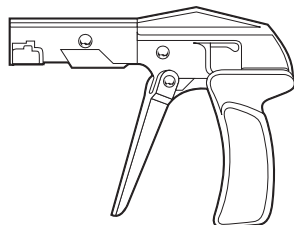
Cable Tie Installation Tools



QC-100 (plastic)

A lightweight tool for least critical applications. Cinch tie to desired bundle and twist tool to remove excess strap. Recommended for use with 18 - 50 pound ties.

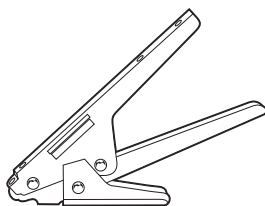
Cat. No.	Description	Tie Body Width (in.)	Std. Pkg.
Cable Tie Tool			
QC-100	Cable Tie Tool, 18-50 lb. tension Plastic Handle	0.094 - 0.184	1



L-200 Metal (steel)

Economy tool for use with 18 - 50 pound ties. Automatic cut-off removes excess strap flush against cable tie head. Tool is equipped with adjustable tensioning.

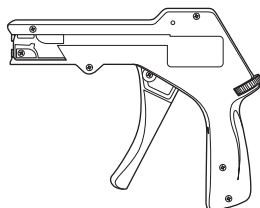
Cat. No.	Description	Tie Body Width (in.)	Std. Pkg.
Cable Tie Tool			
L-200	Cable Tie Tool, 18-50 lb. tension Steel Handle	0.094 - 0.184	1



L300-FR Metal (steel)

Rugged construction makes this tool ideal for use with our 120 - 175 pound ties. Cinch tie to desired bundle and pull trigger to cut excess flush at Cable Tie head. Field proven durability.

Cat. No.	Description	Tie Body Width (in.)	Std. Pkg.
Cable Tie Tool			
L300-FR	Cable Tie Tool, 120-175 lb. tension Steel Handle	0.301 - 0.345	1



L-400-C (plastic)

Heavy-Duty tool for use with 18 - 50 pound ties. Automatic cut-off and adjustable tensioning for dependable use in assembly applications.

Cat. No.	Description	Tie Body Width (in.)	Std. Pkg.
Cable Tie Tool			
L-400C	Cable Tie Tool, 18-50 lb. tension Plastic Handle	0.094 - 0.184	1