

Ty-Rap°/*Ty-Fast*° Cable Fastening Systems

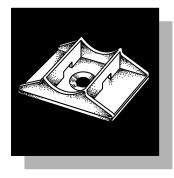
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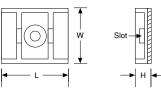
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Cable Tie Mounting Bases



Mounting Cradle

- Accepts cable ties to 50# tensile (miniature through standard).
- Supplied on closed cell foam with synthetic polymer "rubber" based adhesive.



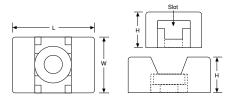
- Use #6 self-tapping screw for added strength if desired.
- UL Flammability 94 V-2 (mount).
- Mount molded in 6/6 Natural Nylon.

			H ight	Le	L ngth		W idth		lot ight		ot dth	Mount	Bulk
Cat. No.	Material	Inch	(mm)	Inch	(mm)	Inch	(mm)	Inch	(mm)	Inch	(mm)	Method	Pkg.
MCNY-1250-9-D	Natural Nylon	.285	(7.24)	1.250	(31.73)	1.000	(25.40)	.090	(2.29)	.300	(7.62)	Adhesive	500
MCNY-1250-9-C	Natural Nylon	.285	(7.24)	1.250	(31.73)	1.000	(25.40)	.090	(2.29)	.300	(7.62)	Adhesive	100
Tolerance ±		.010	(.254)		.015	(.381)			.010	(.254)			



Screw Mount

- SMNY-001 accepts cable ties to 50# Tensile (miniature through standard).
- SMNY-002 accepts cable ties to 120# Tensile (miniature through heavy duty).
- Use #4, #6, #8 or #10 machine screw (as referenced) to apply.
- Stocked in 6/6 Natural or heat stabilized Black Nylon.
- UL Flammability 94 V-2.



H Height W Width Slot Height Slot Width L Length Mount Bulk Pkg. Cat. No. Material Inch (mm) Inch (mm) Inch Inch Inch (mm) Method (mm) (mm) SMNY-000-9-D Natural Nylon .270 (6.86) .570 (14.48) .340 (8.64) .070 (1.78) .120 (3.10) #4 Screw 500 SMNY-001-9-D (15.24) .385 Natural Nylon .280 (7.11).600 (9.77) .060 (1.52) .200 (5.08) #6, #8 Screw 500 SMNY-002-9-C Natural Nylon .390 (9.90) .875 .625 (15.87) (2.29) .325 #8, #10 Screw 100 (22.22) .090 (8.26) SMNY-002-9-D Natural Nylon .390 (9.90) .875 (22.22) .625 (15.87) .090 (2.29) .325 (8.26) #8, #10 Screw 500 SMNY-001-0-D .600 .385 #6, #8 Screw 500 Heat Stabilized Black Nylon .280 (7.11) (15.24) (9.77) 060 (1.52) .200 (5.08) SMNY-002-0-C (9.90) .875 (22.22) .625 (15.87) .090 (2.29).325 (8.26) #8, #10 Screw 100 Heat Stabilized Black Nylon .390 SMNY-002-0-D Heat Stabilized Black Nylon .390 (9.90) .875 (22.22) .625 (15.87) .090 (2.29) .325 (8.26) #8, #10 Screw 500 Tolerance ± .015 (.381)



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Ty-Rap®/Ty-Fast®





Installers Know and Trust 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® and Ty-Fast® cable ties. These fastening systems include a full range of cable ties, identification ties, clamps, bases, harnessing aids and installing tools. Using T&B fastening systems for all wiring jobs, large and small, will speed and improve the reliability of harnessing and wire bundling while saving you money.

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 highspeed 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.

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.

Other Applications

- HVAC
- Recreational
- Telecom & Utility
- Packaging

Ty-Rap® and Ty-Fast® cable ties are remarkably well suited for a variety of other non-electrical applications. Tv-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, **SU**, Belcor, ADC and military specifications in North America. T&B also offers a complete stainless steel and Deltec cable fastening system for demanding and weather-resistant applications. Choose genuine Ty-Rap® cable ties for the rugged "Grip of Steel" or economical Ty-Fast® cable ties for lighter-duty service.

Choose Genuine Ty-Rap[®] and Ty-Fast[®] Cable Ties from Thomas & Betts

When you choose a cable tie from T&B, you can count on quality, performance and innovation to make your work easier. Depending on your application, choose genuine Ty-Rap[®] Cable ties or Ty-Fast[®] Cable Ties, along with our wide assortment of quality accessories and installing tools to make installation hassle-free.



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Ty-Rap[®]/Ty-Fast[®] **Cable Tying System**





Genuine Ty-Rap[®] Cable Ties provide industrial strength for the most demanding work.

T&B's Ty-Rap[®] Cable Ties feature these important advantages:

- Stainless steel locking device in the head. Ty-Rap® cable ties are infinitely adjustable within their bundle range. You get the right bundle tightness every time. The 316 stainless steel locking device in the nylon head secures the tie with the longer-lasting, corrosionresistant "grip of steel,"" exceeding the minimum pullout strength requirements specified in MIL-S-23190.
- Smooth body design with smooth rounded edges and uniform cross sections. The ties have no notches, thereby reducing stress areas that can weaken the tie and cause brittle breakage especially in cold and dry conditions. Smooth

edges won't snag while pulling through bulkheads. There are no sharp edges to be the source of installation injuries or to damage the wire insulation. The smooth surface design also adds an attractive finish to your wiring project.

- Mechanic's Grip No-slip tail for easy grasping and tensioning.
- Ribbed and stippled inner body -Prevents slipping on the bundle.
- Turned-up Tail Orients tail to head for easy assembly, easier to pick up on flat surface.

T&B also offers all-stainless steel, hook and loop and specialty material Ty-Rap[®] cable ties in a large variety of styles, colors and sizes for all your fastening applications.

being threaded and holds it

securely for final tightening.

• Quick, Easy Pull-Through -

Reduces operator fatigue, increases productivity.

T&B also offers a low-profile

• Competitively Priced - Ideal for high volume jobs, lowers installation

contoured version of Ty-Fast® cable

ties, along with a fully automated reel-

pick up on flat surface.

costs for OEMs.

fed fastening system.

• Turned-up Tail - Orients tail to



Ty-Fast[®] Cable Ties fit the needs of OEMs from start to finish.

T&B's Ty-Fast® Cable Ties feature these important advantages:

- Smooth Edges Designed to prevent cable insulation damage.
- Integrally formed nylon pawl Combines low insertion force and high locking strength.
- Rounded head Reduces snags, makes pulling bundles through tight spaces easier.
- Two-sided Finger Grip Design Helps the installer grasp and pull the tie snua
- Tab in center of the Tail Keeps the tail from popping out while

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.

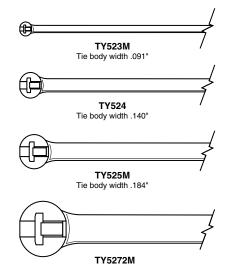
Tools

Ty-Rap[®] and Ty-Fast[®] 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[®] and Ty-Fast[®] installing tools have narrow noses and slim shapes for work in tight spaces or between harness board nails. The operation is quick, reliable and cost effective.





Ty-Rap° Cable Ties



Actual size body width .270"

Std. Cat. No.	Bulk Cat. No.	Body Width (in.)	Length (in.)	Max. Wire Bundle Dia. (in.)	Military Standard Part No.	Tensile Strength (Ibs.)	Std. Pkg.	Bulk Pkg.
TY523M	TY23M	.093	3.62	.625	MS3367-4	18	100	1000
TY52315M	TYB2315M	.092	7.00	1.500	-	18	100	1000
TY5232M	TY232M	.086	8.00	2.000	-	18	100	1000
TY5234M	TY234M	.086	14.00	4.000	-	18	100	1000
TY524M	TY24M	.140	5.50	1.125	MS3367-5	30	100	1000
TY5242M	TY242M	.140	8.19	2.000	-	30	100	1000
TY526M	TY26M	.140	11.10	3.000	-	40	100	1000
TY5244M	TY244M	.140	14.50	4.000	-	30	100	1000
TY525M	TY25M	.185	7.31	1.750	MS3367-1	50	100	1000
TY5253M	TY253M	.187	11.6	3.000	MS3367-7	50	100	1000
TY528M	TY28M	.187	14.20	4.000	MS3367-2	50	100	1000
TY5272M	TY272M	.270	8.75	2.000	-	120	50	500
TY527M⁺	TY27M [↑]	.270	13.40	3.500	MS3367-3	120	50	500
TY5275M	TY275M	.270	18.00	5.000	-	120	50	500
TY5277M	TY277M	.270	24.30	7.000	-	120	50	500
TY529M	TY29M	.270	30.00	9.000	MS3367-6	120	50	500
TY53510M [†]	-	.320	35.00	10.000	-	175	50	-
TY54513M [†]	-	.320	45.00	13.000	-	175	50	-

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 185°F to -40°F.

† 🔊 🖲 Recognized Models.

Standard Nylon 6/6 Cable Ties

• UL Listed Natural 6/6 Nylon Cable Ties are suitable for use in air handling spaces in accordance with Section 300-22 (C) & (D) of the National Electrical Code.

Nylon 6	/6 Weath	er Res	istant					
Std. Cat. No.	Bulk Cat. No.	Body Width (in.)	Length (in.)	Max. Wire Bundle Dia. (in.)	Military Standard Part No.	Tensile Strength (Ibs.)	Std. Pkg.	Bulk Pkg.
TY523MX	TY23MX	.093	3.62	.625	MS3367-4	18	100	1000
TY52315MX	TYB2315MX	.092	7.00	1.500	-	18	100	1000
TY5232MX	TY232MX	.086	8.00	2.000	-	18	100	1000
TY5234MX	TY234MX	.086	14.00	4.000	-	18	100	1000
TY524MX	TY24MX	.140	5.50	1.125	MS3367-5	30	100	1000
TY5242MX	TY242MX	.140	8.19	2.000	-	30	100	1000
TY526MX	TY26MX	.140	11.10	3.000	-	40	100	1000
TY5244MX	TY244MX	.140	14.50	4.000	-	30	100	1000
TY525MX	TY25MX	.185	7.31	1.750	MS3367-1	50	100	1000
TY5253MX	TY253MX	.187	11.6	3.000	MS3367-7	50	100	1000
TY528MX	TY28MX	.187	14.20	4.000	MS3367-2	50	100	1000
TY5272MX [†]	TY272MX	.270	8.75	2.000	-	120	50	500
TY527MX [†]	TY27MX*	.270	13.40	3.500	MS3367-3	120	50	500
TY5275MX	TY275MX	.270	18.00	5.000	-	120	50	500
TY5277MX	TY277MX	.270	24.30	7.000	_	120	50	500
TY529MX	TY29MX*	.270	30.00	9.000	MS3367-6	120	50	500
TY53510MX ⁺	-	.320	35.00	10.000	-	175	50	-
TY54513MX⁺	-	.320	45.00	13.000	-	175	50	-

* For military compliance of weather resistant black 120 lbs. ties, replace suffix X with 0 (ie. TY27M-0). * Not
* Listed or Recognized Models.

Ty-Rap[®] Nylon 6/6 Cable Tie – Color Assortment Max. Wire Body Width Military Tensile Length (in.) Bundle Dia. (in.) Std. Standard Strength (lbs.) Std. Pkg. Cat. No. Part No. (in.) 696-41853 0.184 7.31 1.75 50 10 _

Cable ties are same size as TY525M shown above. 10 ties in each color are packaged. 100 total cable ties per package.



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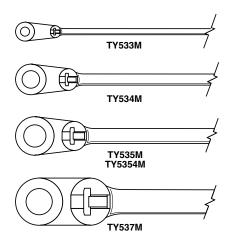
TY523MX Tie body width .091" TY524MX Tie body width .140" TY525MX Tie body width .184"

TY5272MX Actual size body width .270"

The MX series cable ties are recommended for outdoor use. The addition of carbon black provides good ultraviolet resistance and prolongs the useful life of the cable tie.

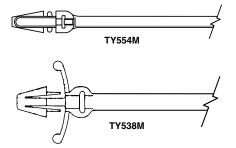


Ty-Rap° Cable Ties



Ty-Rap	® Mountin	g Head	Cable	e Ties				
Std. Cat. No.	Bulk Cat. No.	Body Width (in.)	Length (in.)	Max. Wire Bundle Dia. (in.)	Mounting Hole	Tensile Strength (Ibs.)	Std. Pkg.	Bulk Pkg.
ТҮ533М	ТҮЗЗМ	.091	4.00	.625	#4	18	100	1000
TY534M	TY34M	.140	6.00	1.125	#8	40	100	1000
TY535M TY5354M	TY35M TY354M	.184 .184	7.80 14.60	1.750 4.000	#10 #10	50 50	100 100	1000 1000
TY1435M TY635M TYF535M	– – TYF35M	.189 .189 .189	7.8 7.8 7.24	1.77 1.77 1.77	.248 .138 .138	50 50 50	- _ 100	1000 1000 1000
ТҮ537М	ТҮ37М	.301	13.90	3.500	1⁄4	120	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 185°F to -40°F.



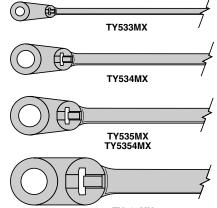
Ty-Rap[®] Push Mount Cable Ties

Nulon 6/6 Weather Desists

For use in % and $14^{\prime\prime}$ pre-drilled holes. Thickness panel .094 max. (TY554M) Range .04 - .156 (TY538M)

Std. Cat. No.	Bulk Cat. No.	Body Width (in.)	Length (in.)	Max. Wire Bundle Dia. (in.)	Mounting Hole	Tensile Strength (lbs.)	Std. Pkg.	Bulk Pkg.
TY554M	TY54M	.140	5.96	1.125	3⁄16	40	100	1000
TY538M	TY38M	.184	7.80	1.750	1⁄4	50	100	1000

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 185°F to -40°F.



TY537MX

The MX series cable ties are recommended for outdoor use. The addition of carbon black provides good ultraviolet resistance and prolongs the useful life of the cable tie.

NYION 0	o weath	er kes	Istant					
Std. Cat. No.	Bulk Cat. No.	Body Width (in.)	Length (in.)	Max. Wire Bundle Dia. (in.)	Mounting Hole	Tensile Strength (Ibs.)	Std. Pkg.	Bulk Pkg.
TY533MX	ТҮЗЗМХ	.091	4.00	.625	#4	18	100	1000
TY534MX	TY34MX	.140	6.00	1.125	#8	40	100	1000
TY535MX	TY35MX	.184	7.80	1.750	#10	50	100	1000
TY5354MX	TY354MX	.184	14.60	4.000	#10	50	100	1000
TY538MX	TY38MX	.184	7.80	1.750	1⁄4	50	-	1000
TY537MX	ТҮ37МХ	.301	13.90	3.500	1⁄4	120	50	500



How to Order Color-Coded Ty-Rap® Ties and Accessories							
Color	Suffix No.	Color	Suffix No.				
Black (outdoor)	X	Green	5				
Brown	1	Blue	6				
Red	2	Purple	7				
Orange	3	Gray	8				
Yellow	4	White	9				

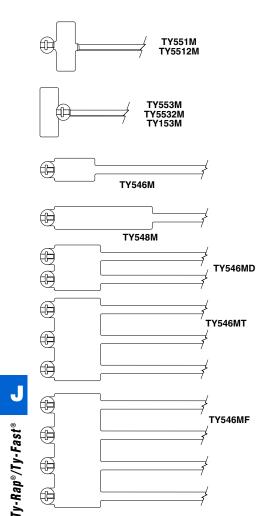
Natural nylon is standard. For colored Ty-Rap® ties, add the following suffix numbers to catalog numbers. Example: TY25M-2 would be red TY25M. (Consult customer service for ordering information.)



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Ty-Rap®/Ty-Fast®





Ty-Rap	Ty-Rap [®] Identification Cable Ties											
Std. Cat. No.	Bulk Cat. No.	Body Width (in.)	Total Length (in.)	Max. Wire Bundle Dia. (in.)	Military Standard Part No.	Marking Pad Size (in.) W x H	Tensile Strength (Ibs.)	Std. Pkg.				
TY551M TY5512M	TY51M TY512M	.093 .090	3.60 8.30	.625 2	MS3368-5	1 x .313 1 x .313	18 18	50 100				
TY553M	TY53M	.093	4.00	.625	-	.813 x .359	18	50				

500 TY532M 090 8 40 2 813 x 359 18 100 TY5532M 1000 TY153M .097 4.35 0.625 .781 x 1 18 500 _ MS3368-1 TY546M TY46M .184 7.1 1.75 5 x .875 50 100 1000 TY548M TY48M .187 14.2 MS3368-2 5 x 2.125 1000 4 50 100 TY546MD TY46MD .185 7.25 1.75 MS3368-3 1.172 x 1 50 50 500 TY546MT TY46MT .185 7.25 1.75 MS3368-4 1.210 x 1 50 100 500 TY546MF TY46MF 1.75 2.48 x 1 50 .185 7.25 _ 500

Self-locking Ty-Rap[®] identification ties are available in both single and multiple configurations. They may be marked with the special Thomas & Betts black or red marking pen which produces a permanent legend, or they can be heat stamped. 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.



Custom Heat Stamping

Thomas & Bett's Custom Heat Stamping provides an economical way to fasten and identify cable bundles. Mark nylon cable ties, identification cable ties, and identification plates to suit your application.

- 1/16". 1/8". 3/16" characters available.
- Standard Type: Gothic Capitol.
- Character sizes can be mixed from line to line on Identification cable ties.
- Alphanumeric and Sequential numbering available.

- Six digit sequential numbering available in 1/8" characters.
- Eight digit sequential numbering available in 1/16" and 3/16" characters.

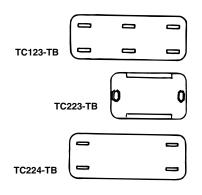
Bulk Pkg.

500 1000

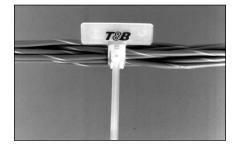
- The following colors of heat stamping are available – Black, Blue, Green, Red, Yellow, Orange and White.
- Special logos and different type styles can be accommodated when camera ready artwork is provided.
- Minimum order quantity is 2500 pieces per part number and message.

Contact Technical Services for Pricing, Availability, Quotation and Order Entry **888-862-3289**.









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

- When shapped onto the the 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.



Identification Plates

Width (in.)	Length (in.)	Thickness (in.)	Max. Cable Tie Width (in.)	Bulk Pkg.
.75	1.25	.010	.190	1000
.75	1.50	.010	.190	1000
.75	1.75	.010	.190	1000
.75	2.00	.010	.190	1000
.75	2.50	.010	.190	1000
.75	1‰	.015	.190	1000
.75	1%2	.015	.190	1000
.75	1.28	.015	.190	1000
.75	1.75	.015	.190	1000
.75	2.00	.015	.190	1000
.75	2.50	.015	.190	1000
	(in.) .75 .75 .75 .75 .75 .75 .75 .75	(in.) (in.) .75 1.25 .75 1.50 .75 1.75 .75 2.00 .75 2.50 .75 1½ .75 1½ .75 1½ .75 1.28 .75 1.75 .75 1.28 .75 1.75 .75 2.00	(in.) (in.) (in.) .75 1.25 .010 .75 1.50 .010 .75 1.75 .010 .75 2.00 .010 .75 2.00 .010 .75 2.50 .010 .75 1½ .015 .75 1½ .015 .75 1.28 .015 .75 1.75 .015 .75 1.75 .015 .75 1.28 .015 .75 1.28 .015 .75 1.28 .015 .75 1.20 .015	Width (in.) Length (in.) Thickness (in.) Width (in.) .75 1.25 .010 .190 .75 1.50 .010 .190 .75 1.75 .010 .190 .75 2.00 .010 .190 .75 2.00 .010 .190 .75 2.50 .010 .190 .75 1½ .015 .190 .75 1½ .015 .190 .75 1.28 .015 .190 .75 1.75 .015 .190 .75 1.28 .015 .190 .75 2.00 .015 .190

Ranging in length from 11/4" to 21/2", the identification plates are secured to the cable with Ty-Rap® ties. They are composed of .010"- and 1015"-thick nylon, and have a surface which can be marked easily. Thomas & Betts offers custom heat stamping of your plates at the factory. Other materials are available. Contact customer service. Tetzel® is a registered trademark of Dupont.

Snap-On Identification Marker Tag

- Allows marking and bundling to be done in one operation.
- The marking can be made with a Thomas & Betts permanent marking pen (black or red); catalog numbers: WT163M-1 (black), WT163M-3 (red).
- 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.

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Std. Cat. No.	Bulk Cat. No.	Description	Marking Pad Size (in.) W x H	Std. Pkg.	Bulk Pkg.
TC523	TC23	Snaps onto the heads of all miniature 18 lbs. series cable ties	1" x .35"	100	1000
TC524	TC24	Snaps on to the heads of all intermediate 30 & 40 lbs. series cable ties	1" x .50"	100	1000
TC525	TC25	Snaps onto the heads of all standard 50 lbs. series cable ties	1" x .50"	100	1000

Note: Made of natural nylon 6/6.

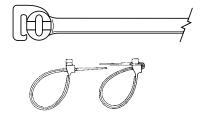
Ty-Rap [®] Marking Pens							
Cat. No.	Color Ink	Std. Pkg.					
WT163M-1	Black	1					
WT163M-3	Red	1					

· Permanent, fine point.

Striped 1	Striped Ties							
Bulk Cat. No.	Width (in.)	Length (in.)	Max. Wire Bundle Dia.	Tensile Strength	Bulk Pkg.			
650-40587-1	0.091	3.62	0.625	18	-			









This Ty-Rap[®] brand cable tie lets you secure wire This Ty-Hap[®] brand cable the fets you secure wire bundles up to 1% 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.

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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 1/6 to 2% inches reduces your inventory one clamp replaces many.
 Visually attractive head resembles rivet.
 Locking grooves maintain tight grip.

Reusable Ty-Rap® Cable Ties

Cat. No.	Body Width (in.)	Length (in.)	Bundle Dia. (in.)	Tensile Strength	Std. Pkg.
TYR505	.184	7.50	1.75	50	100
TYR508	.184	14.30	4.00	50	100

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 185°F to -40°F.

Plug-Ty [®]	[°] Cable Tie	for Masonry	Surfaces		
Cat. No.	Body Width (in.)	Max. Wire Bundle Dia. (in.)	Masonry Hole Size	Pullout Force	Std. Pkg.
TY544MX	.184	1.75	1/4	25	50

Drive-Ty	[®] Cable Tie			
Cat. No.	Body Width (in.)	Max. Wire Bundle Dia. (in.)	Pullout Force	Std. Pkg.
TY545MX	.184	1.5	50	50

Universal Button Head Cable Tie										
Std. Cat. No.	Bulk Cat. No.	Body Width (in.)	Length (in.)	Max. Wire Bundle Dia. (in.)	Hole Size	Tensile Strength	Std. Pkg.	Bulk Pkg.		
TY541M	TY41M	.225	9.60	2.37	.3268	65	50	1000		
650-41600	-	.225	10.25	2.5	.3268	65	500	1000		
696-41848	-	.225	12.5	3	.3268	65	500	1000		

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.



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Ty-Rap[®] Cable Ties for Special Environments

Cable Ties – 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.

General

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: Tefzel®*, 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 and 3 for more detailed information regarding

5 = Most Suitable

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.

*- Tefzel $^{\otimes}$ is the trademark of E. I. DuPont deNumours and Compant.

+ - Halar® is the trademark of Solvey Solexius.

1 = Least Suitable

Available Materials

	Natural 66 Nylon	Weather Resistant 66 Nylon	Heat Stabilized Natural 66 Nylon	Flame Retardant 66 Nylon	Weather Resistant Nylon 12	Weather Resistant Polypropylene	Tefzel®	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
Hig Temperature	3	3	4	3	2	2	4	4	5	2
Flammablity	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					

Thomas&Betts

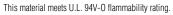
Ty-Rap° Cable Ties for Special Environments





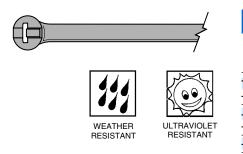
Bulk Cat. No.	Body Width (in.)	Length (in.)	Max. Wire Bundle Dia. (in.)	Marking Pad Size (in.) W x H	Tensile Strength (lbs.)	Bulk Pkg.
TY23MFR	.091	3.62	.625	NA	18	1000
TY232MFR	.091	8.00	2.00	NA	18	1000
TY24MFR	.140	5.50	1.125	NA	40	1000
TY25MFR	.184	7.31	1.75	NA	50	1000
TY28MFR	.184	14.20	4.00	NA	50	1000
TY272MFR [†]	.301	8.00	2.00	NA	120	500
TY27MFR	.301	13.20	3.50	NA	120	500
TY53MFR	.091	4.00	.625	.813 x .359	18	500
TY153MFR	.097	4.35	.625	.781 x 1	18	500

For additional specifications see pages J19-J20.



⁺ Not ® Recognized Model.

Color - White



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Ty-Rap®/Ty-Fast®

Nylon 1	2 Ties		
Std. Cat. No.	Bulk Cat. No.	Body Width (in.)	Length (in.)

Std. Cat. No.	Bulk Cat. No.	Width (in.)	Length (in.)	Bundle Dia. (in.)	Strength (lbs.)	Std. Pkg.	Bulk Pkg.
TC525MX	TYC25MX	.184	7.31	1.75	35	100	1000
-	TYC28MX	.184	14.20	4.00	35	-	1000
_	TYC272MX	.270	8.00	2.00	85	-	500
-	TYC27MX	.270	13.20	3.50	85	-	500
-	TYC29MX	.300	30.00	9.00	85	-	500

Max. Wire

Tensile

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

Color – Black





HIGH	
EMPERATUR	RE

Heat-Stat	oilized Ties				
Bulk Cat. No.	Body Width (in.)	Length (in.)	Max. Wire Bundle Dia. (in.)	Tensile Strength (lbs.)	Bulk Pkg.
TYH24M	.140	5.50	1.125	30	1000
ТҮН25М ТҮН28М	.184 .184	7.31 14.20	1.75 4.00	50 50	1000 1000
TYH27M	.270	13.20	3.50	120	500
TYH26M	.140	11.10	3.00	30	1000
TYH212M					
ТҮН29М	.301	30.00	9.00	120	500
TYH232M	.091	8.00	2.00	18	1000
TYH242M	.140	8.19	2.00	30	1000
ТҮН23М	.091	3.62	.625	18	1000
TYH253M	.184	11.40	3.00	50	1000

Heat-stabilized ties are recommended for higher continuous temperature use (221°F/105°C).

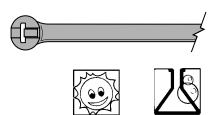
Material meets ASTM D4066 PA121.

Color – Green Tint



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Ty-Rap[®] Cable Ties for Special Applications



ULTRAVIOLET RESISTANT

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.





CHEMICAL

RESISTANT

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

Weather-Resistant Polypropylene Ties								
Bulk Cat. No.	Body Width (in.)	Length (in.)	Max. Wire Bundle Dia. (in.)	Tensile Strength (lbs.)	Bulk Pkg.			
TYP25MX	.184	7.31	1.75	30	1000			
TYP28MX	.184	14.20	4.00	30	1000			
ТҮР27МХ	.270	13.20	3.50	60	500			

Color – Black

Halar®*	Cable Ti	es					\smile
Std. Cat. No.	Bulk Cat. No.	Body Width (in.)	Length (in.)	Max. Wire Bundle Dia. (in.)	Tensile Strength (lbs.)	Std. Pkg.	Bulk Pkg.
TYV523M	-		.091	3.62	.625	18	100
TYV525M	TYV25M	.184	7.31	1.750	50	100	1000

* Solvay Solexis, Inc. registered trademark.

Color - Maroon

Ty-Rap®/Ty-Fast®

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Tefzel® cable ties offer high-radiation resistance and temperature stability to 302°F. Also, Tefzel® provides excellent resistance to ultraviolet light and meets U.L. flammability rating 94V-0.

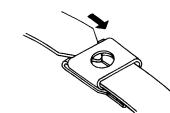
TEFZEL®	* Cable 1	lies					,
Std. Cat. No.	Bulk Cat. No.	Body Width (in.)	Length (in.)	Max. Wire Bundle Dia. (in.)	Tensile Strength (Ibs.)	Std. Pkg.	Bulk Pkg.
TYZ523M	TYZ23M	.091	3.62	.625	18	100	1000
TYZ525M TYZ528M	TYZ25M TYZ28M	.184 .184	7.31 14.19	1.750 4.000	50 50	100 100	1000 1000
TYZ527M	TYZ27M	.301	13.38	3.500	120	50	500

* DuPont registered trademark.

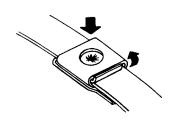
Color – Aqua



Ty-Rap[®] 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.

Ty-Rap[®]/Ty-Fast[®]

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.

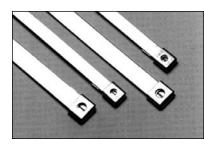
To use, simply separate the pull-up handle from the body, push the release lever down and insert the clamp tail as far as possible. Squeeze the pull-up handle until the band is tight. Finally, move the pull-up handle to the locking/cut-off position by moving it away from the body as far as it will go.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

Catalog Number System

TYS CABLE TIE SS = Two-p solid		NGTH INCHES 6.0" long	280 WIDTH 280 = .280" wide	C COATED C = Nylon 11 coated = uncoated
	cable tie			
Туре	304			
TYS = Mul	ti-lock			
	nless steel			
	le tie			
- //	e 316			
cab	usable nless steel le tie e 200/300			
SSH = Hea stai				



Ty-Rap[®] **Stainless Steel Cable Ties and Accessories**



Strong, safe, low-profile permanent single wrap ties with a unique, dual lock.

Standard Stainless Steel Cable Ties

		undle eter of	Tensile Strenath	W	idth	Len	gth	Weig	jht
Cat. No.	in.	mm	lbs.	in.	mm	in.	mm	lbs.	kg.
SS10-250	2	51	200	.25	6.35	10.0	254	1.1	6.50
SS17-250	4	101	200	.25	6.35	16.5	419	1.8	0.82
SS23-250	6	152	200	.25	6.35	22.5	572	2.5	1.14
SS29-250	8	203	200	.25	6.35	29.0	737	3.2	1.45
SS35-250	10	254	200	.25	6.35	35.0	889	3.8	1.73
Mini Stainless	Steel Ca	ble Ties							
SS7-180	1	25	100	.177	4.5	6.5	165	0.7	0.32
SS10-180	2	51	100	.177	4.5	10.0	254	0.9	0.41
SS16-180	4	102	100	.177	4.5	16.0	406	1.4	0.64
SS23-180	6	152	100	.177	4.5	22.5	572	1.846	-
SS29-180	8	203	100	.177	4.5	29.0	737	2.346	-

304 Stainless Steel

Packaging Quantity: 100/bag

.015" (.38mm) Thickness

Note: Other lengths available on special request. Add suffix **-316** for 316 Stainless Steel.



A lightweight, pocket size hand tool which quickly and easily applies standard-size stainless steel ties.



Same features as the Standard Tie Installation Tool but used to apply mini-size stainless steel ties.

Standard Tie Installation Tool

		Wei	ight
Cat. No.	Description	lbs.	kg.
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

Packaging Quantity: 1/box

Ty-Rap®/Ty-Fast®

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Mini Tie Installation Tool

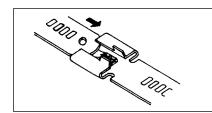
		Wei	ght
Cat. No.	Description	lbs.	kg.
	Hand tool to apply standard stainless steel cable ties; easy to use tool		
WTA290	applies tension, locks tie with the dual lock, and cuts off band	1.17	0.53
	flush with top surface of buckle		

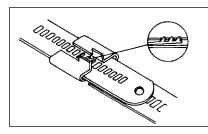
Packaging Quantity: 1/box

Note: Mini Installation Tools will only apply mini-size ties.



Ty-Rap° Multi-Lok Stainless Steel Self-Locking Cable Ties





As the free end of the Multi-Lok tie passes through the buckle, three separate teeth (four teeth in the 12mm Multi-Lok) mesh with corresponding slots in the band automatically locking the tie as it is being tensioned. Self-locking Multi-Lok Ties feature an extremely strong, unique multiple locking system. Fire hazards ... corrosive environments ... temperature extremes ... for many cable bundling applications, plastic ties are simply inadequate-or even dangerous.

That's why we developed stainless steel Multi-Lok Ties. Unaffected by fire, UV or extreme temperatures, corrosion-resistant Multi-Lok Ties provide a safe, strong, worry-free hold.

Quickly and easily applied by hand or with the Thomas & Betts Cable Tie Tensioner or Tensioning hook, MultiLok Ties feature a unique, self-locking, multiple-locking system that holds in excess of 200 lbs.

Multi-Lok Ties are manufactured from Type 316 stainless steel and are available either uncoated or coated with halogen-free, non-toxic black Nylon 11. This weather-resistant coating is unaffected by UV sunlight. This adds resistance to corrosion, chemicals, and weathering. Ties are available in two widths and various lengths.



Type 316 Stainless Steel–Nylon 11 Coated

	Tensile Strength	Wi	dth	Leng	jth	We	ight
Cat. No.	lbs.	in.	mm	in.	mm	lbs.	kg.
TYS6-280C	250	.276	7	6	150	.66	.30
TYS9-280C	250	.276	7	9	225	.99	.45
TYS12-280C	250	.276	7	12	300	1.32	.60
TYS18-280C	250	.276	7	18	450	1.76	.80
TYS24-280C	250	.276	7	24	610	2.64	1.20
TYS6-470C	250	.472	12	6	150	1.10	.50
TYS9-470C	250	.472	12	9	225	1.65	.75
TYS12-470C	250	.472	12	12	300	2.20	1.00
TYS18-470C	250	.472	12	18	450	2.97	1.35
TYS24-470C	250	.472	12	24	610	4.29	1.95

Packaging Quantity: 100/bag .010" (.245mm) Thickness

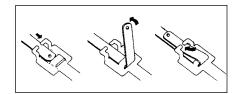
Type 316	Stainless St	Type 316 Stainless Steel–Uncoated												
	Tensile Strenath	Wid	ith	Ler	igth	Weight								
Cat. No.	lbs.	in.	mm	in.	mm	lbs.	kg.							
TYS6-280	250	.276	7	6	150	.66	.30							
TYS9-280	250	.276	7	9	225	.88	.40							
TYS12-280	250	.276	7	12	300	1.21	.55							
TYS18-280	250	.276	7	18	450	1.98	.90							
TYS24-280	250	.276	7	24	610	2.64	1.20							
TYS6-470	250	.472	12	6	150	1.10	.50							
TYS9-470	250	.472	12	9	225	1.65	.75							
TYS12-470	250	.472	12	12	300	2.20	1.00							
TYS18-470	250	.472	12	18	450	3.19	1.45							
TYS24-470	250	.472	12	24	610	4.29	1.95							

Packaging Quantity: 100/bag .010" (.245mm) Thickness



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Ty-Rap[®] **Reusable Stainless Steel Cable Ties**



Fast, Easy Installation Thomas & Betts Reusable Ties are fast and easy to install. Simply pass free end of tie through buckle bridge, tension by hand or with a Thomas & Betts Tensioning Tool, bend over bridge, and secure into preformed ears.

Reusable Stainless Steel Cable Ties



Cable Tie Tensioner



Tensioning Hook



Tie-It Tool WT5S

These reusable cable ties are made from high-strength, corrosion-resistant 200/300 series stainless steel, coated with a non-toxic, halogen-free, lowsmoke Nylon 11.

The unique buckle design provides quick, easy application and can just as easily be unfastened for reuse. The low temperatures and protects the cables from damage or interference due to direct contact with the stainless steel. The coated product is also userfriendly on the installer's hands.

weather-resistant Nylon 11 coating is

unaffected by UV, extremely flexible at

For Cable Bundling in Harsh Environments



Ty-Rap[®]/Ty-Fast[®]

Reusable Stainless Steel Cable Ties–Coated

	Tensile Strength	W	idth	Lei	ngth	Wei	ght
Cat. No.	lbs.	in.	mm	in.	mm	lbs.	kg.
SSR6-250C	75	1⁄4	6.35	6	152	1.4	.6
SSR9-250C	75	1/4	6.35	9	229	1.8	.8
SSR12-250C	75	1/4	6.35	12	305	2.1	1.0
SSR18-250C	75	1/4	6.35	18	457	3.0	1.4
SSR24-250C	75	1/4	6.35	24	610	3.7	1.7
SSR6-375C	100	3%	9.53	6	152	1.8	.8
SSR9-375C	100	3%	9.53	9	229	2.5	1.1
SSR12-375C	100	3%	9.53	12	305	3.1	1.4
SSR18-375C	100	3%	9.53	18	457	4.4	2.0
SSR24-375C	100	3%	9.53	24	610	6.6	3.0
SSR30-375C	100	3%	9.53	30	762	7.0	3.2
SSR36-375C	100	3⁄8	9.53	36	914	8.3	3.8

Material: 200/300 Series Stainless Steel

Packaging Quantity: 100/bag

.015" (.38mm) Metal Thickness; .045" (1.1mm) Coated Thickness

Nylon 11 Coating Note: This product may be double-wrapped for additional tensile strength. For additional colors and uncoated ties, consult Thomas & Betts Customer Service for pricing and availability.

For 316 Stainless Steel, add "suffix -316" after catalog number. Consult Customer Service for availability.

Tensioning Tools

		Weig	ht
Cat. No.	Description	lbs.	kg.
Cable Tie Tensioner WTAE200	For tensioning Reusable Ties and Multi-Lok Ties	.6	.3
Packaging Quantity: 1/box			
Tensioning Hook WTAE201	For tensioning Reusable Ties and Multi-Lok Ties	.1	.05
Packaging Quantity: 1/box			
Tie-It Tool WT5S	For installing Multi-Lok Series Stainless Steel Ties	1.0	.45
Packaging Quantity: 1/box			

U.L. listed



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Ty-Rap[®] Stainless Steel Ties-Free-End



Pre-assembled Free-End Clamps provide maximum strength and durability. They may be single-wrapped or, for extra strength, double-wrapped.

Strong, durable Free-End Clamps are available in a wide range of lengths, widths, and thicknesses.

Heavy Duty Free-End Stainless Steel Clamps–Type 201

	Or	. Dia. nce und	Max. Tw Aro	ice	Total Length		Tensile Strength Single Wrap	Band Width		Band Thickness		Pkg.	Wei	Weight	
Cat. No.	in.	mm	in.	mm	in.	cm	lbs.	in.	mm	in.	mm	Qty.	lbs.	kg.	
SSH10-250	2	50	-	-	10	25	450	1⁄4	6.35	.020	.51	100	2.2	.99	
SSH16-250	3½	88	1½	38	16	40	450	1⁄4	6.35	.020	.51	100	3.1	1.40	
SSH16-375	3½	88	1½	38	16	40	900	3%	9.53	.025	.63	100	6.2	2.80	
SSH18-500	4	101	2	50	18	45	1400	1/2	12.70	.030	.76	100	10.5	4.80	
SSH19-250	5	127	2½	63	19	48	450	1⁄4	6.35	.020	.51	100	3.5	1.60	
SSH21-625	5	127	2½	63	21	53	1700	5%	15.88	.030	.76	100	15.1	6.80	
SSH24-750	6	152	3	76	24	60	2000	3/4	19.05	.030	.76	50	10.9	4.90	
SSH27-250	7	177	3½	88	27	68	450	1⁄4	6.35	.020	.51	100	4.6	2.10	
SSH31-500	8	203	4	101	31	78	1400	1/2	12.70	.030	.76	25	4.7	2.10	
SSH34-250	9	228	4½	114	34	86	450	1⁄4	6.35	.020	.51	100	5.6	2.60	
SSH37-750	10	254	5	127	37	93	2000	3/4	19.05	.030	.76	25	7.6	3.50	
SSH44-375	12	304	6	152	44	112	900	3%	9.53	.025	.63	25	3.6	1.60	
SSH50-750	14	355	7	177	50	127	2000	3/4	19.05	.030	.76	25	9.7	4.40	
SSH56-625	16	406	8	203	56	142	1700	5%	15.88	.030	.76	25	9.0	4.10	
SSH62-750	18	457	9	228	62	157	2000	3/4	19.05	.030	.76	25	11.6	5.30	
SSH69-625	20	508	10	254	69	175	1700	5%	15.88	.030	.76	25	10.7	4.80	

Type 201 Stainless Steel

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

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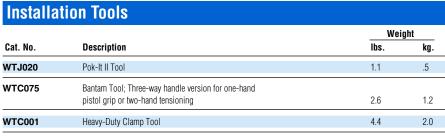


WTJ020

Lightweight pocket-size tool to install ¼" and ¾" wide Free-End Clamps. It applies tension and has a built-in cutter.



Designed to install ¼" to ¾" wide Free-End Clamps. The lightweight, rachet-action tool tensions, cuts and secures the buckle tab.



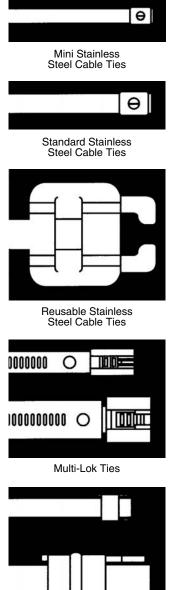
Packaging Quantity: 1/box



A drop-forged tool with tensioning capability to do all Free-End Clamps.



Ty-Rap° Stainless Steel Ties



Free-End Clamps

Specifications

		14	'idth		nath	Thia	kn	S	x. Dia. ingle	Do	. Dia. uble
Cat. No.		in.	mm	in.	ngth mm	in.	kness mm	in.	Vrap mm	in.	rap mm
SS7-180		.177	4.50	6.5 10	165 254	.015	.38	1.7	43 71	,	ngle
SS10-180		.177	4.50 4.50	10	254 406	.015 .015	.38 .38	2.8 4.7	119		rap
SS16-180 SS23-180		.177	4.50	100	.177	4.5	.30 22.5	4.7 572	1.846	01	ıly)
SS29-180		8	203	100	.177	4.5	22.5	737	2.346	-	_
SS10-250		1⁄4	6.35	10	254	.015	.38	2.1	53		
SS17-250		1⁄4	6.35	16.5	419	.015	.38	4.3	109		ngle
SS23-250		1⁄4	6.35	22.5	572	.015	.38	6.5	165		rap
SS29-250		1⁄4	6.35	29	737	.015	.38	8.5	215	Oľ	ıly)
SS35-250		1⁄4	6.35	35	889	.015	.38	10.5	265		
SSR6-250C		1⁄4	6.35	6	152	.015	.38	1.5	38	N.A.	N.A.
SSR9-250C		1⁄4	6.35	9	229	.015	.38	2.5	63	1.1	28
SSR12-250C		1⁄4	6.35	12	305	.015	.38	3.4	86	1.5	38
SSR18-250C		1⁄4	6.35	18	457	.015	.38	5.4	137	2.5	64
SSR24-250C		1⁄4	6.35	24	610	.015	.38	7.3	185	3.5	89
SSR6-375C		3/8	9.53	6	152	.015	.38	1.5	38	N.A.	N.A.
SSR9-375C		3/8	9.53	9	229	.015	.38	2.5	63	1.1	28
SSR12-375C		3⁄8	9.53	12	305	.015	.38	3.4	86	1.5	38
SSR18-375C		3⁄8	9.53	18	457	.015	.38	5.4	137	2.5	64
SSR24-375C		3⁄8	9.53	24	610	.015	.38	7.3	185	3.5	89
SSR30-375C		3⁄8	9.53	30	762	.015	.38	9.1	231	4.4	112
SSR36-375C		3⁄8	9.53	36	914	.015	.38	11.0	280	5.3	135
Uncoated	Nylon 11 Coated										
TYS6-280	TYS6-280C	.28	7.00	6	152	.010	.25	1.9	48		
TYS9-280	TYS9-280C	.28	7.00	9	229	.010	.25	2.8	71		
TYS12-280	TYS12-280C	.28	7.00	12	305	.010	.25	3.8	96		
TYS18-280	TYS18-280C	.28	7.00	18	457	.010	.25	5.7	144	(si	ngle
TYS24-280	TYS24-280C	.28	7.00	24	610	.010	.25	7.6	193		
TYS6-470	TYS6-470C	.47	12.00	6	152	.010	.25	1.9	48	- or	nly)
TYS9-470	TYS9-470C	.47	12.00	9	229	.010	.25	2.8	71		
TYS12-470	TYS12-470C	.47	12.00	12	305	.010	.25	3.8	96		
TYS18-470	TYS18-470C	.47	12.00	18	457	.010	.25	5.7	144		
TYS24-470	TYS24-470C	.47	12.00	24	610	.010	.25	7.6	193		
								-			
SSH10-250		1/4	6.35	10	250	.020	.51	2.0	50	N.A.	N.A.
SSH16-250		1⁄4	6.35	16	400	.020	.51	3.5	88	1.5 2.5	38 63
SSH19-250 SSH27-250		1⁄4 1⁄4	6.35 6.35	19 27	480 680	.020	.51 .51	5.0 7.0	127 177	2.5	63 88
SSH27-250 SSH34-250		1/4	6.35	34	860	.020	.51	7.0 9.0	228	3.5 4.5	88 114
				-			-			-	
SSH16-375		3⁄8	9.53	16	400	.025	.63	3.5	88	1.5	38
SSH44-375		3⁄8	9.53	44	1120	.025	.63	12.0	304	6.0	152
SSH18-500		1/2	12.70	18	460	.030	.76	4.0	101	2.0	50
SSH31-500		1/2	12.70	31	780	.030	.76	8.0	203	4.0	101
SSH21-625		5%	15.88	21	530	.030	.76	5.0	127	2.5	63
SSH56-625		5% 56	15.88	56	1420	.030	.76	16.0	406	8.0	203
SSH69-625		5%	15.88	69	1750	.030	.76	20.0	508	10.0	254
SSH24-750		3⁄4	19.05	24	600	.030	.76	6.0	152	3.0	76
SSH37-750		3⁄4	19.05	37	940	.030	.76	10.0	254	5.0	127
SSH50-750		3⁄4	19.05	50	1270	.030	.76	14.0	355	7.0	177
		3⁄4	19.05	62	1570	.030	.76	18.0	457	9.0	228



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J Ty-Rap®/Ty-Fast®

Ty-Rap° Stainless Steel Ties

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				Min.	000	Min. I	000		
Dat Na		Stainless Steel	0	Tens Strer Single	sile ngth Wrap	Tens Stren Double	ile gth Wrap	Application	
Cat. No.		Туре	Coating or Finish	LDS N	lewtons	Lbs I	Vewtons	Tools Used	General Application
S7-180*		304	Dull to Bright	100	445	(sing	gle	WTA290	 Wire/Cable bundling
S10-180*		304		100	445	wra	p		 I.D. Tagging
S16-180*		304		100	445	onl	y)		
S23-180*		304		100	445				
S29-180*		304		100	445				
S10-250*		304	Dull to Bright	200	890				
S17-250*		304		200	890	(sing	gle	WTA250	 Wire/Cable bundling
S23-250*		304		200	890	wra			 I.D. Tagging
S29-250*		304		200	890	onl	y)		
S35-250*		304		200	890				
SR6-250C		200/300		75	334	300	1334		
SR9-250C		200/300		75	334	300	1334		
SR12-250C		200/300		75	334	300	1334		 Reusable
SR18-250C		200/300	Nylon 11 Coated	75	334	300	1334		 Cable bundling
SR24-250C		200/300	(Uncoated or other	75	334	300	1334		Oil Rigs
SR6-375C		200/300	colors available on	100	445	500	2224	WTAE200	 Tele-Communica-
SR9-375C		200/300	special order)	100	445	500	2224	WTAE201	tions towers
SR12-375C		200/300		100	445	500	2224	WTC075	 Hazardous and
SR18-375C		200/300		100	445	500	2224		corrosive environ-
SR24-375C		200/300		100	445	500	2224		ments
SR30-375C		200/300		100	445	500	2224		
SR36-375C		200/300		100	445	500	2224		
Jncoated	Nylon 11 Coated								
YS6-280	TYS6-280C	316		250	1112				
YS9-280	TYS9-280C	316		250	1112				
YS12-280	TYS12-280C	316		250	1112				
YS18-280	TYS18-280C	316	Uncoated or	250	1112	(sing	gle	WTAE200	 Self-locking
YS24-280	TYS24-280C	316	Nylon 11	250	1112	wra	p	WTAE201	 Cable bundling
YS6-470	TYS6-470C	316	Coated Black	250	1112	only	y)	WTC075	Hazardous and
YS9-470	TYS9-470C	316		250	1112				corrosive
YS12-470	TYS12-470C	316		250	1112				environments
YS18-470	TYS18-470C	316		250	1112				
YS24-470	TYS24-470C	316		250	1112				
SH10-250		201		450	2002	1200	5338		
SH16-250		201		450	2002	1200	5338		
SH19-250		201	Bright	450	2002	1200	5338	WTC001	 Indus. hoses
SH27-250		201		450	2002	1200	5338	WTC075	 Cable bundling
SH34-250		201		450	2002	1200	5338	WTJ020	 Hi-strength
SH16-375		201		900	4003	2400	10675		
SH44-375		201		900	4003	2400	10675		
SH18-500		201		1400	6227	3300	14678		
SH31-500		201		1400	6227	3300	14678	WTC001	
SH21-625		201		1700	7562	4000	17792	WTC075	
SH56-625		201		1700	7562	4000	17792		
SH69-625		201		1700	7562	4000	17792		
SH24-750		201		2000	8896	5000	22240		
SH37-750		201		2000	8896	5000	22240	WTC001	
SH50-750		201		2000	8896	5000	22240		
SH62-750		201		2000	8896	5000	22240		

Thomas & Betts 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.



Ty-Rap[®] Stainless Steel Cable Ties



Stainless steel cable ties have been designed for high-temperature applications as in boiler rooms, and for use in areas of harsh, corrosive environments such as shipyards and off-shore oil platforms. They are made of type 316 stainless steel, and rated at 200 pound tensile strength. Smooth edges protect both the cable insulation and the installer.







WT3S

Stainless Steel Cable Ties

Cat. No.	Body Width (in.)	Length (in.)	Max. Wire Bundle Dia. (in.)	Tensile Strength (Ibs.)	Std. Pkg.	
TYS8	.310	10.65	2	200	100	
TYS14	.310	14.65	4	200	50	
TYS22	.310	22.65	6	200	50	
TYS28	.310	28.65	8	200	50	

Note: Use WT3S Tool for tensioning and cutoff.

• Cannot be coated with any covering material.

Stainless Steel Strap on a Reel				
Cat. No.	Description	Body Width (in.)	Tensile Strength (lbs.)	Std. Pkg.
TYS1000	1000 foot reel of strap	.310	200	1

Stainless steel ties of virtually any length can be produced from the 1000 foot reel in combination with the matching head. Note: Use WT3S tool for tensioning and cutoff.

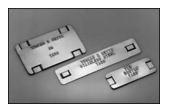
		Std.
Cat. No.	Description	Pkg.
TYS5200H	Heads only for stainless steel strap	50

Stainless St	eel Mounting Base	
Cat. No.	Description	Std. Pkg.
TCS25	Mounting base for stainless steel ties	50

Ty-Rap	o® Stainless Steel Tool		
Cat. No.	Description	Std. Pkg.	Wt. Each
WT3S	Stainless steel cable tie installing tool.	1	8 oz.



Ty-Rap[®] Customized Embossed Tags Stainless Steel Tape Embossing System



Identify your cable bundles with permanent, Type 304 stainless steel imprinted tags applied with stainless steel cable ties. After imprinting the tags, merely slip a tie through slots in the tag and fasten with the installation tool.

• Works with ¼" wide ties.



For imprinting Thomas & Betts stainless steel I.D. tags. Includes special tag holder which provides quick, accurate positioning of tag. Comes with a ½" character imprinting wheel, standard (no substitutions allowed).

After making your tag, apply with stainless steel cable ties.

I.D. Tag	iging System					
	W	/idth	Le	ength	W	eight
Cat. No.	in.	mm	in.	mm	lbs.	kg.
SSID100	.75	19.05	2.0	51	0.5	.22
SSID101	1.50	38.10	2.5	63	1.2	.55
SSID102	.75	19.05	3.5	89	0.8	.36

304 Stainless Steel

Packaging Quantity: 100/box

.015" (.254mm) Thickness

Note: Customized pre-embossed tags are available. Please consult Technical Service for details.

Add suffix (316) for 316 Stainless Steel.

I.D. Tag Imprinter					
		We	ight		
Cat. No.	Description	lbs.	kg.		
WTID200	I.D. Tag Imprinter	29.5	13.41		
WTID281	1/8" character imprinting wheel	-	-		
WTID283	3/16" character imprinting wheel	-	-		
WTID290	3/32" character imprinting wheel	-	-		

Packaging Quantity: 1/box

S.S. Tape Embossing System

		Weight		
Cat. No.	Description	lbs.	kg.	
WTID400	Hand-held tool for embossing S.S. I.D. Tape	2.57	1.17	
WTID405	Replacement S.S. tape (21' long)	.18	.01	

304 Stainless Steel

Packaging Quantity: 1/box

Note: The embossing tool comes complete with two rolls of stainless steel tape.



Ty-Rap° Stainless Steel I.D. Tag



The Thomas & Betts Stainless Steel R.D. Tagging System includes a complete range of individual letters, numbers, and symbols-slip them over carriers (shown above) or strips (below) and attach to your cable or hose with a variety of Thomas & Betts Stainless Steel Cable Ties.



Cat. No.	Description	Length	Width	Std. Pkg.	Wt. per 100
ER010	А	.445"	375"	100	.31
ER011	В	.445"	375"	100	.31
ER012	С	.445"	375"	100	.31
ER013	D	.445"	375"	100	.31
ER014	E	.445"	375"	100	.31
ER015	F	.445"	375"	100	.31
ER016	G	.445"	375"	100	.31
ER017	Н	.445"	375"	100	.31
ER018		.445"	375"	100	.31
ER019	J	.445"	375"	100	.31
ER020	К	.445"	375"	100	.31
ER021	L	.445"	375"	100	.31
ER022	М	.445"	375"	100	.31
ER023	N	.445"	375"	100	.31
ER024	0	.445"	375"	100	.31
ER025	Р	.445"	375"	100	.31
ER026	Q	.445"	375"	100	.31
ER027	R	.445"	375"	100	.31
ER028	S	.445"	375"	100	.31
ER029	T	.445"	375"	100	.31
ER030	U	.445"	375"	100	.31
ER031	V	.445"	375"	100	.31
ER032	W	.445"	375"	100	.31
ER033	Ŷ	.445"	375"	100	.31
ER034	Z	.445"	375"	100	.31
ER018	1	.445"	375"	100	.31
ER037	2	.445"	375"	100	.31
ER038	3	.445"	375"	100	.31
ER039	4	.445"	375"	100	.31
ER040	5	.445"	375"	100	.31
ER041	6	.445"	375"	100	.31
ER021	7	.445"	375"	100	.31
ER042	8	.445"	375"	100	.31
ER041	9	.445"	375"	100	.31
ER024	0	.445"	375"	100	.31
ER035	Minus/Hyphen	.445"	375"	100	.31
ER036	Blank	.445"	375"	100	.31
ER046	Plus +	.445"	375"	100	.31
ER047	Earth	.445"	375"	100	.31
ER048	Sine	.445"	375"	100	.31
ER049	Slash /	.445"	375"	100	.31

Character size .218"

Material .025 316 stainless steel

Thoma	s & Betts Stainle	ess Steel I	.D. Tag S	Strips/Ca	irriers	
Cat. No.	Description	Length	Width	Std. Pkg.	Wt. per 100	
ER043	6 Character Carrier	3.64"	.38"	100	.73	
ER044	10 Character Carrier	5.14"	.38"	100	1.25	
ER045	16 Character Carrier	7.39"	.38"	100	1.47	
ER050	Short Strip	4.25"	.38"	100	.98	
ER051	Medium Strip	5.75"	.38"	100	1.33	
ER052	Long Strip	8.0"	.38"	100	1.85	
ER060	I.D. Tag Kit	-	-	1	-	

I.D. Tag Kit contains 50 of each letter, number, symbol, carrier and strip in a handy carrying case.



J Ty-Rap[®]/Ty-Fast[®]

Ty-Rap° Stainless Steel Self-Locking Ties





Stainless Steel Ties With Roller Locking Mechanism

Thomas & Betts offers a line of self-locking, stainless steel ties for indoor and outdoor use. This low profile design features an internal locking roller and spring-tension head that ensures a secure fit.

Features and Benefits

- Spring feature provides extra snug fit in applications where bundle tightness is critical.
- Internal locking roller (Average slip, within the locking mechanism at 100 lb. load is 55% lower than conventional ball lock design).
- Rounded edges and smooth surfaces for fast, safe hand installation.
- Buckle length is 38% less and height is 24% less than the conventional ball locking design.

- 5 standard lengths with custom lengths available.Available in two grades of stainless steel
- Available in two grades of stainless steel (302/304 for standard applications and 316 for extra corrosion resistance).

Ideal Applications

- High temperature locations.
- Marine environment (ship building, salt water environment).
- Harsh environment (oil rigs, wash down areas, refineries, food processing plants, auto car washers).
- Automotive plants.

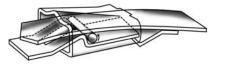


Ty-Rap®/Ty-Fast®

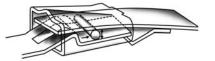
Application Tool DAS-250 Hand Tool (Adjustable tension,

automatic cut-off) Spare Blades Part No. BL250S

How It Works



Insert the tail into the buckle. The internal locking bar rolls freely as the tie is tightened.



Once the proper tension is reached the tool automatically cuts off the tail. The bar then wedges into the buckle locking it tightly against both the top and bottom of the band.

Ordering Information

			w:	446	Mey D	undle Die	Tom		
		ngth	Wi		Max. B	undle Dia.	Tens		Qty./box
Cat. No.	in.	mm.	in.	mm.	in.	mm.	lbs.	kg.	pcs.
802/304 Grade Stainless Steel									
TS-4.6-200A	8.8	222.9	0.18	4.6	2	50.8	150	68.0	100
TS-4.6-360A	15.3	388.0	0.18	4.6	4	101.6	150	68.0	100
TS-4.6-520A	21.3	540.4	0.18	4.6	6	152.4	150	68.0	100
FS-4.6-680A	27.8	705.5	0.18	4.6	8	203.2	150	68.0	100
FS-4.6-840A	33.8	857.9	0.18	4.6	10	254.0	150	68.0	100
316 Grade Stainless Steel									
TS-4.6-200B	8.8	222.9	0.18	4.6	2	50.8	150	68.0	100
TS-4.6-360B	15.3	388.0	0.18	4.6	4	101.6	150	68.0	100
TS-4.6-520B	21.3	540.4	0.18	4.6	6	152.4	150	68.0	100
ГS-4.6-680B	27.8	705.5	0.18	4.6	8	203.2	150	68.0	100
ГS-4.6-840B	33.8	857.9	0.18	4.6	10	254.0	150	68.0	100



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Roller Locking Mechanism vs. Ball Locking Mechanism

Characteristic	Self-Lok	Ball Lock
Rating (pounds)	150	100
Buckle Length (inch)	.260	.420
Height Over Buckle (inch)	.130	.170
Avg. Slip @ 100 Lb Load (inch)	.090	.200
Normal Mode of Failure	Cont. Slip	Loss of Ball
Buckle Retention	Smooth ID	Fold Under
Tie Length	Same	Same
Material	304 or 316 SS	304 or 316 SS



Unique Spring-Tension Head Design provides extra snug fit where bundle tightness is critical.

Ty-Rap[®] Stainless Steel Self-Locking Ties





DAS-250 Preset tension tool Automatic cut-off Spare Blades Part No. BL 250 S

Stainless Steel Ties with Ball Locking Mechanism

Thomas and Betts introduces a range of self-locking, one-piece stainless steel ties, suitable for indoor or outdoor use.

Wide range of sizes

Six standard lengths up to 41" long will cover most applications with custom lengths available. Two widths are offered with minimum loop tensile strengths of 100 and 250 lbs. Space requirements are minimized by the low head profile – 20" maximum.

Fast, Easy Installation

Thomas & Betts stainless steel ties are self-locking, requiring no time consuming crimping or folding operations. The strong locking mechanism, incorporating a steel ball, requires a low insertion force while the strap section has rounded edges and smooth surfaces making the ties ideal for fast, safe, hand installation.

Two Materials

Two grades of stainless steel are available – 302/304 for standard applications and 316 for extra corrosion resistance. 302/304 and 316 stainless steels are non-magnetic and are ideal for high temperature applications ranging –80 °C to 538 °C.

Applications

- High temperature locations
- Marine environment (shipbuilding, salt water environment)
- Harsh environment (oil rigs, wash-down areas, refineries, food processing plants, auto car washers)
- Automotive plants

	Length		Wi	dth	Max. Bu	ndle Dia.	Ten	sile	Qty./box
Cat. No.	in.	mm.	in.	mm.	in.	mm.	lbs.	kg.	pcs.
02/304 Grade Stainless Steel									
LS-4.6-200A	7.9	201.0	0.18	4.6	2	51	100	45.3	100
LS-4.6-360A	14.2	360.0	0.18	4.6	4	102	100	45.3	100
LS-4.6-520A	20.5	520.0	0.18	4.6	6	152	100	45.3	100
LS-4.6-680A	26.7	679.0	0.18	4.6	8	203	100	45.3	100
LS-4.6-840A	33.0	838.0	0.18	4.6	10	254	100	45.3	100
LS-7.9-200A	7.9	201.0	0.31	7.9	3	51	250	113.3	50
LS-7.9-360A	14.2	360.0	0.31	7.9	4	102	250	113.3	50
LS-7.9-520A	20.5	520.0	0.31	7.9	6	152	250	113.3	50
LS-7.9-680A	26.7	679.0	0.31	7.9	8	203	250	113.3	50
LS-7.9-840A	33.0	838.0	0.31	7.9	10	254	250	113.3	50
LS-7.9-1010A	41.3	1050.0	0.31	7.9	12.5	318	250	113.3	50
16 Grade Stainless Steel									
LS-4.6-200B	7.9	201.0	0.18	4.6	2	51	100	45.3	100
LS-4.6-360B	14.2	360.0	0.18	4.6	4	102	100	45.3	100
LS-4.6-520B	20.5	520.0	0.18	4.6	6	152	100	45.3	100
LS-4.6-680B	26.7	679.0	0.18	4.6	8	203	100	45.3	100
LS-4.6-840B	33.0	838.0	0.18	4.6	10	254	100	45.3	100
LS-7.9-200B	7.9	201.0	0.31	7.9	3	51	250	113.3	50
LS-7.9-360B	14.2	360.0	0.31	7.9	4	102	250	113.3	50
LS-7.9-520B	20.5	520.0	0.31	7.9	6	152	250	113.3	50
LS-7.9-680B	26.7	679.0	0.31	7.9	8	203	250	113.3	50
LS-7.9-840B	33.0	838.0	0.31	7.9	10	254	250	113.3	50
LS-7.9-1010B	41.3	1050.0	0.31	7.9	12.5	318	250	113.3	50



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The Deltec® Cable Support System

Provides a strong, long-life and cost saving method of securing communication cables

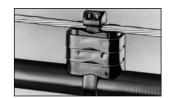
The Deltec® Cable Support System is a user-friendly product designed to provide ease and flexibility in fastening communications cables to messenger strand. It is equally well suited for copper conductor cable, coaxial cable, fiber optic cable and inner duct in aerial applications.

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

Deltec® cable straps are available in standard lengths of 10, 13.5, 16 and 27 inches, and in convenient 50 foot reels where specific lengths need to be established by the installer in the field. 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 retreading of 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 degrees and installed similar to a single cable, yet provide the same restricting features (unlike those commonly used today)
- Month and year of manufacture stamped into strap material.







Cable Tie with Double-Locking Head

Cat. No.	Body Width	Length (in.)	Max. Wire Bundle Dia. (in.)	Tensile Strength (lbs.)	Std. Pkg.	
TYD510M	.394	51.2	-	250		
TYD5135M	.500	13.5	3.5	250	25	
TYD5270M	.500	27.0	8.0	250	10	

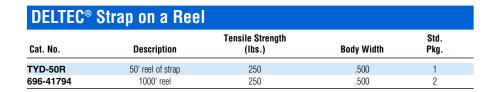
The recommended maximum continuous static loading for the DELTEC® straps is 20 lbs. per strap. For best results suggested spacing is 15 inches. It is the responsibility of the user to determine whether or not their application meets our recommendation. Note: Use WT3D Tool for tensioning and cutoff

SPECIFICATIONS

SPECIFICATION	Installation Range	
Strap and body	Dupont DELRIN [®] . Offers superior resistance to sunlight, moisture, and salt	Minimum Tensile Strength
	environments.	Outdoor Life
Locking Device	Marine grade corrosion-resistant silicon bronze.	Continuous Load

-30°E to 150°E 250 lbs. minimum.

Designed to last a minimum of 20 years 20 pounds





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Ty-Rap° Cable Ties-DELTEC®

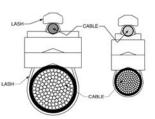




Material: Deltec®

Modular Stackable Cable Spacers

Cat. No.	Description	Std. Pkg.
TCP5255	Modular stackable spacer for DELTEC® straps	25
TCP360	For Coaxial Cable	-



Cat. No.

CSS-B

CSS-H

DELTEC® Base and Hanger

Made of zinc-plated steel
Secures cables to all types of surfaces

- One spacer for any cable size.Stackable for any desired spacing.
- Less inventory one catalog number.
- Made of weather-resistant polypropylene.

Std.

Pkg.

50

50

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Ty-Rap®/Ty-Fast®

• 1⁄2" high.



CSS-B CSS-H





Description

Base for Deltec® strap

Hanger for Deltec® strap



Installation/Cutting Tool						
Cat. No.	Description	Range	Std. Pkg.	Wt. Each		
WT3D	Installs self-locking Ty-Rap® cable ties and Thomas & Betts 2-piece lashing ties.	.184 thru .500	1	8 oz.		



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Ty-Rap[®] Hook and Loop Fasteners

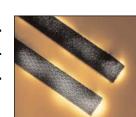


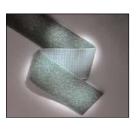






Ty-Rap®/Ty-Fast®







Available in these colors: Black, Brown, Red, Orange, Yellow, Green, Blue, Grey, & White. Please consult customer service for delivery and availability. These handy ties are very easy to release and re-use, making them ideal for applications where changes are anticipated or continuous access is required.

Features

NEW

- High quality Hook & Loop Fasteners designed specifically for Thomas & Betts.
- Contact Customer Service for availability and delivery.
 - Allows quick and convenient bundling of Category 5 & Fiber optic cables.
 - Multiple colors available for identifying specific bundles.
 - Sizes available to accommodate varying bundle diameters.
 - Screw and adhesive mounting bases provide multiple mounting options.

FO Series Loop Ties

Ideal for wrapping pre-determined bundle diameters because of the convenient slotted head

Now version available UL94V-2 rated material.

Cat. No.	Min. Tensile Strength	Max. Bundle Dia.	Length	Width	Inner Pack Qty.
FO200-40*	40lb	2.0"	9.0"	.50	10
FO200-50*	50lb	2.0"	9.0"	.75	10
FO350-40*	40lb	3.5"	13.0"	.50	10
FO350-50*	50lb	3.5"	13.0"	.75	10

FOL Series Buckle Ties

Buckle ties provide added strength and stability because of the high performance polymer buckle.

Cat. No.	Min. Tensile Strength	Max. Bundle Dia.	Length	Width	Inner Pack Qty.
FOL300-50-0	50lb	3.0"	12.0"	.75	10
FOL500-50-0	50lb	5.0"	18.0"	.75	10

FOS Series Strip Ties

Pre-cut lengths which makes bundling a cinch.

Cat. No.	Min. Tensile Strength	Max. Bundle Dia.	Length	Inner Pack Qty.
FOS150-50-0	50lb	1.5"	6.0"	10
FOS320-50-0	50lb	3.2"	12.0"	10
FOS500-50-0	50lb	5.0"	18.0"	10

FOR Series Rolled Hook and Loop

Rolled hook and loop allows customers to conveniently cut pieces to desired lengths, eliminating waste.

Cat. No.	Min. Tensile Strength	Max. Bundle Dia.	Length	Inner Pack Qty.
FOR180-50-0	50lb	Various	180"	1

Black is standard color * Add - "FR" for UL94V-2 rated material (after color).

Mounting Bases

Two mounting bases specifically designed for use with hook and loop fasteners

Cat. No.	Min. Tensile Strength	Max. Bundle Dia.	Length	Inner Pack Qty.
TC368	2"x 2" Screw mounted	#8	0.75"	500
TC368A	2"x 2" Adhesive mounted	#8	0.75"	500



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The heavy-duty lashing tie is made from weather-resistant nylon. The addition of carbon black provides good ultraviolet resistance and prolongs the useful life of the cable tie.





This lashing tie is ideally suited for chemical environments that are unsuitable for nylon. Strapping is made of black, weather-resistant polypropylene for outdoor use. Head is made of nylon 66.





Length 19"

Weather-Resistant Polypropylene Lashing Tie (releasable)												
Cat. No.	Body Width (in.)	Length (in.)	Maximum Wire Bundle Diameter (in.)	Tensile Strength (lbs.)	Std. Pkg.							
TY5418PX	.500	18	5	150	25							
TY5424PX	.500	24	7	150	25							
TY5442PX	.500	42	12	150	10							
TY5460PX	.500	60	18	150	10							



Many factors combine to determine the useful life of a cable tie and chemical exposure can be a very important consideration in certain situations. Polypropylene cable ties are ideally suited for chemical environments. It is black for outdoor use.

Weather-Resistant Polypropylene Hanger Lashing Tie (releasable)

Cat. No.	Body Width (in.)	Length (in.)	Maximum Wire Bundle Diameter (in.)	Tensile Strength (Ibs.)	Std. Pkg.
TY53418PX	.500	18	5	150	25



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Ty-Rap[®]/Ty-Fast[®]

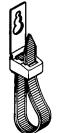
Ty-Rap[®] **Lashing Straps**



Ty-Rap®/Ty-Fast®

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



Weather-Resistant Nylon 12 Messenger Hanger Straps (releasable)

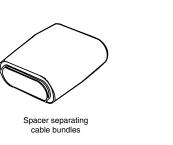
Cat. No.	Body Width (in.)	Length (in.)	Maximum Wire Bundle Diameter (in.)	Hook Material	Tensile Strength (Ibs.)	Std. Pkg.
TYM5412X	.500	12	3	Bronze	200	50
TYM5418X	.500	18	5	Bronze	200	25
TYM5423X	.500	24	7	Bronze	200	25
TYM5430X	.500	30	9	Bronze	200	25
TYM5436X	.500	36	11	Bronze	200	25
TYM5412X-S	.500	12	3	Stainless Steel	200	50
TYM5418X-S	.500	18	5	Stainless Steel	200	25
TYM5423X-S	.500	24	7	Stainless Steel	200	25
TYM5430X-S	.500	30	9	Stainless Steel	200	25
TYM5436X-S	.500	36	11	Stainless Steel	200	25

The recommended, maximum continuous static loading for the nylon 12 straps is 25 lbs. per strap. For best results suggested spacing is 15 inches. It is the responsibility of the user to determine whether or not their application meets our recommendation.

• Hook will accommodate 1/2" dia. messenger wire.

Messenger Hanger Spacer





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.

13	

Weather-Resistant Nylon 12 Hanger Strap (releasable) Maximum Wire Body Tensile Width Length **Bundle Diameter** Strength Std. Hook

(in.)	(in.)	(in.)	Material	(lbs.)	Pkg.
.500	6.36	2	Steel	200	50
.500	13.75	4	Steel	200	25
	.500	.500 6.36	.500 6.36 2	.500 6.36 2 Steel	.500 6.36 2 Steel 200

The recommended, maximum continuous static loading for the nylon 12 straps is 25 lbs. per strap. For best results suggested spacing is 15 inches. It is the responsibility of the user to determine whether or not their application meets our recommendation.

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



Ty-Rap[®]

Cable Ties-Material Selection Ordering Guide

Table 2-Physical Properties of Ty-Rap® Cable Tie Materials Weather Heat Stabilized Flame Weather Weather Resistant 66 Natural 66 Natural 66 Retardant 66 Weatherable Resistant Resistant Stainless Nylon Nylon Nylon Nylon Acetal Nylon 12 Polypropylene Tefzel 2 Halar 3 Steel Tensile Strength (Yield) @ 73º F (Dry-As-Molded)1 12,000 12,000 12,000 11,000 10,000 7500 4600 6,700 6,600 90,000 psi UL94V-2 UL94V-2 UL94V-2 UL94V-0 UL94HB Flammability Rating UL94V-0 UL94V-0 ----Radiation Resistance 1 x 10⁵ 1 x 10⁵ 1 x 10⁶ 1 x 10⁵ 1 x 10⁵ 2 x 10^₅ rads 1 x 10⁵ 1 x 10⁵ 2 x 10⁸ 2 x 10⁶ 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 <0.1 None % Oxygen Index 28 28 31 34 21 30 52 185 /85 185 /85 221 / 105 185 /85 176 / 80 284 / 140 1000 / 537 Max. Continuous Use Temperature F/C 185 /85 185 /85 302 / 150 Min. Continuous Use Temperature F/C -40 / -40 -40 / -40 -40 / -40 -40 / -40 -40 / -40 -40 / -40 -40 / -40 -50 / -46 -50 / -46 -112/ White Black Natural Black Green tint Black Black Maroon Stainless Color Aqua -

1. ASTM D638-878 except stainless steel which is ASTME8

2. Tefzel is a trademark of E.I. DuPont deNemours and Company

3. Halar is a trademark of Solvay Slexis, Inc.

J Ty-Rap®/Ty-Fast®



Flammability ratings for selecting Ty-Rap[®] cable ties

Note: Flammability ratings of Ty-Rap® cable tie materials are shown in Table 2. 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" x $\frac{1}{2}$ ", 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" 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" 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" 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.



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Chemical resistance

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-Resistance of Available Materials to Various Chemicals Temp 70°F

		Heat- Stabilized 6/6 Nylon as Used in TYH			Standard 6/6 Nylon as Used in TY	Nylon as Used in TY	Retardant Nylon as Used in TY	Nylon 12 as Used in TYC	ТҮР	as Used in TYP	Tefzel* as Used in TYZ	
Reagents	Concentration	Series	Series	Series	Series	X Series	FR Series	X Series	Series	X Series	Series	Series
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	All	-	E	-	-	-	-	E	E	E	Е	
Ammonium Carbonate	5%	S	E	_	S	S	S	E	E	E	E	E
Ammonium Hydroxide	10%	E	Е	F	E	E	Е	-	E	E	Е	E
Ammonium Nitrate	-	_	E	_	_	_	-	Е	E	Е	E	Е
Ammonium Sulfate	10%	_	Е	_	_	_	-	S	S	S	S	S
Barium Carbonate	All	_	E	-	_	-	_	Ē	E	E	E	E
Barium Chloride	5%	NR	-	_	NR	NR	NR	E	Ē	E	Ē	E
Barium Sulfate	10%	E		_	E	E	E	Ē	Ē	Ē	Ē	E
Barium Sulfide	10%	S		_	S	S	S	Ē	Ē	E	Ē	Ē
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		Ē	E	Ē	E
Calcium Carbonate	AQ	-	E	_	-		_	_	Ē	E	с L	E
Calcium Hydroxide	20%		F	E		_		-	E	E	E	E
		-	Г		-		-	-				
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	-	-	Е	-	-	-	-	-	E	E	E	E
Dichloroethane	100%	_	E	_	-	_	-	-	_	_	Ē	E
Diethyl Ether	100%	_	Ē	S	_	_	_	Е	Е	E	Ē	E
Ethyl Alcohol	100%	S	Ē	_	S	S	S	Ē	Ē	E	Ē	Ē

* Trademark of E.I. DuPont deNemours and Company

⁺ Trademark of Ausimont

Ratings

 $\mathbf{E} = Excellent$

 $\mathbf{S} = \text{Satisfactory}$

F = Fair

NR = Not Recommended

(AQ = Aqueous)



Table 3-continued

		Heat- Stabilized 6/6 Nylon as Used in TYH			Standard 6/6 Nylon as Used in TY	Nylon as Used in TY	6/6 Fire- Retardant Nylon as Used in TY	Nylon 12 as Used in TYC	ТҮР	as Used in TYP	Tefzel* as Used in TYZ	
Reagents	Concentration	n Series	Series	Series	Series	X Series	FR Series	X Series	Series	X Series	Series	Series
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	All	-	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	All	-	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
lodoform	100%	-	E	-	-	-	-	-	-	-	E	E
Isopropyl Alohol	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	Е	-	E	E	Е	S	E	E	E	E
Lanolin	10%	E	Е	-	E	E	Е	E	E	E	E	E
Lead Acetate	5%	-	Е	-	-	-	-	-	E	E	Е	E
Linseed Oil	10%	E	Е	E	E	E	Е	E	E	E	Е	E
Magnesium Carbonate	All	-	E	-	-	-	-	E	E	E	E	E
Magnesium Chloride	10%	F	-	-	F	F	F	F	F	F	F	F
Magnesium Nitrate	All	-	E	-	-	-	_	E	E	E	E	E
Malic Acid	AQ	_	Е	_	_	_	-	-	E	E	Ε	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	Е	Е
Methyl Ethyl Ketone	100%	_	Е	F	_	_	-	E	E	Е	E	Е
Naptha	100%	_	E	_	_	-	-	_	E	Е	E	Е
Nitric Acid	30%	NR	Е	NR	NR	NR	NR	_	E	Е	Е	Е
Nitric Acid	30-70%	NR	S	NR	NR	NR	NR	-	F	F	S	E
Nitrous Acid	5%	-	E	-	-	-	-	-	F	F	E	E
Oieic Acid	100%	_	E	S	-	-	-	-	E	E	E	E
Oxalic Acid	10%	_	E	-	-	-	-	S	Ē	E	E	E
Paraffin	100%	E	E	-	E	Е	E	E	Ē	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	-	Ē	E	E	E
Picric Acid	1%	_	Ē	-	-	-	-	-	Ē	Ē	Ē	Ē
Potassium Bromide	AQ	_	_	_	_	_	_	_	S	S	S	S



Table 3-continued

	s	Heat- Stabilized 6/6 Nylon as	Halar† as	Weatherable Acetal as	Standard 6/6 Nylon as	6/6 Weather- Resistant Nylon as	6/6 Fire- Retardant Nylon as	Weather- Resistant Nylon 12 as	Polypropylene as Used in		ne	Stainless Steel as Used
				Used in TYD	Used in TY	Used in TY	Used in TY	Used in TYC		TYP	Used in TYZ	
Reagents	Concentratior	Series	Series	Series	Series	X Series	FR Series	X Series	Series	X Series	Series	Series
Potassium Carbonate 1%	-	E	-	-	-	-	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	All	-	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	-	-	_	_	_	Е	E	Е	E
Propyl Alcohol	100%	E	E	_	E	E	E	-	E	E	Ē	E
Silver Nitrate	100 %	_	E	_	-	-	-	E	E	E	Ē	E
Sodium Acetate	60%	E	E	_	E	E	E	_	E	E	E	E
Sodium Bicarbonate	All	E	E	_	E	E	E	E	E	E	Ē	E
Sodium Bisulfate	10%		E	E				E	E	E	Ē	E
Sodium Bisunale Sodium Borate		_	E	E	-	_	_	E _	E	E	E	E
	All	E	E	S	E	E	E	E	E	E	E	E
Sodium Carbonate	5%											
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	Е	-	S	Е	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	All	NR	Е	_	NR	NR	NR	E	E	E	Е	Е
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
Fannic Acid	10%	-	Ē	_	-	_	-	_	Ë	Ë	Ë	Ë
Fartaric Acid	50%	_	E	E	_	_	_	E	E	E	E	E
Tetrahydrofuran	100%	_	F	E	_	_	_	S	F	F	Ē	E
Foluene	100 %	E	E	F	E	E	E	E	F	F	Ē	F
			E	F _		E		E	F	F	E	
Kylene Zia a Oblasiala	100%	E	-		E		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

* Trademark of E.I. DuPont deNemours and Company

⁺ Trademark of Ausimont

Ratings

E = Excellent

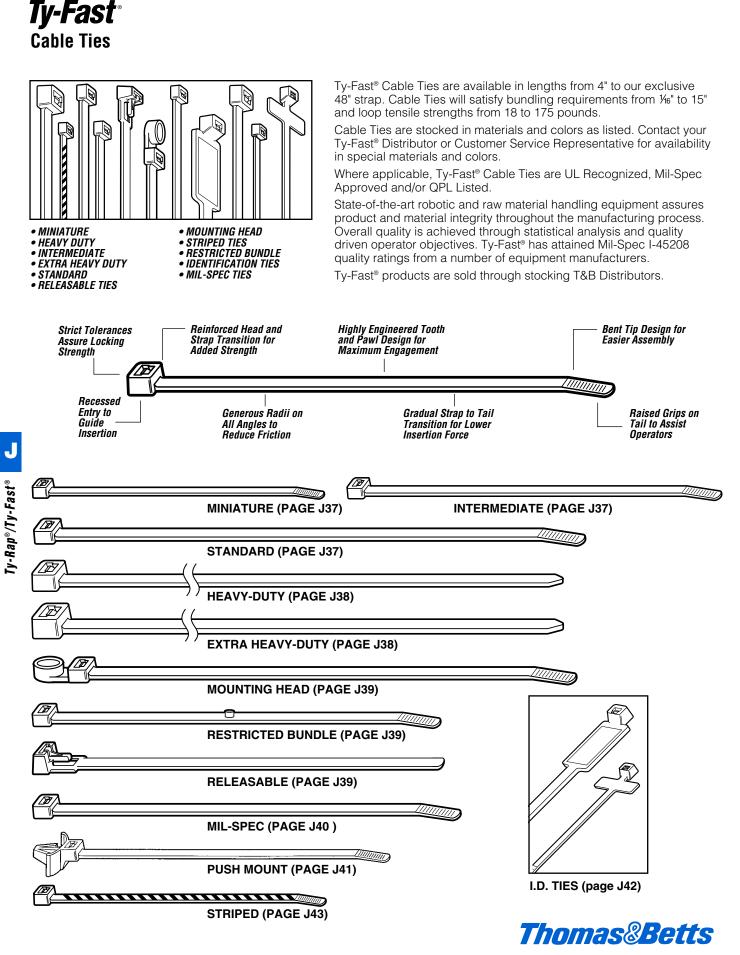
S = Satisfactory

F = Fair

 $\mathbf{NR} = Not Recommended$

(AQ = Aqueous)

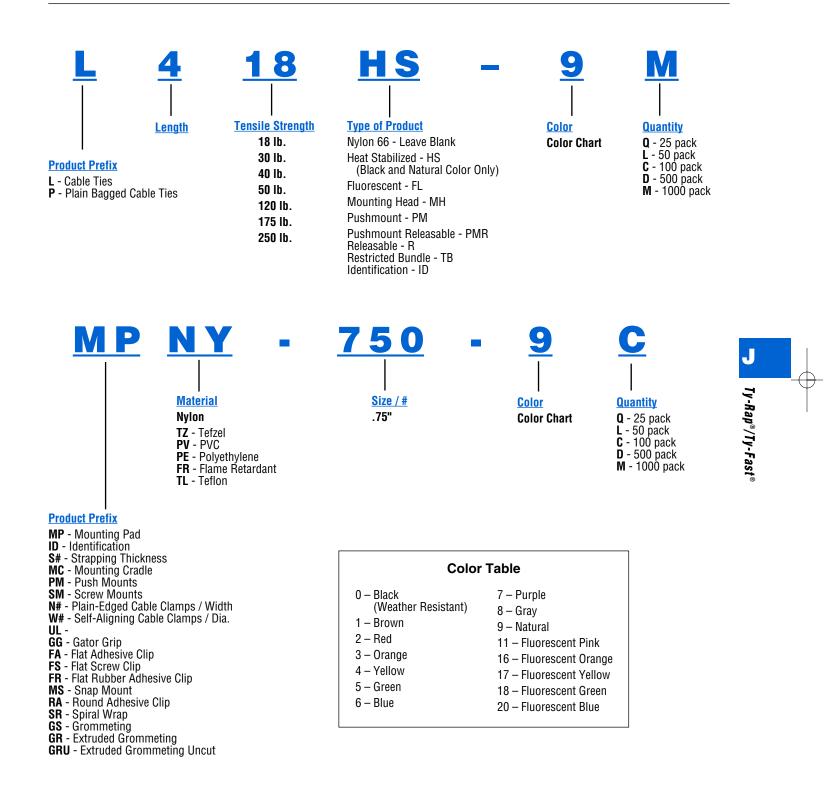




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Part Number Construction





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Ty-Fast° Cable Ties

Materials for Molded Assembly Hardware

	ASTM			Molded 6/6	Heat Stabilized	UV Black
Property	Method	Test Condition	Units	Nylon	Nylon	Nylon
Tensile Strength	D638	+73°F; 50% RH	kpsi	11.2	11.2	9.0
Elongation at Break	D638	+73°F; 50% RH	%	≥300	≥300	200
Yield Strength	D638	+73°F; 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 +122°F; DAM	%	1.4	1.4	1.2
IZOD Impact	D256	+73°F; 50% RH	ft lb/in	2.1	2.1	2.0
Tensile Impact Strength	D1822	+73°F; Long Specimen; DAM	ft Ib/in²	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 . ft ² . °F	1.7	1.7	1.7
Brittleness Temperature	D746	50% RH	°F	-85	-85	-62
Oxygen Index	D2863	DAM 50% RH	%0 ₂	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 ¼" 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 Ty-Fast® Customer Service Representative or your Ty-Fast® Distributor for chemical data relative to your application.

Nylon is inherently susceptible to environmental conditions. Ty-Fast® 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.

NBS Smoke Generation for 6/6 Nylon

			Specific Optical Density					
Sample Thickness	UL Flammability	Energy Source	at Maximum Smoke Accumulation	at 2 Minutes				
1⁄16"	94 V-2	Radiant	13	0				
		(2.5 watts/sq cm)						
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.

Temperature Index for Molded Nylons

		Tempera	Temperature Index					
Material	Minimum Thickness (in)	Electrical (°C)	Mechanical w/o Impact (°C)	Hot Wire Ignition (sec)				
6/6 Nylon	.058	125	85	15.0				
UV Black	.120	125	85	35.0				
Nylon	.240	125	85	35.0				
Heat	.058	130	105	11.0				
Stabilized Nylon	.120	130	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.



Miniature – Series 18

Std.	Bulk			Bun Diam		Ler	igth	Wi	dth		nimum Tensile	Std.	Bulk
Cat. No.	Cat. No.	Material	Color	Inch	(mm)	Inch	(mm)	Inch	(mm)	LB	(kg)	Pkg.	Pkg.
L-4-18-9-C	L-4-18-9-M	Nylon	Natural	1⁄16 - 5⁄8	(2-16)	4.0	(102)	.100	(3)	18	(8.2)	100	1000
L-4-18-0-C	L-4-18-0-M	Nylon	Black	1⁄16 - 5⁄8	(2-16)	4.0	(102)	.100	(3)	18	(8.2)	100	1000
L-6-18-9-C	L-6-18-9-M	Nylon	Natural	11/16 - 11/2	(2 - 38)	6.4	(163)	.100	(3)	18	(8.2)	100	1000
L-6-18-0-C	L-6-18-0-M	Nylon	Black	11/16 - 11/2	(2 - 38)	6.4	(163)	.100	(3)	18	(8.2)	100	1000
L-8-18-9-C	L-8-18-9-M	Nylon	Natural	1⁄16 - 2	(2 - 51)	8.0	(202)	.100	(3)	18	(8.2)	100	1000
L-8-18-0-C	L-8-18-0-M	Nylon	Black	1⁄16 - 2	(2 - 51)	8.0	(202)	.100	(3)	18	(8.2)	100	1000

• Use QC-100, L-200, L-400-C, or ERG-299 Installation Tools.

Consult Customer Service for availability and colors.

Intermediate - Series 30

Std.	Bulk				ndle neter	Lei	ngth	Wi	dth		nimum Tensile	Std.	Bulk
Cat. No.	Cat. No.	Material	Color	Inch	(mm)	Inch	(mm)	Inch	(mm)	LB	(kg)		Pkg.
L-5-30-9-C	L-5-30-9-M	Nylon	Natural	1⁄16 - 11⁄4	(2 - 32)	5.6	(145)	.130	(3)	30	(13.6)	100	1000
L-5-30-0-C	L-5-30-0-M	Nylon	Black	1⁄16 - 11⁄4	(2 - 32)	5.6	(145)	.130	(3)	30	(13.6)	100	1000
L-8-40-9-C	L-8-40-9-M	Nylon	Natural	1⁄16-2	(2-51)	8.5	(215)	.140	(3)	40	(18.2)	100	1000
L-8-40-0-C	L-8-40-0-M	Nylon	Black	1⁄16-2	(2-51)	8.5	(215)	.140	(3)	40	(18.2)	100	1000
L-11-40-9-C	L-11-40-9-D	Nylon	Natural	1⁄16-3	(2-76)	11.5	(282)	.146	(4)	40	(18.2)	100	500
L-11-40-0-C	L-11-40-0-D	Nylon	Black	1⁄16-3	(2-76)	11.5	(282)	.146	(4)	40	(18.2)	100	500
L-14-40-9-C	L-14-40-9-D	Nylon	Natural	1⁄16-4	(2-102)	14.5	(358)	.146	(4)	40	(18.2)	100	500
L-14-40-0-C	L-14-40-0-D	Nylon	Black	1⁄16-4	(2-102)	14.5	(358)	.146	(4)	40	(18.2)	100	500

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Standard - Series 50

Std.	Bulk				ndle neter	Ler	ngth	Wi	dth		nimum Tensile	Std.	Bulk
Cat. No.	Cat. No.	Material	Color	Inch	(mm)	Inch	(mm)	Inch	(mm)	LB	(kg)	Pkg.	Pkg.
L-5-50-9-C	L-5-50-9-M	Nylon	Natural	1⁄16-1	(2-25)	5.5	(140)	.187	(5)	50	(22.7)	100	1000
L-5-50-0-C	L-5-50-0-M	Nylon	Black	1⁄16-1	(2-25)	5.5	(140)	.187	(5)	50	(22.7)	100	1000
L-7-50-9-C	L-7-50-9-M	Nylon	Natural	1⁄16-13⁄4	(2-44)	7.5	(193)	.187	(5)	50	(22.7)	100	1000
L-7-50-0-C	L-7-50-0-M	Nylon	Black	1⁄16-13⁄4	(2-44)	7.5	(193)	.187	(5)	50	(22.7)	100	1000
L-11-50-9-C	L-11-50-9-D	Nylon	Natural	1⁄16-3	(2-76)	11.1	(282)	.187	(5)	50	(22.7)	100	500
L-11-50-0-C	L-11-50-0-D	Nylon	Black	1⁄16-3	(2-76)	11.1	(282)	.187	(5)	50	(22.7)	100	500
L-14-50-9-C	L-14-50-9-D	Nylon	Natural	1⁄16-4	(2-102)	14.1	(358)	.187	(5)	50	(22.7)	100	500
L-14-50-0-C	L-14-50-0-D	Nylon	Black	1⁄16-4	(2-102)	14.1	(358)	.187	(5)	50	(22.7)	100	500

• Use QC-100, L-200, L-400-C, or ERG-299 Installation Tools.

Consult Customer Service for availability and colors.

Sample Catalog Order:

L 4	<u>189</u>	<u>C</u>	Natural Color Type
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	Color Tab	ble
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 – Gray	18 – Fluorescent Green
4 – Yellow	9 – Natural	20 – Fluorescent Blue



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Heavy Duty - Series 120

Induly Duty											
Std.			Bundle Diameter		Len	Length		Width		Minimum Loop Tensile	
Cat. No.	Material	Color	Inch	(mm)	Inch	(mm)	Inch	(mm)	LB	(kg)	Pkg.
L-8-120-9-C	Nylon	Natural	3∕16-2	(5-51)	8.0	(202)	.300	(8)	120	(54.4)	100
L-8-120-0-C	Nylon	Black	3⁄16-2	(5-51)	8.0	(202)	.300	(8)	120	(54.4)	100
L-11-120-9-C	Nylon	Natural	3⁄16-3	(5-76)	11.1	(282)	.300	(8)	120	(54.4)	100
L-11-120-0-C	Nylon	Black	3⁄16-3	(5-76)	11.1	(282)	.300	(8)	120	(54.4)	100
L-14-120-9-C	Nylon	Natural	3∕16-4	(5-102)	14.2	(363)	.300	(8)	120	(54.4)	100
L-14-120-0-C	Nylon	Black	3⁄16-4	(5-102)	14.2	(363)	.300	(8)	120	(54.4)	100
L-18-120-9-L	Nylon	Natural	3⁄16-47⁄8	(5-124)	18.0	(457)	.300	(8)	120	(54.4)	50
L-18-120-0-L	Nylon	Black	3⁄16-47⁄8	(5-124)	18.0	(457)	.300	(8)	120	(54.4)	50
L-24-120-9-L	Nylon	Natural	3⁄16-7	(5-178)	24.2	(616)	.300	(8)	120	(54.4)	50
L-24-120-0-L	Nylon	Black	3⁄16-7	(5-178)	24.2	(616)	.300	(8)	120	(54.4)	50
L-28-120-9-L	Nylon	Natural	3⁄16-9	(5-230)	28.0	(816)	.300	(8)	120	(54.4)	50
L-28-120-0-L	Nylon	Black	3⁄16-9	(5-230)	28.0	(816)	.300	(8)	120	(54.4)	50

• Use L-300C or ERG-297 Installation Tool. Consult Customer Service for availability and colors.

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Extra Heavy Duty - Series 175

Std.				ndle neter	Len	igth	W	idth		imum Tensile	Std.
Cat. No.	Material	Color	Inch	(mm)	Inch	(mm)	Inch	(mm)	LB	(kg)	Pkg.
L-24-175-9-L	Nylon	Natural	3⁄16-7.2	(5-184)	24.0	(612)	.345	(9)	175	(79.3)	50
L-24-175-0-L	Nylon	Black	3⁄16-7.2	(5-184)	24.0	(612)	.345	(9)	175	(79.3)	50
L-34-175-9-L	Nylon	Natural	3⁄16-10	(5-254)	34.0	(864)	.345	(9)	175	(79.3)	50
L-36-175-9-L	Nylon	Natural	2¾-10¾	(70-273)	36.0	(914)	.345	(9)	175	(79.3)	50
L-36-175-0-L	Nylon	Black	2¾-10¾	(70-273)	36.0	(914)	.345	(9)	175	(79.3)	50
L-41-175-9-L	Nylon	Natural	3⁄16-12	(5-305)	41.0	(1032)	.345	(9)	175	(79.3)	50
L-41-175-0-L	Nylon	Black	3⁄16-12	(5-305)	41.0	(1032)	.345	(9)	175	(79.3)	50
L-48-175-9-L	Nylon	Natural	3⁄16-15	(5-375)	48.0	(1216)	.345	(9)	175	(79.3)	50
L-48-175-0-L	Nylon	Black	3⁄16-15	(5-375)	48.0	(1216)	.345	(9)	175	(79.3)	50

• Use L-300C Installation Tool. Consult Customer Service for availability and colors.

Sample Catalog Order:

L <u>4</u> <u>18</u> <u>9</u> **C** = Natural Color Type

	Color Tal	ble
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 – Gray	18 – Fluorescent Green
4 – Yellow	9 – Natural	20 – Fluorescent Blue



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Mounting Head Ties

Std.	Cat. No.			Bundle Diameter Length W		Wi	Minimum Width Loop Tensile			Mounting Head	Std.	Bulk		
Cat. No.	Bulk	Material	Color	Inch	(mm)	Inch	(mm)	Inch	(mm)	LB	(kg)	Screw Size	Pkg.	Pkg.
L-5-30MH-9-C	L-5-30MH-9-M	Nylon	Natural	1⁄16 - 11⁄4	(2 - 32)	5.85	(148.6)	.140	(4)	30	(13.6)	No. 8	100	1000
L-5-30MH-0-C	L-5-30MH-0-M	Nylon	Black	1⁄16 - 11⁄4	(2 - 32)	5.85	(148.6)	.140	(4)	30	(13.6)	No. 8	100	1000
L-7-50MH-9-C	L-7-50MH-9-M	Nylon	Natural	1⁄16 - 13⁄4	(2 - 44)	7.5	(191)	.185	(5)	30	(13.6)	No. 10	100	1000
L-7-50MH-0-C	L-7-50MH-0-M	Nylon	Black	1⁄16 - 13⁄4	(2 - 44)	7.5	(191)	.185	(5)	30	(13.6)	No. 10	100	1000
L-11-50MH-9-C	L-11-50MH-9-D	Nylon	Natural	1⁄16 - 3	(2 - 76)	11.1	(282)	.187	(5)	50	(22.7)	No. 10	100	500
L-11-50MH-0-C	L-11-50MH-0-D	Nylon	Black	1⁄16 - 3	(2 - 76)	11.1	(282)	.187	(5)	50	(22.7)	No. 10	100	500
L-14-50MH-9-C	L-14-50MH-9-D	Nylon	Natural	1⁄16 - 4	(2 - 102)	14.5	(365)	.187	(5)	50	(22.7)	No. 10	100	500
L-14-50MH-0-C	L-14-50MH-0-D	Nylon	Black	1⁄16 - 4	(2 - 102)	14.5	(365)	.187	(5)	50	(22.7)	No. 10	100	500
L-14-120MH-9-C		Nylon	Natural	¾ ₁₆ - 4	(5 - 102)	14.85	(374)	.300	(8)	120	(54.4)	1⁄4 inch	100	-
L-14-120MH-0-C		Nylon	Black	¾ ₆ - 4	(5 - 102)	14.85	(374)	.300	(8)	120	(54.4)	1/4 inch	100	-

• Use QC-100, L-200, L-400-C, ERG-297, or ERG-299 Installation Tool. Consult Customer Service for availability and colors.

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Restricted Bundle

Std.	Cat. No.			Bun Diam		Lei	ngth	W	idth		iimum Tensile		Tab eight	Std.	Bulk
Cat. No.	Bulk	Material	Color	Inch	(m _m)	Inch	(mm)	Inch	(mm)	LB	(kg)	Inch	(mm)	Pkg.	Pkg.
TB-5-30TB-3-M		Nylon	Orange	² 1⁄32 - 11⁄4	(17 - 32)	5.6	(142)	.130	(3)	30	(13.6)	.062	(1.58)	-	1000
	-box, security and temp -400-C, or ERG-299 In:	oorary applications. stallation Tools on Low	settina. Consi	ult Customer S	ervice for avai	lability an	d colors.								
- 030 Q0 100, E 200, E	400 0, 01 ENG 233 III.		Soung. Const			aonity an	0.001013.								

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Releasable Ties

Std.	Bundle Diameter Length						dth		Minimum Loop Tensile		Bulk		
Cat. No.	Bulk	Material	Color	Inch	(mm)	Inch	(mm)	Inch	(mm)	LB	(kg)	Pkg.	Pkg.
L-5-50R-9-C	L-5-50R-9-D	Nylon	Natural	1⁄8 - 1 1⁄4	(3 - 32)	5.9	(150)	.295	(7.5)	50	(22.7)	100	500
L-5-50R-0-C	L-5-50R-0-D	Nylon	Black	1⁄8 - 1 1⁄4	(3 - 32)	5.9	(150)	.295	(7.5)	50	(22.7)	100	500
L-8-50R-9-C	L-8-50R-9-D	Nylon	Natural	1⁄8 - 2	(3 - 51)	7.8	(198)	.295	(7.5)	50	(22.7)	100	500
L-8-50R-0-C	L-8-50R-0-D	Nylon	Black	1⁄8 - 2	(3 - 51)	7.8	(198)	.295	(7.5)	50	(22.7)	100	500
L-10-50R-9-C	L-10-50R-9-D	Nylon	Natural	1⁄8 - 3	(3 - 76)	11.265	(286)	.295	(7.5)	50	(22.7)	100	500
L-10-50R-0-C	L-10-50R-0-D	Nylon	Black	1⁄8 - 3	(3 - 76)	11.265	(286)	.295	(7.5)	50	(22.7)	100	500

Push Button Release.
 Use QC-100, L-200, L-400-C, ERG-297, ERG-299 Installation Tool. Consult Customer Service for availability and colors.

	0 – Black (Outdoor) 1 – Brown	5 – Green 6 – Blue
Sample Catalog Order:	2 – Red	7 – Purple
L 4 18 9 C = Natural Color Type	3 – Orange 4 – Yellow	8 – Gray 9 – Natural



11 – Fluorescent Pink

16 – Fluorescent Orange 17 – Fluorescent Vellow 18 – Fluorescent Green 20 – Fluorescent Blue

Color Table

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Ty-Fast® 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.

	MINIATURE						
	INTERMEDIATE						
	STANDARD						
	((
	HEAVY DUTY))	ι	Jse L-300C Tool			
Mil-Spe	c Cable Ties						
Mil-Spec	Std. Cat. No.	Bulk Cat. No.	Material	ID Code	Tool Setting	Std. Pkg.	Bu Pk
MS-3367-2-9	L-14-50-9-C	L-14-50-9-D	Natural Nylon	STD	6 to 8	100	50
MS-3367-2-0	L-14-50-0-C	L-14-50-0-D	UV Black Nylon	STD	6 to 8	100	50
MS-3367-3-9	L-14-120-9-C	_	Natural Nylon	HVY	5 to 8	100	-
MS-3367-3-0	L-14-120-0-C	-	UV Black Nylon	STD	6 to 8	100	-
MS-3367-4-9	L-4-18-9-C	-	Natural Nylon	MIN	1 to 3	100	-
MS-3367-4-0	L-4-18-0-C	-	UV Black Nylon	MIN	1 to 3	100	-
MS-3367-5-9	L-5-30-9-C		Natural Nylon	INT	3 to 5	100	-
MS-3367-5-0	L-5-30-0-C	-	UV Black Nylon	INT	3 to 5	100	-
MS-3367-7-9	L-11-50-9-C	L-11-50-9-D	Natural Nylon	STD	6 to 8	100	50
MS-3367-7-0	L-11-50-0-C	L-11-50-0-D	UV Black Nylon	STD	6 to 8	100	50
MS-3367-6-9	L-28-120-9-L	-	Natural Nylon	HVY	5 to 8	50	-
MS-3367-6-0	L-28-120-0-L	-	UV Black Nylon	HVY	5 to 8	50	-
 Use L-200, L-4i Installation Too Ty-Fast® FSCM QPL Listed 		• UL File No. E Electrical Co Spiral Wrap • UL File No. E Wire Connec	onstruction Materials 132609	• UL File No. E107819 Fabricated Parts Fasteners and Har Material Traceabi		To assure that milita requirements are n ordering MIL-SPEC (please reference the number when or	net when Cable Tie desired N
Sample Catalog	j Order: 9 C = Natural Colo	ur Type		0 – Black (Outdoor) 1 – Brown 2 – Red 3 – Orange 4 – Yellow	Color T a 5 – Green 6 – Blue 7 – Purple 8 – Gray 9 – Natural	able 11 – Fluorescent 16 – Fluorescent 17 – Fluorescent 18 – Fluorescent 20 – Fluorescent	Orange Yellow Green



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Push Mount Cable Ties

Std.	Cat. No.	Tie	Stripe	Bur Dian		Lei	ngth	Wi	dth		imum Tensile	Std.	Bulk
Cat. No.	Bulk	Color	Color	Inch	(mm)	Inch	(mm)	Inch	(mm)	LB	(kg)	Pkg.	Pkg.
L-5-50PM-9-C	L-5-50PM-9-D	Nylon	Natural	1⁄16 - 1	(2-25)	5.8	(147)	.187	(4.76)	50	(22.7)	100	500
L-5-50PM-0-C	L-5-50PM-0-D	Nylon	Black	1⁄16 - 1	(2-25)	5.8	(147)	.187	(4.76)	50	(22.7)	100	500
L-7-50PM-9-C	L-7-50PM-9-D	Nylon	Natural	1⁄16 - 13⁄4	(2-44)	8.2	(208)	.187	(4.76)	50	(22.7)	100	500
L-7-50PM-0-C	L-7-50PM-0-D	Nylon	Black	1⁄16 - 13⁄4	(2-44)	8.2	(208)	.187	(4.76)	50	(22.7)	100	500

For use in .250 mounting hole.
Maximum panel thickness .105.

Consult Customer Service for availability and colors.

Releasable Push Mount Cable Ties

Std.	Cat. No.	Tie	Stripe	Bur Dian		Lei	ngth	Wi	dth		imum Tensile	Std.	Bulk
Cat. No.	Bulk	Color	Color	Inch	(mm)	Inch	(mm)	Inch	(mm)	LB	(kg)	Pkg.	Pkg.
L-5-50PMR-9-C	L-5-50PMR-9-D	Nylon	Natural	1⁄16 - 1	(2-25)	5.8	(147)	.187	(4.76)	50	(22.7)	100	500
L-5-50PMR-0-C	L-5-50PMR-0-D	Nylon	Black	1⁄16 - 1	(2-25)	5.8	(147)	.187	(4.76)	50	(22.7)	100	500
L-7-50PMR-9-C	L-7-50PMR-9-D	Nylon	Natural	1⁄16 - 13⁄4	(2-44)	8.2	(208)	.187	(4.76)	50	(22.7)	100	500
L-7-50PMR-0-C	L-7-50PMR-0-D	Nylon	Black	1⁄16 - 13⁄4	(2-44)	8.2	(208)	.187	(4.76)	50	(22.7)	100	500

For use in .250 mounting hole.
Maximum panel thickness .105.

Consult Customer Service for availability and colors.

Ty-Rap[®]/Ty-Fast[®]

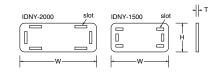
91







- Two tags for marking bundles to 9" diameters.
- Run ties through opposing mounting holes lengthwise or across the height of tags.
- IDNY-1500 accepts ties to 50 pound tensile; IDNY-2000 accepts ties to 120 pound tensile.
- Stocked in 6/6 Natural Nylon.
- UL Flammability 94 V-2.
- Non-Conductive, Non-Corrosive; resistant to fuels, lubricants and most chemicals.



Identification Tags

Std.	Bulk		H ight	V Wie	-	Thick	r (ness	SI Hei			lot dth	Std.	Bulk
Cat. No.	Cat. No.	Inch	(mm)	Inch	(mm)	Inch	(mm)	Inch	(mm)	Inch	(mm)	Pkg.	Pkg.
-	IDNY-1500-9-M	.745	(18.92)	1.500	(38.08)	.015	(.381)	.090	(2.29)	.200	(5.08)	_	1000
-	IDNY-2000-9-M	.745	(18.92)	2.000	(50.78)	.025	(.653)	.113	(2.87)	.336	(8.53)	_	1000
	Tolerance ±	.015	(.381)	.030	(.762)	.005	(.127)	-	.010	(.254)	-	_	-

• Matte finish for sharp legends.

(Alt

Consult Customer Service for availability and colors.

	///////////////////////////////////////
 Plate Dimensions: .312 x .973 	

Plate Dimensions: .312 x .973

Identification Ties

Std.	Bulk				Bundle meter	Lei	ngth	Wi	dth		imum Tensile	Std.	Bulk
Cat. No.	Cat. No.	Material	Color	Inch	(mm)	Inch	(mm)	Inch	(mm)	LB	(kg)	Pkg.	Pkg.
L-4-18ID-9-C	L-4-18ID-9-M	Nylon	Natural	3⁄4	(19)	4.0	(102)	.100	(2.54)	18	(8.2)	100	1000

• Use QC-100, L-200 or L-400-C Installation Tool. Consult Customer Service for availability and colors.

• Plate Dimensions: 1.081 x .522

Std.	Bulk				Bundle meter	Ler	ngth	Wi	dth		imum Tensile	_ Std.	Bulk
Cat. No.	Cat. No.	Material	Color	Inch	(mm)	Inch	(mm)	Inch	(mm)	LB	(kg)	Pkg.	Pkg.
L-7-50ID-9-C	L-7-50ID-9-M	Nylon	Natural	1¾	(44)	7.875	(200)	.183	(4.65)	50	(22.7)	100	1000

• Use QC-100, L-200 or L-400-C Installation Tool

Consult Customer Service for availability and colors.

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Marking Pens		
Cat. No.	Color Ink	Std. Pkg
WT163M-1	Black Marking Pen	1
WT163M-3	Red Marking Pen	1



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Ty-Fast° Cable Ties

Ø	

Striped Ties

Std.	Tie	Stripe	Dian	neter	Lei	ngth	Wi	dth	Loop 1	ensile	Std.
Cat. No.	Color	Color	Inch	(mm)	Inch	(mm)	Inch	(mm)	LB	(kg)	Pkg.
L-4-18-1/10-L	Brown	White	1⁄16 - 7⁄8	(2 - 16)	4.0	(102)	.100	(3)	18	(8.2)	50
L-4-18-1/2-L	Brown	Red	1⁄16 - 7⁄8	(2 - 16)	4.0	(102)	.100	(3)	18	(8.2)	50
L-4-18-1/0-L	Brown	Black	1⁄16 - 7⁄8	(2 - 16)	4.0	(102)	.100	(3)	18	(8.2)	50
L-4-18-1/4-L	Brown	Yellow	1⁄16 - 7⁄8	(2 - 16)	4.0	(102)	.100	(3)	18	(8.2)	50
L-4-18-1/7-L	Brown	Purple	1⁄16 - 7⁄8	(2 - 16)	4.0	(102)	.100	(3)	18	(8.2)	50
L-4-18-3/10-L	Orange	White	1⁄16 - 7⁄8	(2 - 16)	4.0	(102)	.100	(3)	18	(8.2)	50
L-4-18-3/2-L	Orange	Red	1⁄16 - 7⁄8	(2 - 16)	4.0	(102)	.100	(3)	18	(8.2)	50
L-4-18-3/0-L	Orange	Black	1⁄16 - 7⁄8	(2 - 16)	4.0	(102)	.100	(3)	18	(8.2)	50
L-4-18-3/4-L	Orange	Yellow	1⁄16 - 7⁄8	(2 - 16)	4.0	(102)	.100	(3)	18	(8.2)	50
L-4-18-3/7-L	Orange	Purple	1⁄16 - 7⁄8	(2 - 16)	4.0	(102)	.100	(3)	18	(8.2)	50
L-4-18-5/10-L	Green	White	1⁄16 - 7⁄8	(2 - 16)	4.0	(102)	.100	(3)	18	(8.2)	50
L-4-18-5/2-L	Green	Red	1⁄16 - 7⁄8	(2 - 16)	4.0	(102)	.100	(3)	18	(8.2)	50
L-4-18-5/0-L	Green	Black	1⁄16 - 7⁄8	(2 - 16)	4.0	(102)	.100	(3)	18	(8.2)	50
L-4-18-5/4-L	Green	Yellow	1⁄16 - 7⁄8	(2 - 16)	4.0	(102)	.100	(3)	18	(8.2)	50
L-4-18-5/7-L	Green	Purple	1⁄16 - 7⁄8	(2 - 16)	4.0	(102)	.100	(3)	18	(8.2)	50
L-4-18-6/10-L	Blue	White	1⁄16 - 7⁄8	(2 - 16)	4.0	(102)	.100	(3)	18	(8.2)	50
L-4-18-6/2-L	Blue	Red	1⁄16 - 7⁄8	(2 - 16)	4.0	(102)	.100	(3)	18	(8.2)	50
L-4-18-6/0-L	Blue	Black	1⁄16 - 7⁄8	(2 - 16)	4.0	(102)	.100	(3)	18	(8.2)	50
L-4-18-6/4-L	Blue	Yellow	1⁄16 - 7⁄8	(2 - 16)	4.0	(102)	.100	(3)	18	(8.2)	50
L-4-18-6/7-L	Blue	Purple	1⁄16 - 7⁄8	(2 - 16)	4.0	(102)	.100	(3)	18	(8.2)	50
L-4-18-8/10-L	Gray	White	1⁄16 - 7⁄8	(2 - 16)	4.0	(102)	.100	(3)	18	(8.2)	50
L-4-18-8/2-L	Gray	Red	1⁄16 - 7⁄8	(2 - 16)	4.0	(102)	.100	(3)	18	(8.2)	50
L-4-18-8/0-L	Gray	Black	1⁄16 - 7⁄8	(2 - 16)	4.0	(102)	.100	(3)	18	(8.2)	50
L-4-18-8/4-L	Gray	Yellow	1⁄16 - 7⁄8	(2 - 16)	4.0	(102)	.100	(3)	18	(8.2)	50
L-4-18-8/7-L	Gray	Purple	1⁄16 - 7⁄8	(2 - 16)	4.0	(102)	.100	(3)	18	(8.2)	50

• Striped ties are used to identify wire in bundles.

• Also available in bulk packages of 1000.

• Use QC-100, L-200, L-400-C, or ERG-299 Installation Tool.

Consult Customer Service for availability and colors.

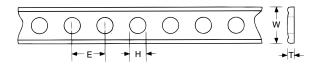
J Ty-Rap®/Ty-Fast®







- 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 lbs. with BTNY-096).
- Non-Conductive, Non Corrosive; resistant to fuels, lubricants and most chemicals.



Strapping

	W Width		Thic	T kness		H ole		E acing	_	
Item Number	Inch	(mm)	Inch	(mm)	Inch	(mm)	Inch	(mm)	Quantity	
S2NY-096-0-C	.281	(7.13)	.032	(.813)	.096	(2.44)	.187	(4.75)	100 foot rolls	
S4NY-128-0-C	.375	(9.52)	.040	(1.02)	.128	(3.25)	.312	(7.92)	100 foot rolls	
S4NY-140-0-C	.375	(9.52)	.040	(1.02)	.140	(3.56)	.312	(7.92)	100 foot rolls	
S4NY-167-0-C	.375	(9.52)	.040	(1.02)	.167	(4.24)	.312	(7.92)	100 foot rolls	
S4NY-167X-0-C	.375	(9.52)	.040	(1.02)	.167	(4.24)	.218	(5.54)	100 foot rolls	
S6NY-000-0-C	.500	(12.70)	.060	(1.52)	N/A	N/A	N/A	N/A	100 foot rolls	
S6NY-167-0-C	.500	(12.70)	.060	(1.52)	.167	(4.24)	.390	(9.90)	100 foot rolls	
S6NY-203-0-C	.500	(12.70)	.060	(1.52)	.203	(5.16)	.390	(9.90)	100 foot rolls	
S6NY-203X-0-C	.500	(12.70)	.060	(1.52)	.203	(5.16)	.281	(7.14)	100 foot rolls	
S7NY-265-0-C	.625	(15.87)	.070	(1.78)	.265	(6.73)	.500	(12.70)	100 foot rolls	
S7NY-265X-0-C	.625	(15.87)	.070	(1.78)	.265	(6.73)	.375	(9.52)	100 foot rolls	
S7NY-281-0-C	.625	(15.87)	.070	(1.78)	.281	(7.14)	.500	(12.70)	100 foot rolls	
S9NY-000-0-C	.875	(22.22)	.070	(1.78)	N/A	N/A	N/A	N/A	100 foot rolls	
S9NY-203-0-C	.875	(22.22)	.070	(1.78)	.203	(5.16)	.500	(12.70)	100 foot rolls	
S9NY-265-0-C	.875	(22.22)	.070	(1.78)	.265	(6.73)	.500	(12.70)	100 foot rolls	
S9NY-390-0-C	.875	(22.22)	.070	(1.78)	.390	(9.90)	.625	(15.87)	100 foot rolls	

Strapping Accessories Reference

Strapping Number	Strap-Tite Buckle	Mounting Tab	Mounting Cradle	Stud Buttons	Machine Screw
					#2
S2NY-096-0-C	N/A	M4NY-203-0-D	C4NY-203-0-D	BTNY-096-0-D	
S4NY-128-0-C	N/A	M4NY-203-0-D	C4NY-203-0-D	N/A	#5
S4NY-140-0-C	N/A	M4NY-203-0-D	C4NY-203-0-D	N/A	#6
S4NY-167-0-C	B4NY-167-0-D	M4NY-203-0-D	C4NY-203-0-D	BTNY-167-0-D	#8
S4NY-167X-0-C	B4NY-167-0-D	M4NY-203-0-D	C4NY-203-0-D	BTNY-167-0-D	#8
S6NY-000-0-C	N/A	M6NY-265-0-D	N/A	N/A	N/A
S6NY-167-0-C	N/A	M6NY-265-0-D	N/A	N/A	#8
S6NY-203-0-C	B6NY-203-0-D	M6NY-265-0-D	N/A	BTNY-203-0-D	#10
S6NY-203X-0-C	B6NY-203-0-D	M6NY-265-0-D	N/A	BTNY-203-0-D	#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	B7NY-265-0-D	M7NY-328-0-D	N/A	BTNY-265-0-D	#1⁄4
S7NY-281-0-C	N/A	M7NY-328-0-D	N/A	N/A	#1⁄4
S9NY-203-0-C	N/A	N/A	N/A	BTNY-203-0-D	#10
S9NY-265-0-C	N/A	N/A	N/A	BTNY-265-0-D	#1⁄4
S9NY-390-0-C	N/A	N/A	N/A	N/A	#3⁄8



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Ty-Fast[®] Cable Ties Industrial Jar

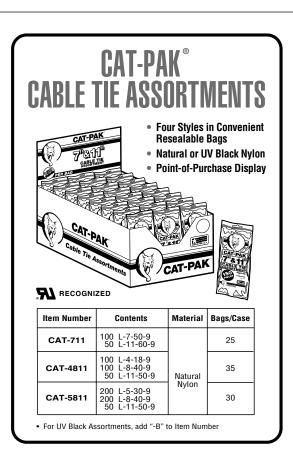


90457-I and 90650-IUV

Features:

- Ties available in natural nylon or black weather-resistant nylon.
 Reusable jar.
 Easily merchandised.
 Great value.

- UL Recognized and Mil-Spec Approved.



J Ty-Rap[®]/Ty-Fast[®]

				Length		Max. Bundle	Tensile	Palle	t Qty.
Cat. No.		Material	Jar Qty.	(inches)	Width	(inches)	Strength	Mini	Full
90457-I	R	Natural Nylon	200 100 200	4 5.6 7.5	.100 .130 .187	5% (6.25) 11⁄4 (1.25) 13⁄4 (1.75)	18# 30# 50#	240 240 240	400 400 400
90457-IUV	R	Black Weather- Resistant Nylon	200 100 200	4 5.6 7.5	.100 .130 .187	5% (6.25) 1¼ (1.25) 1¾ (1.75)	18# 30# 50#	240 240 240	400 400 400
90650-1	97	Natural Nylon	300 300 50	4 7.5 11.1	.100 .187 .187	% (.625) 1¾ (1.75) 3	18# 50# 50#	160 160 160	320 320 320
90650-IUV	R	Black Weather- Resistant Nylon	300 300 50	4 7.5 11.1	.100 .187 .187	5⁄4 (.625) 1¾ (1.75) 3	18# 50# 50#	160 160 160	320 320 320



Ty-Fast° Low Profile In-Line Fasteners



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 safeguard walls.

Features

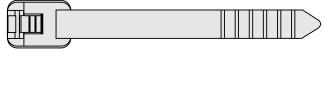
- Low-profile, contoured head reduces clearance required for the bundle and enhances the appearance of your harness.
- The safe-guard wall eliminates exposure to sharp edges.
- The saddle back fits snug against the contour of the wiring harness.
- Sizes and colors available to accommodate varying requirements.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

Low profile contoured head compared with the profile of the traditional Ty-Fast® Cable Tie.

Cable Ties Ordering Informatic

Std. Cat. No.	Bundle Range Dia. In. (mm)	Tensile Strength Lbs.(Kg)	Tie Length In (mm)	Strap Width In (mm)	Strap Thick In (mm)	Std. Pkg.	Bulk. Pkg.
F100-18	.125-1.00 (3.17-25.4)	18 (8.16)	4.65 (118.11)	.095 (2.41)	.043 (1.09)	100	1000
SF150-18	.125-1.50 (3.17-38.1)	18 (8.16)	6.45 (163.83)	.095 (2.41)	.043 (1.09)	100	1000
SF200-18	.125-2.00 (3.17-50.8)	18 (8.16)	8.10 (205.74)	.095 (2.41)	.043 (1.09)	100	1000
SF175-50	.187-1.75 (4.74-44.4)	50 (22.68)	7.70 (195.58)	.187 (4.74)	.048 (1.21)	100	1000
SF300-50	.187-3.00 (4.74-76.2)	50 (22.68)	11.33 (287.78)	.187 (4.74)	.052 (1.32)	100	1000
SF400-50	.187-4.00 (4.74-101.6)	50 (22.68)	14.53 (369.06)	.187 (4.74)	.052 (1.32)	100	1000
6F400-120	.375-4.00 (9.52-101.6)	120 (54.43)	14.58 (370.33)	.300 (7.62)	.075 (1.90)	100	1000
SF600-120	.375-6.00 (9.52-152.4)	120 (54.43)	21.00 (533.40)	.300 (7.62)	.075 (1.90)	100	1000
ERG297	Applicatio	n tool for 50 lbs. to 120 l	bs. tensile strength				
ERG299	Applicatio	on tool for 18 lbs. to 50 ll	os. 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 1000 pieces.



How to Ord	er Color Cable Ties
Color	Suffix No.
Black (outdoor)	Х
Brown	1
Red	2
Orange	3
Yellow	4
Green	5
Blue	6
Purple	7
Gray	8
White	9

Packaged for handling convenience.

Natural nylon is standard. For colored Safe-Ty in-line fasteners add the following suffix numbers to catalog numbers. Example: **SF175-50-2** (Red) For Distributor Packs (100), add suffix "-100".

Example: SF175-50-100

(Consult customer service for ordering information)



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Ty-Fast° Badge Holder





Ty-Fast[®] 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.

Ty-Fast® Badge Holder offers these prominent advantages:

- Designed specifically for lift ticket attachment to prevent damage to skier's clothing.
- Incorporates a loop diameter restriction device that forms the proper sized 1¼-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!

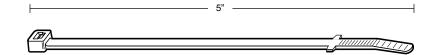
The Badge Holder comes in 9 different colors to match the resort's color schemes and is made of high quality Nylon 6/6 material to withstand cold temperatures. It is 5 inches long and has a sturdy 30 pound tensile strength rating. Badge Holders may also be heat-stamped with additional identification, 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!

J

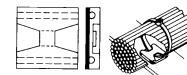
Ty-Fast® Badge Holder Ordering Information

Cat No.	Description	Qty.	UPC
SJ-5-30SKI-9-M	1000 bag	786210-17017	
Natural nylon color. Plea availability of colors and	ase consult Customer Service for heat-stamping.	or ordering and	
Dimensions: Construction: Max. Tensile Strength:	5" Nylon 6/6 30 lbs.		



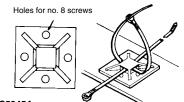


Cable Tie Mounting Bases



TC5342A

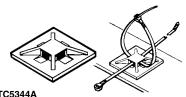
This nylon base is neutral in color, and for indoor use.



TC5345A

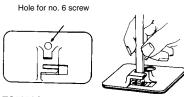
Accepting cable ties in four directions at 90°, this nylon, adhesive-backed base has two advantages. It eliminates errors in premounting the base with respect to its orientation to wire bundle direction. It also is a convenient way to mount wire bundles at cross-over points. Four optional mounting holes are included.





TC5344A

The four-way, pressure-sensitive, adhesive mounting base for use on cable ties up to .140 maximum width.



TC5353A

Mounting bases (adhesive backed, epoxy or screws)

Thomas & Betts has a mounting base or clamp to suit most applications and cable tie widths. For easier installation, some bases are available with pressure sensitive adhesive tape.

Features

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

Ordering Information

Adhesive Mounting Bases

Std. Cat. No.	Bulk Cat. No.	Mounting Method	Max. Tie Width Accom.	Length (in.)	Width (in.)	Material	Std. Pkg.	Bulk Pkg.
TC5342A	TC342A	Adhesive	.190	1.125	1.125	Nylon 6/6	100	1000
-	TC342A-X	Adhesive	.190	1.125	1.125	Weatherable nylon	-	1000
-	TC342	TC2PA	.190	1.125	1.125	Nylon 6/6	-	1000
-	TC342X	TC2PA	.190	1.125	1.125	Weatherable nylon	-	1000
-	TC342A-FR	Adhesive	.190	1.125	1.25	Flame-retardant nylon	-	1000

Four-Way Adhesive Mounting Base

Std. Cat. No.	Bulk Cat. No.	Mounting Method	Max. Tie Width Accom.	Length (in.)	Width (in.)	Material	Std. Pkg.	Bulk Pkg.
TC5345A	TC345A	Adhesive	.190	1.125	1.125	Nylon 6/6	100	1000
-	TC345AFR	Adhesive	.190	1.125	1.125	Flame-retardant	-	1000
-	TC345AX	Adhesive	.190	1.125	1.125	Weatherable nylon	-	1000
-	TC345	TC2PA/Screws	.190	1.125	1.125	Nylon 6/6	-	1000

Larger Siz	ze Four-Way Mi	ni Base		
Std. Cat. No.	Bulk Cat. No.	Mounting Method	Size (in.)	Material
TC050X050A	TC050X050A-C	Adhesive Backed	0.5 x 0.5	Nylon 6/6
TC150X150	TC150X150-L	Screw Mount	1.50 x 1.50	Nylon 6/6
TC150X150A	TC150X150A-L	Adhesive Backed	1.50 x 1.50	Nylon 6/6
TC200X200	TC200X200-L	Screw Mount	2.0 x 2.0	Nylon 6/6
TC200X200A	TC200X200A-L	Adhesive Backed	2.0 x 2.0	Nylon 6/6

Four-W	/ay Mini	Base		Four-Way Mini Base									
Std. Cat. No.	Bulk Cat. No.	Mounting Method	Max. Tie Width Accom.	Length (in.)	Width (in.)	Material	Std. Pkg.	Bulk Pkg.					
TC5344A TC5344AX	TC344A TC344AX	Adhesive Adhesive	.140 .140	.750 .750	.750 .750	Nylon 6/6 Weatherable Nylon	100 100	1000 1000					

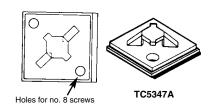
Flexib	e Adhes	ive Base	for P	reasse	mbled	Ties		
Std. Cat. No.	Bulk Cat. No.	Mounting Method	Max. Tie Width Accom.	Length (in.)	Width (in.)	Material	Std. Pkg.	Bulk Pkg.
TC5353A _	TC353A TC353	Adhesive TC2PA/Screws	.190 .190	2.000 2.000	1.000 1.000	Nylon 6/6 Nylon 6/6	25	500 500



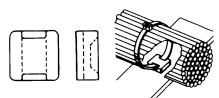
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Ty-Rap®/Ty-Fast®

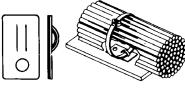
Cable Tie Mounting Bases



The TC347 series is a versatile base which accommodates the entire line of standard cable ties. It is a four-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).



TC817



TC105

Adhesive Mounting Base

Std. Cat. No.	Bulk Pkg. Cat. No.	Mounting Method	Max. Tie Width Accom.	Length (in.)	Width (in.)	Material	Std. Pkg.	Bulk Pkg.
TC5347A	TC347A	Adhesive	.301	1.125	1.125	Nylon 6/6	100	1000
-	TC347	TC2PA/Screws	.301	1.125	1.125	Nylon 6/6	-	1000
-	TC347FR	TC2PA/Screws	.301	1.125	1.125	Flame-retardant	-	1000
-	TC347X	TC2PA/Screws	.301	1.125	1.125	Weatherable nylon	-	1000
-	TCZ347	TC2PA/Screws	.301	1.125	1.125	Tefzel	-	1000

Miniature Base								
Std. Cat. No.	Bulk Pkg. Cat. No.	Mounting Method	Max. Tie Width Accom.	Length (in.)	Width (in.)	Material	Std. Pkg.	Bulk Pkg.
-	TC817-TB	TC2PA	.190	.437	.437	Nylon 6/6	-	1000

Aluminum Adhesive Mounting Plates

Cat. No.	Bulk Pkg. Cat. No.	Mounting Method	Max. Tie Width Accom.	Length (in.)	Width (in.)	Material	Std. Pkg.	Bulk Pkg.
-	TC105	TC2PA	.190	1.000	.500	Aluminum	_	1000
-	TC824-TB	TC2PA	.190	1.375	.375	Aluminum	-	1000



- 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 released to the stall of the stall of the stallation of t releasable.
- Available in a pressure sensitive adhesive or screw mount design.



One-Piece Mounting Clamp

	Base Maximu		Clamping Area				
Cat. No.	Style	Height	Minimum	Maximum	Std. Pkg.		
ТС349А-ТВ ТС5349А-ТВ	Adhesive Adhesive	0.57" (14.5mm)	0.18" x 0.24" (4.5mm x 6.0mm)	.035" x 0.24"(9.0mm x 6.0mm)	1000 100		
TC350-TB TC350A-TB TC5350A-TB	Screw Mount Adhesive Adhesive	0.89" (22.5mm)	0.20" x 0.59" (5.0mm x 15.0mm)	0.45" x 0.59" (11.5mm x 15.0mm)	1000 1000 100		

Note: Made of natural nylon 6/6. Temperature Range: -40°C to +85° Classified to U.L.94V-2.

Product Base is .94" (25.0 mm) x .94" (25.0 mm).

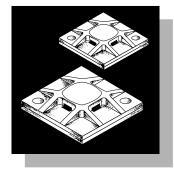
Utilizes #8 self-tapping screw for mounting the TC350-TB.

Mounting B	ase Adnesive	
Cat. No.	Description	Std. Pkg.
TC2PA	Consists of one tube each adhesive and activator	1



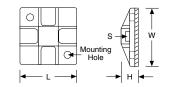
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Cable Tie Mounting Bases



Mounting Pads

• ¾" and 1" mounts for use with 18# through 50# tensile cable ties.



- Supplied on rubber based (synthetic polymer) closed cell foam adhesive on acrylic based adhesive, or with no adhesive for #6 screw mount applications.
- Available in 6/6 Natural Nylon and heat stabilized 6/6 Black Nylon.
- UL Flammability 94 V-2 (clip).

91

91

3/4" x 3/4" Mount

Std.	Bulk		Mount	He	ight	Le	ngth	W	idth	Slot I	Height	Slot	Width	Std.	Bulk
Cat. No.	Cat. No.	Material	Method	Inch	(mm)	Inch	(mm)	Inch	(mm)	LB	(kg)	Inch	(mm)	Pkg.	Pkg.
MPNY-750-9-C	MPNY-750-9-D	Natural Nylon	Synthetic Polymer	.205	(5.21)	.750	(19.04)	.750	(19.04)	.050	(1.27)	.140	(3.18)	100	500
MPNY-750-0-C	MPNY-750-0-D	Black Nylon	Synthetic Polymer	.205	(5.21)	.750	(19.04)	.750	(19.04)	.050	(1.27)	.140	(3.18)	100	500
MPNY-750A-9-C	MPNY-750A-9-D	Natural Nylon	Acrylic Adhesive	.205	(5.21)	.750	(19.04)	.750	(19.04)	.050	(1.27)	.140	(3.18)	100	500
MPNY-750A-0-C	MPNY-750A-0-D	Black Nylon	Acrylic Adhesive	.205	(5.21)	.750	(19.04)	.750	(19.04)	.050	(1.27)	.140	(3.18)	100	500
MPNY-750S-9-C	MPNY-750S-9-D	Natural Nylon	#6 Screw	.205	(5.21)	.750	(19.04)	.750	(19.04)	.050	(1.27)	.140	(3.18)	100	500
MPNY-750S-0-C	MPNY-750S-0-D	Black Nylon	#6 Screw	.205	(5.21)	.750	(19.04)	.750	(19.04)	.050	(1.27)	.140	(3.18)	100	500
Tolerance ±				.010	(.254)		.015	(.381)			.010	(.254)			

For use with 18-40 lb. Cable Ties.

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Ty-Rap®/Ty-Fast®

1" x 1" Mount

Std.	Bulk		Mount		H ight	Le	L ngth		W idth	s Slot I) leight		S Width	Std.	Bulk
Cat. No.	Cat. No.	Material	Method	Inch	(mm)	Inch	(mm)	Inch	(mm)	LB	(kg)	Inch	(mm)	Pkg.	Pkg.
MPNY-1000-9-C	-	Natural Nylon	Synthetic Polymer	.215	(5.46)	1.000	(25.40)	1.000	(25.40)	.070	(1.78)	.203	(5.16)	100	-
MPNY-1000-0-C	-	Black Nylon	Synthetic Polymer	.215	(5.46)	1.000	(25.40)	1.000	(25.40)	.070	(1.78)	.203	(5.16)	100	-
MPNY-1000A-9-C	-	Natural Nylon	Acrylic Adhesive	.215	(5.46)	1.000	(25.40)	1.000	(25.40)	.070	(1.78)	.203	(5.16)	100	-
MPNY-1000A-0-C	-	Black Nylon	Acrylic Adhesive	.215	(5.46)	1.000	(25.40)	1.000	(25.40)	.070	(1.78)	.203	(5.16)	100	-
MPNY-1000S-9-C	MPNY-1000S-9-D	Natural Nylon	#6 Screw	.215	(5.46)	1.000	(25.40)	1.000	(25.40)	.070	(1.78)	.203	(5.16)	100	1000
MPNY-1000S-0-C	MPNY-1000S-0-D	Black Nylon	#6 Screw	.215	(5.46)	1.000	(25.40)	1.000	(25.40)	.070	(1.78)	.203	(5.16)	100	1000
Tolerance ±			.010	(.254)		.015	(.381)			.010	(.254)				

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 set-up for maximum performance

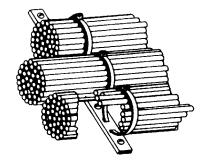
with Acrylic Based adhesives.

For rubber based, allow 15 minutes set-up for maximum performance.



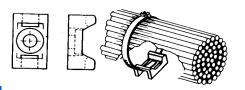


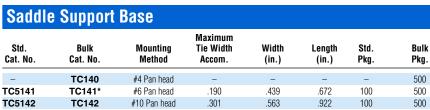
Cable Tie Mounting Bases



munup	e-Bundle	Mounting	Jourha				
Bulk Cat. No.	Mounting Method	Maximum Tie Width Accom.	Width (in.)	Length (in.)	Capacity (bundles)	Mil. Std. Part No.	Bulk Pkg.
TC1101	#6 screws	.190	.500	1.75	1	MS3339-1	100
TC1102	#6 screws	.190	.500	3.00	2	MS3339-2	100
TC1103	#6 screws	.190	.500	4.25	3	MS3339-3	100
TC1104	#6 screws	.190	.500	5.50	4	MS3339-4	100
TC1105	#6 screws	.190	.500	6.75	5	MS3339-5	100
TC1112	#6 screws	.301	.625	9.60	6	MS3339-11	100
TC1113	#6 screws	.301	.625	2.10	6	MS3339-6	100
TC1114	#6 screws	.301	.625	3.60	2	MS3339-7	100
TC1115	#6 screws	.301	.625	5.10	3	MS3339-8	100
TC1116	#6 screws	.301	.625	6.60	4	MS3339-9	100
TC1117	#6 screws	.301	.625	8.10	5	MS3339-10	100

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





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 see Technical Services.

* Add suffix FR for flame retardant material. (TC141 only.)

Push-	In and Boli	ed Bases	5				
Std. Cat. No.	Bulk Cat. No.	Mounting Hole Size	Maximum Tie Width Accom.	Width (in.)	Length (in.)	Std. Pkg.	Bulk Pkg.
TC5823	TC823-TB	1⁄4	.190	.438	.625	100	1000
-	TC107 [†]	#10-32 thd	.190	.438	.688	-	1000

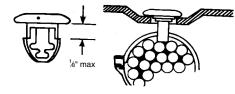
⁺ Not ® Recognized.

500

500

500

7



Snap-In	Snap-In Mounting Base Cap									
Bulk Cat. No.	Mounting Hole Size	Maximum Tie Width Accom.	Width (in.)	Length (in.)	Material	Bulk Pkg.				
TC121-TB	.250	.190	.445	.415	Nylon 6/6	1000				
TCH121 [†]	.250	.190	.445	.415	Nylon 6/6 heat stabilized	1000				

Snap-in, premountable base for securing wire bundles in cabinets maintains the attractive external appearance of the equipment housing-TC121 Snap-Cap. ⁺ Not ® Recognized.



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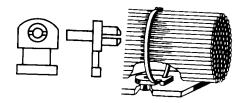
Ty-Rap®/Ty-Fast®

1/6" max

TC107

TC823

Cable Tie Mounting Bases



Self-Riveting Base

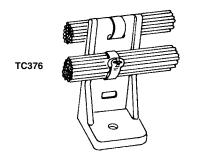
						
Bulk Cat. No.	Mounting Hole Size	Maximum Tie Width Accom.	Width (in.)	Length (in.)	Material	Bulk Pkg.
ТС116-ТВ	.146	.190	.500	.750	Nylon 6/6 (Red)	1000
TC118-TB	.169	.190	.500	.750	Nylon 6/6 (Blue)	1000
TC120	.196	.190	.500	.750	Nylon 6/6 (Yellow)	1000

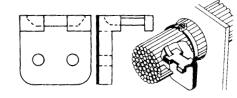
Knock-in mounting base TC116-TB, TC118-TB, TC120-firmly locks into position when projecting pin is knocked into hollow peg. Slip tie under base and tie as usual.

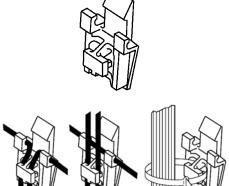


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TC115







Ty-Rap[®] Mounting Blocks

Bulk Cat. No.	Mounting Bolt Size	Maximum Tie Width Accom.	Width (in.)	Length (in.)	Bulk Pkg.
TC115-TB	#10	.190	.469	1.00	1000

Mounting blocks permit vertical stacking and can be used in any direction.

Ty-Rap® S	Stand-Off Bracke	ts		
Bulk. Cat. No.	Maximum Tie Width Accom.	Width (in.)	Length (in.)	Bulk Pkg.
TC375	.190	.750	3.65	100
TC376	.190	.670	1.75	100

These brackets permit bundles to be mounted on either side. They also serve as means to raise bundles off the surface.

Ty-Rap[®]/Ty-Fast[®]

Right-Angle Bundle Support

Bulk Cat. No.	Maximum Tie Width Accom.	Width (in.)	Length (in.)	Bulk Pkg.
TC109	.190	.563	.438	200
TC106	.301	1.000	1.000	1000

This style meets Military Specification requirements as a support at holes in bulkheads and walls.

Aluminum Siding Clip

Cat. No.	Wire Accommodation	Bulk Pkg.
TC201	1⁄%" dia. wire (2 pair station wire)	

Material:

Transparent – Color 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.

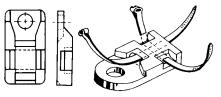


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These miniature mounting bases are ideal for high-density packaging. Simply slip Ty-Rap® tie under slot in fastened mount, and complete tie in usual manner. Check chart for mounting details.



TC826-TB

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TC826-TB

Miniature Mounting Bases

Std. Cat. No.	Bulk Pkg. Cat. No.	Mounting Method	Maximum Tie Width Accom.	Width (in.)	Length (in.)	Std. Pkg.	Bulk Pkg.
TC502	TC102	#8 screw	.190	.500	.750	100	1000
-	TC104	#5 screw	.091	.316	.406	-	1000
-	TC804	#2 screw	.091	.316	.406	-	1000
-	TC112-TB	#8 screw	.190	.375	.750	_	1000
-	TC812-TB	#10 screw	.190	.375	.750	-	1000
-	TC814-TB	#5 screw	.190	.375	.750	_	1000

Threaded insert permits screw to come from outside of mounting surface.

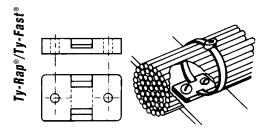
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Two-Direction Mounting Base

Std. Cat. No.	Bulk Pkg. Cat. No.	Mounting Method	Maximum Tie Width Accom.	Width (in.)	Length (in.)	Std. Pkg.	Bulk Pkg.	
-	TC826-TB	#8 screw	.190	.500	1	-	1000	
TC5828	TC828-TB	#8 screw	.190	.390	.875	100	1000	

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.



In-Line E	Base				
Bulk Cat. No.	Mounting Method	Maximum Tie Width Accom.	Width (in.)	Length (in.)	Bulk Pkg.
TC815-TB	#10 screws	.301	.750	1.125	500

A standard two-hole base that installs in-line with the wire bundle which conceals it.

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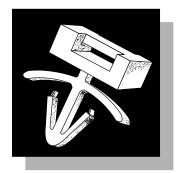
Single-Bundle Mounting Base												
Std. Cat. No.	Bulk Cat. No.	Mounting Method	Maximum Tie Width Accom.	Width (in.)	Length (in.)	Std. Pkg.	Bulk Pkg.					
-	TC101	#10 screws	.190	.500	2.00	_	1000					
TC503	TC103	1/4 screws	.301	.625	3.08	100	500					

The TC101 and TC103 nylon bases provide a mounting range for bundles from 1/4" through 4" in diameter. One mounting hole is slotted to permit adjustment of the bundle position up to the time of actual bundle installation.



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Cable Tie Mounting Bases



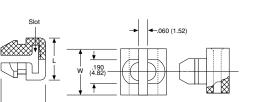
Push Mounts

PMNY-185

- Versatile push mount for cable ties to 50# tensile strength.
- For use in .187 / .192 mounting hole for panel thickness .030 to .080.

PMNY-245

- Accepts cable ties to 50# tensile (miniature through standard).
- For use in .250" mounting hole for maximum panel thickness of .062".



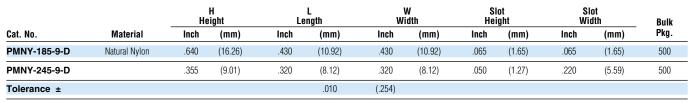
Stocked in 6/6 Natural Nylon.

• Stocked in 6/6 Natural Nylon.

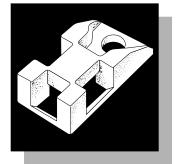
• UL Flammability: 94 V-2.

• Oxygen index: 31.

- •UL Flammability 94 V-2.
- •Oxygen index: 31.

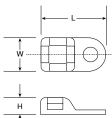






4-Way Mount

- 4-Way screw mounts for cable ties to 50# tensile strength.
- Mount with #6 or #8 screws.



- Available in 6/6 Natural Nylon.
- UL Flammability: 94 V-2.

Cat. No.	Height	Length	Width	Slot Width	Mount Dia.	Bulk Pkg.
SMNY-220-9-D	.230	.950	.500	.220	.170	500
Tolerance ±			.015			



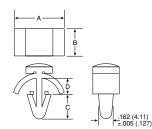


Cable Clamps and Clips



Snap Mounts

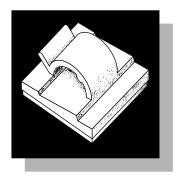
- For panel thicknesses from .060" to .150" to hold separate pieces of material together.
- Used with W4 or N4 Series Cable Clamps; allowable panel thickness is .030" to .050".



- Stocked in Natural 6/6 Nylon.
- UL Flammability 94 V-2.

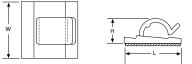
			Α		В		C		D	Bulk Pkg.
Cat. No.	Material	Inch	(mm)	Inch	(mm)	Inch	(mm)	inch	(mm)	Qty.
MSNY-166-0-M	UV Black Nylon	.485	(12.32)	.312	(7.93)	.281	(7.14)	.180	(4.57)	1000
Tolerance ±					.010	(.254)				

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Round Adhesive Clips

- Diverse cable clamps for bundle diameters from .160 to .620.
- Mounted on a rubber based closed cell foam adhesive.



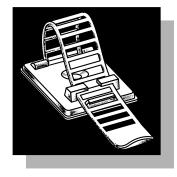
- Natural nylon.
- UL Flammability 94 V-2 (clip).
- Flexible center tang for removal or addition of cables.

			H eight	L Length		W Width		Maximum	Mountina	Bulk Pkg.
Cat. No.	Material	Inch	(mm)	Inch	(mm)	Inch	(mm)	Bundle	Method	Qty.
RANY-160-9-D	Natural Nylon	.250	(6.35)	.630	(16.00)	.580	(14.73)	.160	Rubber Based Adhesive	500
RANY-280-9-D	Natural Nylon	.410	(10.41)	1.000	(25.40)	1.000	(25.40)	.280	Rubber Based Adhesive	500
RANY-530-9-D	Natural Nylon	.620	(15.75)	1.000	(25.40)	1.000	(25.40)	.530	Rubber Based Adhesive	500
RANY-620-9-D	Natural Nylon	.560	(14.22)	1.250	(31.75)	1.120	(28.45)	.620	Rubber Based Adhesive	500
Tolerance ±			.015	(.381)						

• Available July 1996.

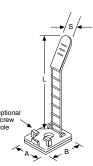


Cable Clamps and Clips



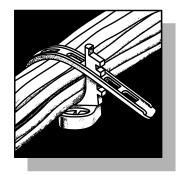
Adjustable Cable Clamps

- Three sizes for bundles from .118" to .984".
- Ladder style fastener is easily released and refastened.
- Supplied "single-cut" on a rubber based closed cell foam adhesive.



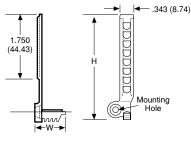
- Stocked in 6/6 Gray Nylon.
- UL Flammability 94 V-2 (clip).
- Optional screw hole for #4 or #5 flat head screw.

			A	В			S		L	Applied Wire		rew e Dia.	Std.
Cat. No.	Material	Inch	(mm)	Inch	(mm)	Inch	(mm)	Inch	(mm)	Range	Inch	(mm)	Pkg.
ULNY-013-8-C	Gray Nylon	.709	(18.00)	.984	(25.00)	.314	(8.00)	2.340	(59.50)	.118500	.110	(2.79)	100
ULNY-018-8-C	Gray Nylon	.827	(21.00)	1.180	(30.00)	.472	(12.00)	3.120	(79.40)	.197827	.110	(2.79)	100
ULNY-023-8-C	Gray Nylon	.984	(25.00)	1.380	(35.00)	.551	(14.00)	3.370	(85.50)	.275984	.135	(3.43)	100
Tolerance ±			.015	(.381)		.010	(.254)	.030	(.762)				



Tab-Lock Cable Clamps

- Adjustable cable clamp for diameters to ¾".
- Releasable and reusable. Add or remove wires from bundles as required.
- #6 or #8 82° flat head machine screw to mount.



- Stocked in 6/6 Natural Nylon.
- UL Flammability 94 V-2.

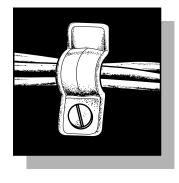
Adiustable н w Bulk Height Width Diameter Mounting Pkg. Cat. No. Material Inch (mm) Inch (mm) Inch (mm) Method Qty. .375 - .750 (9.52 - 19.05) #6, #8 Flat TBNY-750-9-M Natural Nylon 2.833 (71.96) .850 (21.59) 1000 Head Screw Tolerance ± .030 (.762) .015 (.381)



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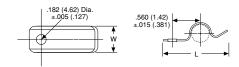
Ty-Rap®/Ty-Fast®

Cable Clamps and Clips



Flex Clips

- Utilizes nylon's "memory" to retain original shape even after repeated use.
- Ideal for temporary applications.
- Mounts with one #8 machine screw.



- Stocked in Natural 6/6 Nylon.
- UL Flammability 94 V-2.

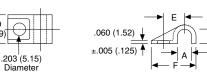
		L Length		L W Length Width			Cable neter	Mounting	Bulk Pkg.
Cat. No.	Material	Inch	(mm)	Inch	(mm)	Inch	(mm)	Method	Qty.
FCNY-312-9-M	Natural Nylon	1.350	(34.29)	.500	(12.69)	.312	(7.93)	#8 Screw	1000
Tolerance ±		.020	(.508)	.015	(.381)				



Half Clamps

* .500 (12.69)

- Rugged clamps with reinforced side panels for bundle diameters to .484".
- 203 mounting hole accepts #6 through #10 screws.



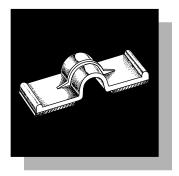
- Stocked in 6/6 Natural and heat stabilized Black Nylon.
- UL Flammability 94 V-2.

		A B E		F		Bulk Pkg.				
Cat. No.	Material	Inch	(mm)	Inch	(mm)	Inch	(mm)	inch	(mm)	Qty.
CPNY-115-9-M	Natural Nylon	.115	(2.92)	.115	(2.92)	.314	(7.98)	.675	(17.15)	1000
CPNY-172-9-M	Natural Nylon	.172	(4.36)	.172	(4.36)	.336	(8.53)	.732	(18.59)	1000
CPNY-234-9-M	Natural Nylon	.234	(5.94)	.234	(5.94)	.370	(9.40)	.793	(20.14)	1000
CPNY-297-9-M	Natural Nylon	.297	(7.54)	.297	(7.54)	.400	(10.16)	.859	(21.82)	1000
CPNY-359-9-M	Natural Nylon	.359	(9.11)	.359	(9.11)	.435	(11.05)	.920	(23.37)	1000
CPNY-422-9-M	Natural Nylon	.422	(10.71)	.422	(10.71)	.470	(11.94)	.980	(24.89)	1000
CPNY-484-9-M	Natural Nylon	.484	(12.29)	.484	(12.29)	.500	(12.69)	1.044	(26.52)	1000
CPNY-115-0-M	Heat Stabilized Black Nylon	.115	(2.92)	.115	(2.92)	.314	(7.98)	.675	(17.15)	1000
CPNY-172-0-M	Heat Stabilized Black Nylon	.172	(4.36)	.172	(4.36)	.336	(8.53)	.732	(18.59)	1000
CPNY-234-0-M	Heat Stabilized Black Nylon	.234	(5.94)	.234	(5.94)	.370	(9.40)	.793	(20.14)	1000
CPNY-297-0-M	Heat Stabilized Black Nylon	.297	(7.54)	.297	(7.54)	.400	(10.16)	.859	(21.82)	1000
CPNY-359-0-M	Heat Stabilized Black Nylon	.359	(9.11)	.359	(9.11)	.435	(11.05)	.920	(23.37)	1000
CPNY-422-0-M	Heat Stabilized Black Nylon	.422	(10.71)	.422	(10.71)	.470	(11.94)	.980	(24.89)	1000
CPNY-484-0-M	Heat Stabilized Black Nylon	.484	(12.29)	.484	(12.29)	.500	(12.69)	1.044	(26.52)	1000
Tolerance ±			.010	(.254)			.015	(.381)		



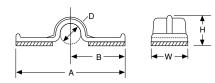
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Cable Clamps and Clips



Press Clips

- 4 Sizes to accommodate bundles up to 1/2".
- Clips are provided on a rubber based closed cell foam adhesive.



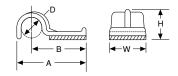
- Stocked in 6/6 Natural Nylon. Contact factory for availability in special materials.
- UL Flammability 94 V-2 (clip).

		D Diameter			Α		В		Н		W	
Cat. No.	Material	Inch	(mm)	Inch	(mm)	Inch	(mm)	Inch	(mm)	Inch	(mm)	Pkg. Qty.
PCNY-125-9-D	Natural Nylon	.125	(3.17)	.760	(19.30)	.380	(9.65)	.211	(5.36)	.375	(9.52)	500
PCNY-250-9-D	Natural Nylon	.250	(6.35)	1.380	(35.05)	.690	(17.52)	.324	(8.23)	.500	(12.69)	500
PCNY-375-9-D	Natural Nylon	.375	(9.52)	1.470	(37.32)	.735	(18.61)	.444	(11.29)	.625	(15.87)	500
PCNY-500-9-D	Natural Nylon	.500	(12.69)	1.590	(40.57)	.795	(20.19)	.585	(14.85)	.750	(19.05)	500
Tolerance ±	Natural Nylon	.010	(.254)	.020	(.508)			.010	(.254)			



Half Press Clips

- 4 Sizes to accommodate bundles up to ½".
- Clips are provided on a rubber based closed cell foam adhesive.



- Stocked in 6/6 Natural Nylon. Contact factory for availability in special materials.
- UL Flammability 94 V-2 (clip).

			D meter		Α		В		Н		W		
Cat. No.	Material	Inch	(mm)	Inch	(mm)	Inch	(mm)	Inch	(mm)	Inch	(mm)	Pkg. Qty.	
HCNY-125-9-M	Natural Nylon	.125	(3.17)	.493	(12.52)	.380	(9.65)	.180	(4.57)	.375	(9.52)	1000	
HCNY-250-9-M	Natural Nylon	.250	(6.35)	.865	(21.97)	.690	(17.52)	.325	(8.25)	.500	(12.69)	1000	
HCNY-375-9-M	Natural Nylon	.375	(9.52)	.980	(24.88)	.750	(19.05)	.415	(10.54)	.625	(15.87)	1000	
HCNY-500-9-M	Natural Nylon	.500	(12.69)	1.110	(28.19)	.820	(20.83)	.560	(14.22)	.750	(19.05)	1000	
Tolerance ±	Natural Nylon	.010	(.254)	.020	(.508)			.010	(.254)				



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Ty-Rap®/Ty-Fast®

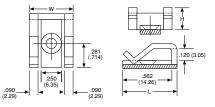


Cable Clamps and Clips



Flat Cable Clips

- Low profile clip for single or multiple layers of flat ribbon cable.
- FANY supplied on a rubber based closed cell foam adhesive.



- Screw mountable with a #4 flat head screw.
- Flexible tangs allow for easy removal and replacement of desired cable.
- Stocked in 6/6 Natural Nylon.
- UL Flammability 94 V-2 (clip).

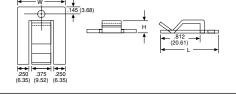
		-	H Height		L Length		V dth	Mounting	Bulk Pkg.
Cat. No.	Material	Inch	(mm)	Inch	(mm)	Inch	(mm)	Method	Qty.
FANY-562-9-D	Natural Nylon	.264	(6.70)	.625	(15.87)	.500	(12.69)	Adhesive	500
FSNY-562-9-D	Natural Nylon	.233	(5.92)					#4 Screw	500
Tolerance ±		.010	(.254)		.015	(.381)			



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Flat Cable Screw Clip

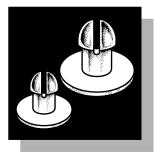
- Flat ribbon cable clamp with mounting hole for #8 screw.
- Stocked in Natural 6/6 Nylon.
- Flexible center tang allows for easy removal and replacement of desired cable.
- UL Flammability 94 V-2.



		H Hei	l ght	Le	L ngth	V Wi	v	Mounting	Bulk Pkg.
Cat. No.	Material	Inch	(mm)	Inch	(mm)	Inch	(mm)	Method	Qty.
FSNY-812-9-D	Natural Nylon	.250	(3.17)	1.187	(30.15)	1.000	(25.40)	#8 Screw	500
Tolerance ±		.010	(.254)		.015	(.381)			

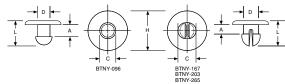


Cable Clamps and Clips



Stud Buttons

- Utilize nylon's "memory" to retain original shape after compression.
- Part numbers contain recommended mounting hole diameters.
- For use with Catamount strapping or panel



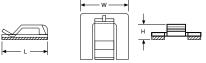
- thickness through .165" with mounting holes through #1/4.
- Stocked in heat stabilized Black Nylon for high heat applications.
- UL Flammability 94 V-2.

	Hea	H ad Dia.		A		C		D		L	Bulk Pkg.
Cat. No.	Inch	(mm)	Inch	(mm)	Inch	(mm)	Inch	(mm)	Inch	(mm)	Qty.
BTNY-167-0-D	.343	(8.71)	.125	(3.17)	.202	(5.13)	.165	(4.19)	.297	(7.54)	500
BTNY-203-0-D	.468	(11.88)	.156	(3.96)	.238	(6.04)	.200	(5.08)	.359	(9.11)	500
BTNY-265-0-D	.580	(14.73)	.171	(4.34)	.300	(7.62)	.260	(6.60)	.410	(10.41)	500
Tolerance ±					.010	(.254)					



Flat Adhesive Clips

- Low profile clip for single or multiple layers of flat ribbon cable.
- Supplied on a rubber based closed cell foam adhesive.



- Flexible center tang for removal or addition of cables.
- Stocked in 6/6 Natural Nylon.
- UL Flammability 94 V-2 (clip).

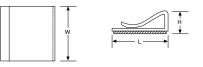
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		H Hei	ght	Le	L ngth		N idth	Mounting	Bulk Pkg.
Cat. No.	Material	Inch	(mm)	Inch	(mm)	Inch	(mm)	Method	Qty.
FANY-812-9-D	Natural Nylon	.281	(7.14)	1.000	(25.40)	1.000	(25.40)	Adhesive	500
Tolerance ±		.010	(.254)		.015	(.381)			



Flat PVC Clips

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



- "Single-Cut" on a rubber based closed cell foam adhesive.
- Gray PVC.
- UL Flammability 94 V-0 (clip).

		H Heig	Height		L Length		/ jth	Mounting	Bulk Pkg.
Cat. No.	Material	Inch	(mm)	Inch	(mm)	Inch	(mm)	Method	Qty.
FRPV-1000-8-D	Gray PVC	.415	(5.84)	1.062	(26.97)	1.000	(25.40)	Adhesive	500
Tolerance ±		.015	(.381)	.030	(.762)	.015	(.381)		



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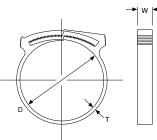
Cable Clamps and Clips



Gator Grip Hose Clamp

or with pliers to remove.

- 16 sizes for bundle diameters to 2%".
- UL Flammability 94 V-2.
- Removable and reusable. Twist by hand Request samples for testing to your application. Tested to 250 PSI.
- Stocked in black Nylon. 100 pieces per package.



		D Diameter		D1 Diameter		T kness		W idth	Bulk Pkg.
Cat. No.	Inch	(mm)	Inch	(mm)	Inch	(mm)	inch	(mm)	Qty.
GGNY-344-0-C	13/32	(10.32)	11/32	(8.73)	.070	(1.8)	.220	(5.6)	100
GGNY-406-0-C	15/32	(11.92)	13/32	(10.32)	.070	(1.8)	.220	(5.6)	100
GGNY-468-0-C	17/32	(13.49)	15/32	(11.91)	.070	(1.8)	.220	(5.6)	100
GGNY-531-0-C	19/32	(15.08)	17/32	(13.49)	.070	(1.8)	.220	(5.6)	100
GGNY-593-0-C	21/32	(16.67)	19/32	(15.08)	.070	(1.8)	.220	(5.6)	100
GGNY-672-0-C	13/16	(20.64)	43/64	(17.07)	.070	(1.8)	.220	(5.6)	100
GGNY-750-0-C	7⁄8	(22.23)	3⁄4	(19.05)	.070	(1.8)	.220	(5.6)	100
GGNY-875-0-C	1	(25.40)	7⁄8	(22.23)	.070	(1.8)	.220	(5.6)	100
GGNY-953-0-C	13/32	(27.78)	⁶ / ₆₄	(24.21)	.070	(1.8)	.310	(7.9)	100
GGNY-1031-0-C	113/16	(30.16)	11/32	(26.19)	.070	(1.8)	.310	(7.9)	100
GGNY-1250-0-C	1 7⁄16	(36.51)	1¼	(31.75)	.070	(1.8)	.360	(9.1)	100
GGNY-1406-0-C	1%	(41.28)	113/32	(35.72)	.070	(1.8)	.360	(9.1)	100
GGNY-1593-0-C	113/16	(46.04)	11932	(40.48)	.070	(1.8)	.360	(9.1)	100
GGNY-1687-0-C	12932	(48.42)	111/16	(42.86)	.070	(1.8)	.360	(9.1)	100
GGNY-1875-0-C	21⁄8	(53.98)	17⁄8	(47.63)	.070	(1.8)	.400	(10.2)	100
GGNY-2125-0-C	21⁄8	(60.33)	23%	(53.98)	.070	(1.8)	.400	(10.2)	100
Tolerance ±				.010 (.254)					

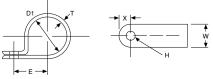


Cable Clamps and Clips



Plain Edge Cable Clamps

- Fully radiused inside edges with size markings in inches and millimeters for easy identification.
- Stocked in Natural White and Black 6/6 Nylon.



- 18 diameters and 2 widths with mounting holes for #4 through #10 screws.
- Plain edge cable clamps are designed to perform to NAS-1397P.

*Note: "C" Also 100 packs available. Replace "-M" with "-C" for 100 pack.

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Ty-Rap[®]/Ty-Fast[®]

	- N-	Clo)1 Ised		E		Г	V	-	Н	H ole		x	Bulk
	t. No.		neter		()		(ness	Wi			meter			Pkg.
White	Black	Inch	(mm)	Inch	(mm)	Inch	(mm)	Inch	(mm)	Inch	(mm)	Inch	(mm)	Qty.
14NY-002-9-M	N4NY-002-0-M	.125	(3.2)	.343	(8.7)	.050	(1.3)	.375	(9.5)	.170	(4.3)	.218	(5.5)	1000
N4NY-003-9-M	N4NY-003-0-M	.187	(4.8)	.378	(9.6)	.050	(1.3)	.375	(9.5)	.170	(4.3)	.218	(5.5)	1000
N4NY-004-9-M	N4NY-004-0-M	.250	(6.4)	.421	(10.7)	.050	(1.3)	.375	(9.5)	.170	(4.3)	.218	(5.5)	1000
N4NY-005-9-M	N4NY-005-0-M	.312	(7.9)	.441	(11.2)	.050	(1.3)	.375	(9.5)	.170	(4.3)	.218	(5.5)	1000
N4NY-006-9-M	N4NY-006-0-M	.375	(9.5)	.464	(11.8)	.050	(1.3)	.375	(9.5)	.170	(4.3)	.218	(5.5)	1000
N4NY-007-9-M	N4NY-007-0-M	.437	(11.1)	.500	(12.7)	.050	(1.3)	.375	(9.5)	.170	(4.3)	.218	(5.5)	1000
N4NY-008-9-M	N4NY-008-0-M	.500	(12.7)	.530	(13.5)	.050	(1.3)	.375	(9.5)	.170	(4.3)	.218	(5.5)	1000
N4NY-002B-9-M	N4NY-002B-0-M	.125	(3.2)	.343	(8.7)	.050	(1.3)	.375	(9.5)	.203	(5.2)	.218	(5.5)	1000
N4NY-003B-9-M	N4NY-003B-0-M	.187	(4.8)	.378	(9.6)	.050	(1.3)	.375	(9.5)	.203	(5.2)	.218	(5.5)	1000
N4NY-004B-9-M	N4NY-004B-0-M	.250	(6.4)	.421	(10.7)	.050	(1.3)	.375	(9.5)	.203	(5.2)	.218	(5.5)	1000
N4NY-005B-9-M	N4NY-005B-0-M	.312	(7.9)	.441	(11.2)	.050	(1.3)	.375	(9.5)	.203	(5.2)	.218	(5.5)	1000
N4NY-006B-9-M	N4NY-006B-0-M	.375	(9.5)	.464	(11.8)	.050	(1.3)	.375	(9.5)	.203	(5.2)	.218	(5.5)	1000
14NY-007B-9-M	N4NY-007B-0-M	.437	(11.1)	.500	(12.7)	.050	(1.3)	.375	(9.5)	.203	(5.2)	.218	(5.5)	1000
14NY-008B-9-M	N4NY-008B-0-M	.500	(12.7)	.530	(13.5)	.050	(1.3)	.375	(9.5)	.203	(5.2)	.218	(5.5)	1000
16NY-004C-9-M	N6NY-004C-0-M	.250	(6.4)	.437	(11.1)	.060	(1.5)	.500	(12.7)	.203	(5.2)	.218	(5.5)	1000
16NY-005C-9-M	N6NY-005C-0-M	.312	(7.9)	.474	(12.0)	.060	(1.5)	.500	(12.7)	.203	(5.2)	.218	(5.5)	1000
N6NY-006C-9-M	N6NY-006C-0-M	.375	(9.5)	.500	(12.7)	.060	(1.5)	.500	(12.7)	.203	(5.2)	.218	(5.5)	1000
N6NY-007C-9-M	N6NY-007C-0-M	.437	(11.1)	.533	(13.5)	.060	(1.5)	.500	(12.7)	.203	(5.2)	.218	(5.5)	1000
16NY-008C-9-M	N6NY-008C-0-M	.500	(12.7)	.553	(14.1)	.060	(1.5)	.500	(12.7)	.203	(5.2)	.218	(5.5)	1000
N6NY-009-9-M	N6NY-009-0-M	.562	(14.3)	.603	(15.3)	.060	(1.5)	.500	(12.7)	.203	(5.2)	.218	(5.5)	1000
N6NY-010-9-M	N6NY-010-0-M	.625	(15.9)	.625	(15.9)	.060	(1.5)	.500	(12.7)	.203	(5.2)	.218	(5.5)	1000
N6NY-011-9-M	N6NY-011-0-M	.687	(17.4)	.665	(16.9)	.060	(1.5)	.500	(12.7)	.203	(5.2)	.218	(5.5)	1000
N6NY-012-9-M	N6NY-012-0-M	.750	(19.1)	.699	(17.8)	.060	(1.5)	.500	(12.7)	.203	(5.2)	.218	(5.5)	1000
N6NY-013-9-M	N6NY-013-0-M	.812	(20.6)	.765	(19.9)	.060	(1.5)	.500	(12.7)	.203	(5.2)	.218	(5.5)	1000
N6NY-014-9-M	N6NY-014-0-M	.875	(22.2)	.795	(20.2)	.060	(1.5)	.500	(12.7)	.203	(5.2)	.218	(5.5)	1000
N6NY-016-9-M	N6NY-016-0-M	1.000	(25.4)	.825	(20.9)	.060	(1.5)	.500	(12.7)	.203	(5.2)	.218	(5.5)	1000
N6NY-018-9-D	N6NY-018-0-D	1.125	(28.6)	.940	(23.8)	.060	(1.5)	.500	(12.7)	.203	(5.2)	.218	(5.5)	500
N6NY-019-9-D	N6NY-019-0-D	1.187	(30.1)	.963	(24.5)	.060	(1.5)	.500	(12.7)	.203	(5.2)	.218	(5.5)	500
N6NY-020-9-D	N6NY-020-0-D	1.250	(31.8)	.980	(24.9)	.060	(1.5)	.500	(12.7)	.203	(5.2)	.218	(5.5)	500
N6NY-022-9-D	N6NY-022-0-D	1.375	(34.9)	1.045	(26.5)	.060	(1.5)	.500	(12.7)	.203	(5.2)	.218	(5.5)	500
N6NY-024-9-D	N6NY-024-0-D	1.500	(38.1)	1.114	(28.3)	.060	(1.5)	.500	(12.7)	.203	(5.2)	.218	(5.5)	500
Tolerance ±		.010 (.254)	.030 (.762)	.005 (.127)	.015 (.381)	.010 (.254)	.030 (.762)							



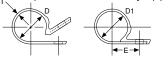
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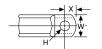
Cable Clamps and Clips



Self-Aligning Cable Clamps

- Molded-In saddle washer enhances performance and appearance.
- Self-Alignment feature makes this , clamp ideal for assembly applications.





- 14 diameters and 2 widths with mounting holes for #4 through #10 screws.
- UL Flammability W.NY 94 V-2; W.TZ 94 V-0.
- Stocked in Natural and heat stabilized black 6/6 Nylon, and DuPont Tefzel for highest heat applications.
- Item numbers molded-in for easy identification.

		Noi	D ninal	CI	D1 osed		E		Т		W	н	H lole _.		X	Bulk
Cat Na	Motovial	-	meter (mm)		meter (mm)	Inch	(kness		/idth		meter	Inch	(Pkg.
Cat. No. W4NY-125-9-M	Material	Inch	(mm)	Inch	(mm)	.333	(mm)	Inch	(mm)	Inch	(mm)	.167	(mm)	Inch .257	(mm)	Qty. 1000
	Natural Nylon	.125	(3.17)	.114 .172	(2.89)	.333	(8.46)	.040	(1.02)	.375	(9.52)	.167	(4.24)		(6.53)	
W4NY-187-9-M W4NY-250-9-M	Natural Nylon Natural Nylon	.187	(4.76)	.172	(4.36)	.300	(9.02)	.040	(1.02)	.375 .375	(9.52)	.167	(4.24)	.218 .190	(5.53)	1000
	Natural Nylon	.250	()	.234	(7.54)	.302	(10.71)	.040	(1.02)	.375	()	.167	(4.24)	.190	(4.03)	1000
W4NY-312-9-M	,	.375	(7.93)	.297	()	.422	(10.71)	.040	(1.02)	.375	(9.52)	.167	(4.24)	.205	(5.33)	1000
W4NY-375-9-M W4NY-500-9-M	Natural Nylon Natural Nylon	.375	(9.52)	.359	(9.11) (12.29)	.454	(11.53)	.040	(1.02)	.375	(9.52)	.167	(4.24)	.210	(5.33)	1000
	,		(,		(-)		(-)		(•)	.575	()	.203	(/		· /	
W6NY-187-9-M	Natural Nylon	.187	(4.76)	.172	(4.36)	.375	(9.52)	.060	(1.52)	.500	(12.69)	.203	(5.15)	.241	(6.12)	1000
W6NY-250-9-M W6NY-312-9-M	Natural Nylon	.250	(6.34)	.234	(5.94)	.407	(10.34) (11.30)	.060	(1.52)	.500	(12.69)	.203	(5.15)	.241	(6.12)	1000
	Natural Nylon	.375	(/	.359	(-)	.445	· /		(-)	.500	()	.203	(/		· /	1000
W6NY-375-9-M	Natural Nylon	.375	(9.52)	.359	(9.11) (10.71)	.484	(12.29)	.060	(1.52)	.500	(12.69)	.203	(5.15)	.291 .263	(7.39)	
W6NY-437-9-M	Natural Nylon		(11.11)		(' /	-	(/		1 - 1		1		· /		()	1000
W6NY-500-9-M	Natural Nylon	.500	(12.69)	.484	(12.29)	.560	(14.22)	.060	(1.52)	.500	(12.69)	.203 .203	(5.15)	.272	(6.91)	1000
W6NY-562-9-M	Natural Nylon	.562	(14.28)	.547	(13.90)	.657	(16.68)	.060	(1.52)	.500	(12.69)	.203	(5.15)	.236	(5.99)	1000
W6NY-625-9-M	Natural Nylon	.625	(15.87)	.609	(15.46)	.637	(16.17)	.060	(1.52)	.500	(12.69)		(5.15)	.290	(7.37)	1000
W6NY-687-9-M	Natural Nylon	.687	(17.46)	.672	(17.06)	.694	(17.63)	.060	(1.52)	.500	(12.69)	.203	(5.15)	.327 .326	(8.31)	1000
W6NY-750-9-M	Natural Nylon	.750	(19.04)	.734	(18.64)	.726	(18.44)	.060	(1.52)	.500	(12.69)	.203	(5.15)	.320	(8.28)	1000
W6NY-812-9-M W6NY-875-9-D	Natural Nylon	.812	(20.63)	.859	(20.24)	.776 .733	(19.71) (18.62)	.060	(1.52)	.500	(12.69)	.203	(5.15) (5.15)	.323	()	1000 500
	Natural Nylon	1.000	(/	.039	(21.81)	.735	(22.38)		()		· /		()		(7.87)	500
W6NY-1000-9-D	Natural Nylon	1.250	(25.39)	1.227	(24.99)	1.010	· /	.060	(1.52)	.500	(12.69)	.203 .203	(5.15)	.292	(7.42)	500
W6NY-1250-9-D W4NY-125-0-M	Natural Nylon	.1250	(31.73)		(31.16)	.333	(25.65)	.060	(1.52)	.500 .375	(12.69)	.203	(5.15)	.339 .257	(8.61)	1000
	Heat Stabilized Black Nylon		(3.17)	.114 .172	(2.89)		(8.46)	.040	(/		· /		(/		(6.53)	
W4NY-187-0-M	Heat Stabilized Black Nylon	.187	(4.76)	.172	(4.36)	.355 .382	(9.02)		(1.02)	.375	(9.52)	.167	(4.24)	.218 .190	(5.53)	1000
W4NY-250-0-M W4NY-312-0-M	Heat Stabilized Black Nylon	.250	(6.34)	.234	(5.94) (7.54)	.382	(10.71)	.040	(1.02)	.375 .375	(9.52)	.167	(4.24)	.190	(4.83)	1000
	Heat Stabilized Black Nylon	.312	(7.93)	.297	(7.54)	.422	(10.71)	.040	(1.02)	.375	· /	.167	(4.24)	.205	(5.21)	1000
W4NY-375-0-M	Heat Stabilized Black Nylon		(1.1.7)	.359	(.)		()		(')	.375	(9.52)	.167	()	.210	()	
W4NY-500-0-M W6NY-187-0-M	Heat Stabilized Black Nylon	.500 .187	(12.69)	.484	(12.29)	.490 .375	(12.45)	.040	(1.02)	.375	(9.52)	.167	(4.24)	.200	(6.76)	1000
	Heat Stabilized Black Nylon	.107	(4.76)	.172	(4.36)	.407	(9.52)		(1.52)		· /	.203	(5.15)		(6.12)	
W6NY-250-0-M	Heat Stabilized Black Nylon		(6.34)	.234	(5.94)		(10.34)	.060	(1.52)	.500	(12.69)	.203	(5.15)	.241	(6.12)	1000
W6NY-312-0-M W6NY-375-0-M	Heat Stabilized Black Nylon Heat Stabilized Black Nylon	.312	(7.93)	.359	(7.54) (9.11)	.445 .484	(11.30) (12.29)	.060	(1.52)	.500	(12.69)	.203	(5.15) (5.15)	.280 .291	(7.11) (7.39)	1000
W6NY-437-0-M	,	.375	()	.309	(10.71)	.404	(12.29)	.060	(1.52)	.500	(12.69)	.203	(5.15)	.291	(6.68)	1000
	Heat Stabilized Black Nylon	.437	(11.11) (12.69)	.422	(10.71)	.522	(13.23)	.060	(1.52)	.500	· /	.203	(5.15)	.203	(6.91)	1000
W6NY-500-0-M W6NY-562-0-M	Heat Stabilized Black Nylon Heat Stabilized Black Nylon	.500	(12.69)	.484	(12.29)	.560	(14.22)	.060	(1.52)	.500	(12.69)	.203	(5.15)	.272	(5.99)	1000
		.502	(14.28)	.547	(13.90)	.637	(16.08)	.060	(1.52)	.500	(12.69)	.203	(5.15)	.236	(5.99)	1000
W6NY-625-0-M	Heat Stabilized Black Nylon		()		()		· /		(/		· /	.203		.290	· /	
W6NY-687-0-M	Heat Stabilized Black Nylon	.687	(17.46)	.672	(17.06)	.694 .726	(17.63)	.060	(1.52)	.500	(12.69)	.203	(5.15)		(8.31)	1000
W6NY-750-0-M	Heat Stabilized Black Nylon	.750	(19.04)	.734	(18.64)		(18.44)	.060	(1.52)	.500	(12.69)		(5.15)	.326	(8.28)	1000
W6NY-812-0-M	Heat Stabilized Black Nylon	.812	(20.63)	.797	(20.24)	.776	(19.71)	.060	(1.52)	.500	(12.69)	.203	(5.15)	.323	(8.20)	1000
W6NY-875-0-D	Heat Stabilized Black Nylon	.875	(22.22)	.859	(21.81)	.733	(18.62)	.060	(1.52)	.500	(12.69)	.203	(5.15)	.310	(7.87)	500
W6NY-1000-0-D	Heat Stabilized Black Nylon	1.000	(25.39)	.984	(24.99)	.881	(22.38)	.060	(1.52)	.500	(12.69)	.203	(5.15)	.292	(7.42)	500
W6NY-1250-0-D	Heat Stabilized Black Nylon	1.250	(31.73)	1.227	(31.16)	1.010	(25.65)	.060	(1.52)	.500	(12.69)	.203	(5.15)	.339	(8.61)	500
Tolerance ±				.010	(.254)	.030	(.762)	.005	(.127)	.015	(.381)	.010	(.254)	.030	(.762)	

(Continued)



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Cable Clamps and Clips

			n	-	D-1		-		T		w				v	
		Nor	D ninal meter	CI	D1 osed meter		E		T kness		W /idth	Н	H ole meter		X	Bulk Pkg.
Cat. No.	Material	Inch	(mm)	Inch	(mm)	Inch	(mm)	Inch	(mm)	Inch	(mm)	Inch	(mm)	Inch	(mm)	Qty.
W4TZ-125-5-D	Tefzel	.125	(3.17)	.114	(2.89)	.333	(8.46)							.257	(6.53)	500
W4TZ-187-5-D	Tefzel	.187	(4.76)	.172	(4.36)	.355	(9.02)							.218	(5.53)	500
W4TZ-250-5-D	Tefzel	.250	(6.34)	.234	(5.94)	.382	(9.70)	.040	(1.02)	.375	(9.52)	.167	(4.24)	.190	(4.83)	500
W4TZ-312-5-D	Tefzel	.312	(7.93)	.297	(7.54)	.422	(10.71)							.205	(5.21)	500
W4TZ-375-5-D	Tefzel	.375	(9.52)	.359	(9.11)	.454	(11.53)							.210	(5.33)	500
W4TZ-500-5-D	Tefzel	.500	(12.69)	.484	(12.29)	.490	(12.45)							.266	(6.76)	500
W6TZ-187-5-D	Tefzel	.187	(4.76)	.172	(4.36)	.375	(9.52)							.241	(6.12)	500
W6TZ-250-5-D	Tefzel	.250	(6.34)	.234	(5.94)	.407	(10.34)									500
W6TZ-312-5-D	Tefzel	.312	(7.93)	.297	(7.54)	.445	(11.30)							.280	(7.11)	500
W6TZ-375-5-D	Tefzel	.375	(9.52)	.359	(9.11)	.484	(12.29)	.060	(1.52)	.500	(12.69)	.203	(5.15)	.291	(7.39)	500
W6TZ-437-5-D	Tefzel	.437	(11.11)	.422	(10.71)	.522	(13.25)							.263	(6.68)	500
W6TZ-500-5-D	Tefzel	.500	(12.69)	.484	(12.29)	.560	(14.22)							.272	(6.91)	500
W6TZ-625-5-D	Tefzel	.625	(15.87)	.609	(15.46)	.637	(16.17)							.290	(7.37)	500
W6TZ-750-5-D	Tefzel	.750	(19.04)	.734	(18.64)	.726	(18.44)							.326	(8.28)	500
Tolerance ±	Tefzel			.010	(.254)	.030	(.762)	.005	(.127)	.015	(.381)	.010	(.254)	.030	(.762)	

• Tefzel is a Trademark of the DuPont Corporation

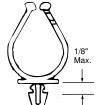
Patent No. 4535960.





Harnessing Accessories



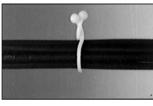


Mechanical-Locking Routing Clamps

Bulk Cat. No.	Mounting Hole Size	Maximum Wire Bundle Diameter (in.)	Width (in.)	Length (in.)	Bulk Pkg.
TC88	.250	.500	.250	.891	100
TC95	.250	1.000	.500	1.590	100

The locking clamp is available in several mounting styles, as shown. This clamp acts as a retainer during wire routing and as a positive clamp when desired. Anti-rotational peg is available.

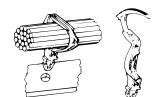
1/8" max Snap-in 1/4" hole



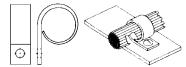
TL075

Twist-lock cable ties provide a quick and convenient method for binding wires together in light-duty applications. The reusable twistlock ties come in two mounting base versions. One for push-in mounting (%^{*} diameter hole) and one with an adhesive base.

J



Here is an inexpensive harness clip for grouping wires in appliances, office equipment and other noncritical applications. Designed to perform the same basic function as a cable tie in holding wires together, the new adjustable, self-locking clip requires no tools for installation. A projecting prong is simply pressed into a ¼" hole where it compresses and locks. The simple ratchet-type lock is released by moving the locking lever.

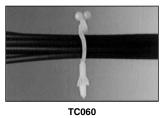


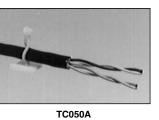
AC-loop retaining clamp is ideal to support long runs in point-to-point wiring or as a harness aid. Rigid PVC.

Twist-Lock Cable Ties

Cat. No.	Bundle Range (in.)	Std. Pkg.
TL075	11⁄16" to 3⁄4"	100
TC060	½" to %"	100
TC050A	1⁄8" to 1⁄32"	100

Note: For TC060 use .188 (3/16") mounting hole.





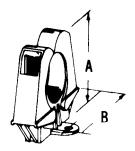
Harness ClipsBulk
Cat. No.Mounting
Hole SizeMaximum Wire
Bundle Diameter
(in.)Bulk
Pkg.HCP438¼.3751000

HBundle	-Retaining Cla	mp		
Bulk Cat. No.	Mounting Method	Maximum Wire Bundle Diameter (in.)	Width (in.)	Bulk Pkg.
TC70	#10 screw	.250	.400	100
TC71	#10 screw	.500	.400	100
TC72	#10 screw	.750	.500	100
TC73	#10 screw	1.000	.500	100
TC74	#10 screw	1.500	.500	100

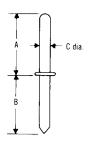


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Harnessing Accessories







Wire-Bundle Retainers

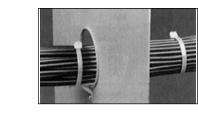
Bulk Cat. No.	Fastener	Maximum Wire Bundle Diameter (in.)	Width (in.)	Height (in.)	Bulk Pkg.
TC86	#6 screws	.750	1.750	1.813	25
TC87	#6 screws	1.250	2.469	2.281	10

These retainers consist of a spring-loaded clip and an elastic bundle support. Wires are inserted simply by snapping them through spring-loaded clips. Wires are held $\frac{1}{2}$ inch above work surface for easy tying.

Harness	-Board Nails			
Bulk Cat. No.	A (in.)	Dimensions B (in.)	C (in.)	Bulk Pkg.
HBP34	.750	.625	.072	100
HBP-1	1.000	.625	.072	100
HBP112	1.500	.625	.082	100
HBP2	2.000	.625	.092	100
HBP212	2.500	.625	.105	100
HBP3	3.000	.625	.120	100

Hardened, nickel plated steel.

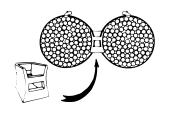
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Bulk Cat. No.	Mounting Method	Maximum Tie Width Accom.	Width (in.)	Length (in.)	Bulk Pkg.
TC131	#6 screw	.190	1.115	1.890	1000

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



Wire-Bu	ndle Spacer				
Cat. No.	Maximum Tie Width Accom.	Width (in.)	Length (in.)	Std. Pkg.	Bulk Pkg.
TC5339	.190	.266	.500	100	500

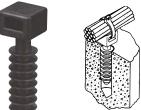


Mounting Bases for Heavy-Duty Applications



Ty-Rap [®]	Ty-Rap [®] Mounting Base for Lashing Tie										
Cat. No.	Mounting Method	Maximum Tie Width Accom.	Width (in.)	Length (in.)	Std. Pkg.						
TC5355	#8 screw	.500	.750	1.125	25						
TC5356	#10 screw	.500	.750	1.125	25						
TC5357	1/4 screw	.500	.750	1.125	25						

Weather-resistant nylon mounting base for use with lashing tie Cat. No. TY-5409 (.500" wide).



Ty-Rap®/Ty-Fast®

vo sizes to stock-reduces invent

Only two sizes to stock-reduces inventory The new base features a specially designed head which is range-taking. Just two sizes can accommodate virtually all of your cable-to-masonry clamping needs.

Ty-Rap[®] Mounting Base for Masonry and Brick Surfaces Hole Maximum

Cat. No.	Size in Masonry	Tie Width Accom.	Std. Pkg.	
TC5358	1⁄4	.190	100	
TC5359	3⁄8	.500	50	

- Quick, easy installation without adhesives or epoxies.
- Provides a quick, easy means of attaching cable and wires to masonry surfaces.
- Installs simply 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.
- Provides quick, dependable merchanical installation.
- Replaces a variety of anchors, clamps, screws, and adhesives.
- Designed for both indoor and outdoor applications made of a special impact and ultraviolet resistant black nylon, the new base is designed for both indoor and outdoor use, in addition, shelf life is indefinite because it uses no adhesives.

Framing Channel Clamp



Mounting bases for heavy duty applications are made from high-impact weatherresistant nylon.

When fastening wire bundles, cables, or hoses to framing channels, you can cut costs considerably by using the Ty-Rap[®] cable clamp. It is made of smooth, weather-resistant nylon and designed to protect cable insulation and hoses from wear or damage as can occur with metal clamps. The clamp may be used for both indoor or outdoor applications. It installs in the framing channel with a simple push and twist. It requires no screws, nuts or tools. The clamp fits all 1½" and 1%" channels regardless of channel depth.

Cat. No.	Channel Size	Maximum Tie Width Accom.	Std. Pkg.	
TC5363X	1.5 & 1.625	.301	50	



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- Installs with a push and twist
- Designed for indoor or outdoor use
- Smooth design protects cable insulation
 Takes range of cable diameters

Thomas®Betts **Mounting Bases for Heavy-Duty Applications**



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

- Features and Benefits Fast, easy installation, using standard %" power drill
- Custom drill bit quickly installs base to Custom and bulkers instants base to proper torque—won't crack or break mounting base due to being overtightened
 Unlimited harnessing flexibility using conventional T&B cable ties
- Unique 4-way multi-directional design
- Ondue 4-way main relative to the total design of the total design of the total design of the total design of the total design for reliable installation onto study of the total design of total design of the total design of total design of the total design of total d
- High pull-out strength of 500 + lbs
- Custom application tool for standard %"
- power drill Material: Black 6/6 Nylon

Fast, easy wire management to last for the long haul.

Thomas & Betts' Stud Mount Fastening System is a fast and simple harnessing method for neat, versatile wire management. Using a custom drill bit for your 3/8" power drill, the Stud Mount base is quickly attached onto a stud 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 ten separate lashing positions, the Stud Mount offers unlimited wire harnessing arrangements. T&B's Stud Mount is available in four convenient stud bolt sizes.



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

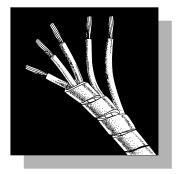


Virtually unlimited harnessing flexibility is provided in the unique 10-position harness design of the Stud Mount base

Ordering I	nformation			
Cat. No.	Description	Stud Size	Material	Color
XMNY-375-0-D	Mount Fastener	3/8	Nylon 6/6, UV Stabilized	Black
XMNY-500-0-D	Mount Fastener	1/2	Nylon 6/6, UV Stabilized	Black
XMNY-625-0-D	Mount Fastener	5⁄8	Nylon 6/6, UV Stabilized	Black
XMNY-750-0-D	Mount Fastener	3/4	Nylon 6/6, UV Stabilized	Black
WTXM	Application Tool	-	Tool Steel	-

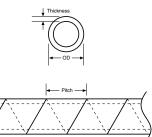


Wire Protection Products



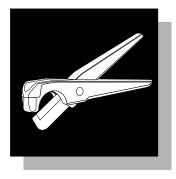
Spiral Wrap

- For protection of bundles from .063" to 7".
- Install gapped for greater flexibility or butted for maximum abrasion resistance, insulation and rigidity.
- Stocked in 3 materials including Polyethylene and 6/6 Nylon.
- a.k.a.: Reverse cut, left-hand cut, counter clockwise cut.
- Use cutting tool SR-100.



			tside meter	Pi	tch		al Wall kness			lin./M 1dle R			UL
Cat. No.	Material	Inch	(mm)	Inch	(mm)	Inch	(mm)	Inch	(mm)		Inch	(mm)	Flammability
SRPE-125-9-C													
SRPE-187-9-C	Natural Polyethylene	.187	(4.8)	.240	(6.1)	.040	(1.0)	.125	(3.2)	to	1.500	(25.9)	94 HB
SRPE-250-9-C	Natural Polyethylene	.250	(6.4)	.375	(9.5)	.045	(1.1)	.188	(4.8)	to	2.000	(50.8)	94 HB
SRPE-375-9-C	Natural Polyethylene	.375	(9.5)	.438	(11.1)	.052	(1.3)	.313	(7.9)	to	3.000	(76.2)	94 HB
SRPE-500-9-C	Natural Polyethylene	.500	(12.7)	.563	(14.3)	.062	(1.6)	.375	(9.5)	to	4.000	(102.0)	94 HB
SRPE-625-9-C	Natural Polyethylene	.625	(15.9)	.625	(15.9)			.625	(15.9)	to	4.500	(114.3)	94 HB
SRPE-750-9-C	Natural Polyethylene	.750	(19.1)	.750	(19.1)	.065	(1.7)	.750	(19.1)	to	5.000	(127.0)	94 HB
SRPE-1000-9-C	Natural Polyethylene	1.000	(25.4)	1.110	(28.2)	.070	(1.8)	1.000	(25.4)	to	7.000	(177.8)	94 HB
SRPE-125-0-C													
SRPE-187-0-C	UV Black Polyethylene	.187	(4.8)	.240	(6.1)	.040	(1.0)	.125	(3.2)	to	1.500	(25.9)	94 HB
SRPE-250-0-C	UV Black Polyethylene	.250	(6.4)	.375	(9.5)	.045	(1.1)	.188	(4.8)	to	2.000	(50.8)	94 HB
SRPE-375-0-C	UV Black Polyethylene	.375	(9.5)	.438	(11.1)	.052	(1.3)	.313	(7.9)	to	3.000	(76.2)	94 HB
SRPE-500-0-C	UV Black Polyethylene	.500	(12.7)	.563	(14.3)	.062	(1.6)	.375	(9.5)	to	4.000	(102.0)	94 HB
SRPE-625-0-C	UV Black Polyethylene	.625	(15.9)	.625	(15.9)			.625	(15.9)	to	4.500	(114.3)	94 HB
SRPE-750-0-C	UV Black Polyethylene	.750	(19.1)	.750	(19.1)	.065	(1.7)	.750	(19.1)	to	5.000	(127.0)	94 HB
SRPE-1000-0-C	UV Black Polyethylene	1.000	(25.4)	1.110	(28.2)	.070	(1.8)	1.000	(25.4)	to	7.000	(177.8)	94 HB
SRNY-250-9-C	Natural Nylon 6/6	.250	(6.4)	.375	(9.5)	.025	(.6)	.187	(4.8)	to	2.000	(50.8)	94 HB
SRNY-375-9-C	Natural Nylon 6/6	.375	(9.5)	.438	(11.1)			.312	(7.9)	to	3.000	(76.2)	94 HB
SRNY-500-9-C	Natural Nylon 6/6	.500	(12.7)	.563	(14.3)	.035	(.9)	.375	(9.5)	to	4.000	(102.0)	94 HB
SRTL-250-WH-C	Teflon®	.250	(6.4)	.375	(9.5)	.030	(.76)	.188	(4.8)	to	2.000	(50.8)	94 V-0
SRTL-375-WH-C	Teflon®	.375	(9.5)	.438	(11.1)	.030	(.76)	.313	(7.9)	to	3.000	(76.2)	94 V-0
SRTL-500-WH-C	Teflon®	.500	(12.7)	.563	(14.3)	.030	(.76)	.375	(9.5)	to	4.000	(102.0)	94 V-0
SRTL-625-WH-C	Teflon®	.625	(15.9)	.625	(15.9)	.030	(.76)	.625	(15.9)	to	4.500	(114.3)	94 V-0
SRTL-750-WH-C	Teflon®	.750	(19.1)	.750	(19.1)	.030	(.76)	.750	(19.1)	to	5.000	(127.0)	94 V-0
Tolerance ±		.030	(.762)		.010	(.254)							

Stocked in 100 foot rolls.



SR-100 Cutting Tool

Use our SR-100 cutting tool for all your plastic pipe and PVC conduit needs to $11/4^{\circ}$ I.D.

Features:

• High-carbon,Teflon®-coated replaceable steel blade.

Cat. No.	Description
SR-100	Cutting Tool
SR-R	Replacement Blade

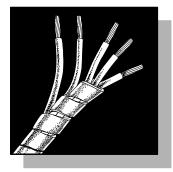
- Contoured handle resists tube crushing.
- Produces no "sawdust", no need to debur.
- Lightweight, low-profile and no exposed blade when stored.

Teflon® is a trademark of the DuPont Corporation.



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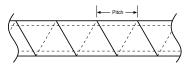
Wire Protection Products



Forward Cut Spiral Wrap

- For protection of bundles from .063" to 7".
- Install gapped for greater flexibility or butted for maximum abrasion resistance, insulation and rigidity.
- Available in 4 materials including Polyethylene, Nylon and Teflon[®].
- a.k.a.: Right-hand cut, clockwise cut.
- Use cutting tool SR-100.





		Outside Diameter		P	itch		al Wall kness			lin./M 1dle R			UL
Cat. No.	Material	Inch	(mm)	Inch	(mm)	Inch	(mm)	Inch	(mm)		Inch	(mm)	Flammability
SRPE-250-9-C	Natural Polyethylene	.250	(6.4)	.375	(9.5)	.045	(1.1)	.188	(4.8)	to	2.000	(50.8)	94 HB
SRPE-187F-9-C	Natural Polyethylene	.187	(4.8)	.240	(6.1)	.040	(1.0)	.125	(3.2)	to	1.500	(25.9)	94 HB
SRPE-250F-9-C	Natural Polyethylene	.250	(6.4)	.375	(9.5)	.045	(1.1)	.188	(4.8)	to	2.000	(50.8)	94 HB
SRPE-375F-9-C	Natural Polyethylene	.375	(9.5)	.438	(11.1)	.052	(1.3)	.313	(7.9)	to	3.000	(76.2)	94 HB
SRPE-500F-9-C	Natural Polyethylene	.500	(12.7)	.563	(14.3)	.062	(1.6)	.375	(9.5)	to	4.000	(102.0)	94 HB
SRPE-625F-9-C	Natural Polyethylene	.625	(15.9)	.625	(15.9)	.062	(1.6)	.625	(15.9)	to	4.500	(114.3)	94 HB
SRPE-750F-9-C	Natural Polyethylene	.750	(19.1)	.750	(19.1)	.065	(1.7)	.750	(19.1)	to	5.000	(127.0)	94 HB
SRPE-1000F-9-C	Natural Polyethylene	1.000	(25.4)	1.110	(28.2)	.070	(1.8)	1.000	(25.4)	to	7.000	(177.8)	94 HB
SRPE-187F-0-C	UV Black Polyethylene	.187	(4.8)	.240	(6.1)	.040	(1.0)	.125	(3.2)	to	1.500	(25.9)	94 HB
SRPE-250F-0-C	UV Black Polyethylene	.250	(6.4)	.375	(9.5)	.045	(1.1)	.188	(4.8)	to	2.000	(50.8)	94 HB
SRPE-375F-0-C	UV Black Polyethylene	.375	(9.5)	.438	(11.1)	.052	(1.3)	.313	(7.9)	to	3.000	(76.2)	94 HB
SRPE-500F-0-C	UV Black Polyethylene	.500	(12.7)	.563	(14.3)	.062	(1.6)	.375	(9.5)	to	4.000	(102.0)	94 HB
SRPE-625F-0-C	UV Black Polyethylene	.625	(15.9)	.625	(15.9)	.062	(1.6)	.625	(15.9)	to	4.500	(114.3)	94 HB
SRPE-750F-0-C	UV Black Polyethylene	.750	(19.1)	.750	(19.1)	.065	(1.7)	.750	(19.1)	to	5.000	(127.0)	94 HB
SRPE-1000F-0-C	UV Black Polyethylene	1.000	(25.4)	1.110	(28.2)	.070	(1.8)	1.000	(25.4)	to	7.000	(177.8)	94 HB
SRFR-187F-WH-C	White Flame Retardant Polyethylene	.187	(4.8)	.240	(6.1)	.040	(1.0)	.125	(3.2)	to	1.500	(25.9)	94 V-0
SRFR-250F-WH-C	White Flame Retardant Polyethylene	.250	(6.4)	.375	(9.5)	.045	(1.1)	.188	(4.8)	to	2.000	(50.8)	94 V-0
SRFR-375F-WH-C	White Flame Retardant Polyethylene	.375	(9.5)	.438	(11.1)	.052	(1.3)	.313	(7.9)	to	3.000	(76.2)	94 V-0
SRFR-500F-WH-C	White Flame Retardant Polyethylene	.500	(12.7)	.563	(14.3)	.062	(1.6)	.375	(9.5)	to	4.000	(102.0)	94 V-0
SRTL-250-F-9-C	Teflon®	.250	(6.4)	.375	(9.5)	.030	(.76)	.188	(4.8)	to	2.000	(50.8)	94 V-0
SRTL-375-F-9-C	Teflon®	.375	(9.5)	.438	(11.1)	.030	(.76)	.313	(7.9)	to	3.000	(76.2)	94 V-0
SRTL-500-F-9-C	Teflon®	.500	(12.7)	.563	(14.3)	.030	(.76)	.375	(9.5)	to	4.000	(102.0)	94 V-0
SRTL-625-F-9-C	Teflon®	.625	(15.9)	.625	(15.9)	.030	(.76)	.625	(15.9)	to	4.500	(114.3)	94 V-0
SRTL-750-F-9-C	Teflon®	.750	(19.1)	.750	(19.1)	.030	(.76)	.750	(19.1)	to	5.000	(127.0)	94 V-0
Tolerance ±		.030	(.762)		.010	(.254)							

• Stocked in 100 foot rolls.

Polyethylene

For general indoor use to 122°F. Wrap is flexible and easy to work with. UV Polyethylene TE

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

TEFLON®

PTFE Flexible Industrial Tubing meets or exceeds ASTM D 3295. 260°C -240°C

Flame Retardant Polyethylene

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

Nylon 6/6

Offers highest abrasion resistance and rigidity. Selfextinguishing to UL 94 HB and a Recognized Component.

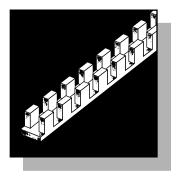


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Ty-Rap®/Ty-Fast®



Wire Protection Products

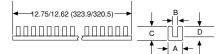


• Tefzel is a Trademark of the DuPont Corporation.

Molded Grommeting

- Meets MS21266-(1-4)N.
- Available in 3 materials for panel thicknesses from .015" to .192".





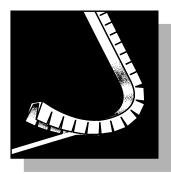
- Grommet is used to protect panel edges and knock-outs where the chafing of passing wires is a concern.
- Suitable for round hole or odd shape applications.
- Also Available in DuPont Tefzel®.

			A		В		C		D	For P Thick		Military Standard	Per
Cat. No.	Material	Inch	(mm)	Inch	(mm)	Inch	(mm)	Inch	(mm)	Inch	(mm)	Numbers	Pkg.
GSNY-052-9-C	Natural Nylon	.150	(3.81)	.056	(1.42)					.015 (.381) to	.052 (1.32)	MS-21266-1N	100
GSNY-085-9-C	Natural Nylon	.175	(4.44)	.090	(2.28)	.155	(3.93)	.100	(2.54)	.053 (1.34) to	.085 (2.15)	MS-21266-2N	100
GSNY-128-9-C	Natural Nylon	.220	(5.58)	.131	(3.32)					.086 (2.18) to	.128 (3.25)	MS-21266-3N	100
GSNY-192-9-C	Natural Nylon	.323	(8.20)	.192	(4.88)	.230	(5.84)	.162	(4.12)	.128 (3.25) to	.192 (4.88)	MS-21266-4N	100
GSTZ-052-9-C	Natural Tefzel®	.150	(3.81)	.056	(1.42)					.015 (.381) to	.052 (1.32)	-	100
GSTZ-085-9-C	Natural Tefzel®	.175	(4.44)	.090	(2.28)	.155	(3.93)	.100	(2.54)	.053 (1.34) to	.085 (2.15)	-	100
GSTZ-128-9-C	Natural Tefzel®	.220	(5.58)	.131	(3.32)					.086 (2.18) to	.128 (3.25)	-	100
GSTZ-192-9-C	Natural Tefzel®	.323	(8.20)	.192	(4.88)	.230	(5.84)	.162	(4.12)	.128 (3.25) to	.192 (4.88)	-	100
Tolerance		+.015	5005	(+.38	1127)	+.020	005	(+.508	3127)				

Ty-Rap®/Ty-Fast®



Wire Protection Products



Extruded Grommeting

• Used to line panel edges and knock-outs where the chafing of passing wires is a concern.



- Available in 8 stock sizes in 100 foot lengths for panels from .030" to .250" thick.
 A variety of stocked materials to cover a
- wide range of applications.
- Un-cut Polyethylene is ideal for protection of glass, sheet metal, wood panels or other sheet-form materials.

In most applications, grommeting will grip tightly by itself. If not, a touch of epoxy will keep it in place.

			A	C			D	E		
			el Thickness							UL
Cat. No.	Material	Inch	(mm)	Inch	(mm)	Inch	(mm)	Inch	(mm)	Flammability
GRNY-040-9-C	Natural Nylon	.040	(1.01)	.040	(1.01)	.190	(4.82)	.125	(3.17)	94 V-2
GRNY-052-9-C	Natural Nylon	.052	(1.32)	.040	(1.01)	.190	(4.82)	.125	(3.17)	94 V-2
GRNY-062-9-C	Natural Nylon	.062	(1.57)	.045	(1.14)	.200	(5.08)	.170	(4.32)	94 V-2
GRNY-085-9-C	Natural Nylon	.085	(2.15)	.045	(1.14)	.200	(5.08)	.170	(4.32)	94 V-2
GRNY-100-9-C	Natural Nylon	.100	(2.54)	.045	(1.14)	.220	(5.58)	.210	(5.33)	94 V-2
GRNY-125-9-C	Natural Nylon	.125	(3.17)	.050	(1.27)	.220	(5.58)	.205	(5.23)	94 V-2
GRNY-187-9-C	Natural Nylon	.187	(4.74)	.050	(1.27)	.270	(6.85)	.275	(6.98)	94 V-2
GRNY-250-9-C	Natural Nylon	.250	(6.35)	.050	(1.27)	.280	(7.11)	.370	(9.39)	94 V-2
GRNY-040-0-C	Black Nylon	.040	(1.01)	.040	(1.01)	.190	(4.82)	.125	(3.17)	94 V-2
GRNY-052-0-C	Black Nylon	.052	(1.32)	.040	(1.01)	.190	(4.82)	.125	(3.17)	94 V-2
GRNY-062-0-C	Black Nylon	.062	(1.57)	.045	(1.14)	.200	(5.08)	.170	(4.32)	94 V-2
GRNY-085-0-C	Black Nylon	.085	(2.15)	.045	(1.14)	.200	(5.08)	.170	(4.32)	94 V-2
GRNY-100-0-C	Black Nylon	.100	(2.54)	.045	(1.14)	.220	(5.58)	.210	(5.33)	94 V-2
GRNY-125-0-C	Black Nylon	.125	(3.17)	.050	(1.27)	.220	(5.58)	.205	(5.23)	94 V-2
GRNY-187-0-C	Black Nylon	.187	(4.74)	.050	(1.27)	.270	(6.85)	.275	(6.98)	94 V-2
GRNY-250-0-C	Black Nylon	.250	(6.35)	.050	(1.27)	.280	(7.11)	.370	(9.39)	94 V-2
GRPE-040-9-C	Natural Polyethylene	.040	(1.01)	.040	(1.01)	.190	(4.82)	.125	(3.17)	94 HB
GRPE-052-9-C	Natural Polyethylene	.052	(1.32)	.040	(1.01)	.190	(4.82)	.125	(3.17)	94 HB
GRPE-062-9-C	Natural Polyethylene	.062	(1.57)	.045	(1.14)	.200	(5.08)	.170	(4.32)	94 HB
GRPE-085-9-C	Natural Polyethylene	.085	(2.15)	.045	(1.14)	.200	(5.08)	.170	(4.32)	94 HB
GRPE-100-9-C	Natural Polyethylene	.100	(2.54)	.045	(1.14)	.220	(5.58)	.210	(5.33)	94 HB
GRPE-125-9-C	Natural Polyethylene	.125	(3.17)	.050	(1.27)	.220	(5.58)	.205	(5.23)	94 HB
GRPE-187-9-C	Natural Polyethylene	.187	(4.74)	.050	(1.27)	.270	(6.85)	.275	(6.98)	94 HB
GRPE-250-9-C	Natural Polyethylene	.250	(6.35)	.050	(1.27)	.280	(7.11)	.370	(9.39)	94 HB
GRUPE-040-9-C	Un-Cut Polyethylene	.040	(1.01)	.040	(1.01)	.190	(4.82)	.125	(3.17)	94 HB
GRUPE-052-9-C	Un-Cut Polyethylene	.052	(1.32)	.040	(1.01)	.190	(4.82)	.125	(3.17)	94 HB
GRUPE-062-9-C	Un-Cut Polyethylene	.062	(1.57)	.045	(1.14)	.200	(5.08)	.170	(4.32)	94 HB
GRUPE-085-9-C	Un-Cut Polyethylene	.085	(2.15)	.045	(1.14)	.200	(5.08)	.170	(4.32)	94 HB
GRUPE-100-9-C	Un-Cut Polyethylene	.100	(2.54)	.045	(1.14)	.220	(5.58)	.210	(5.33)	94 HB
GRUPE-125-9-C	Un-Cut Polyethylene	.125	(3.17)	.050	(1.27)	.220	(5.58)	.205	(5.23)	94 HB
GRUPE-187-9-C	Un-Cut Polyethylene	.187	(4.74)	.050	(1.27)	.270	(6.85)	.275	(6.98)	94 HB
GRUPE-250-9-C	Un-Cut Polyethylene	.250	(6.35)	.050	(1.27)	.280	(7.11)	.370	(9.39)	94 HB
GRFR-040-WH-C	Flame Retardant Polyethylene	.040	(1.01)	.040	(1.01)	.190	(4.82)	.125	(3.17)	94 V-0
GRFR-052-WH-C	Flame Retardant Polyethylene	.052	(1.32)	.040	(1.01)	.190	(4.82)	.125	(3.17)	94 V-0
GRFR-062-WH-C	Flame Retardant Polyethylene	.062	(1.57)	.045	(1.14)	.200	(5.08)	.170	(4.32)	94 V-0
GRFR-085-WH-C	Flame Retardant Polyethylene	.085	(2.15)	.045	(1.14)	.200	(5.08)	.170	(4.32)	94 V-0
GRFR-100-WH-C	Flame Retardant Polyethylene	.100	(2.54)	.045	(1.14)	.220	(5.58)	.232	(5.33)	94 V-0
GRFR-125-WH-C	Flame Retardant Polyethylene	.125	(3.17)	.050	(1.27)	.220	(5.58)	.232	(5.32)	94 V-0
GRFR-187-WH-C	Flame Retardant Polyethylene	.187	(4.74)	.050	(1.27)	.270	(6.85)	.275	(6.98)	94 V-0
GRFR-250-WH-C	Flame Retardant Polyethylene	.250	(6.35))	.050	(1.27)	.280	(7.11)	.370	(9.39)	94 V-0
Tolerance		+.000 015	(+.000) (381)	±.007	(.178)	±.010	(.254)	+.015	(+.381) (000)	0110

• 100 feet per roll.



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Ty-Rap[®]/Ty-Fast[®]

Thomas Betts Braided Expandable Wire Sleeving

Product Description



Thomas & Betts braided expandable wire 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 is

Types of Materials

easily cut with a hot knife, which seals the end-preventing fraying. Ends can be secured using Ty-Rap[®] cable ties. Available in:

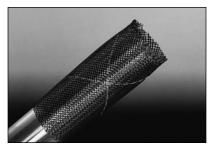
- either handy mini spools or bulk reels.
- eight sizes from 1/8" to 21/2" nominal I.D. size.
- solid or wraparound hook and loop braided expandable wire sleeving.

Ty-Rap®/Ty-Fast®

PET – Polyethylene terephthalate

A black 0.010" polyester monofilament material designed for indoor and outdoor applications. It is rated for continuous operating temp. -75°C to

125° C.



F – Flame Retardant Polyfyrepolyester

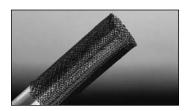
A 0.010" self-extinguishing polyester monofilament material that can be used indoors and outdoors. It is provided in black with white tracer for identification and is rated for continuous operating temp. -75°C to 125°C.

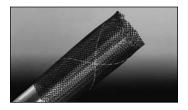
Catalog Number System

example, S250	PM-0			
<u>s</u>	<u>250</u>	<u>P</u>	M	<u>0</u>
Braided	Nominal	Material	Reel/Spool	Color
Expandable	I.D.	P = PET (Polyethylene	Size	O = Weather
Wire	Size	Terephthalate)	M = 1000 ft.	Resistant
Sleeving	125 = ½"	F = Flame-retardant	D = 500 ft.	Black
	250 = ¼"	polyester	K = 250 ft.	
	500 = ½"	PW = PET hook &	T = 200 ft.	
	750 = ³ / ₄ "	loop wrap-around	C = 100 ft.	
	1250 = 1¼"	sleeving.	L = 50 ft.	
	1750 = 1 ³ / ₄ "	FW = Flame retardant		
	2000 = 2"	polyester hook & loop		
	2500 = 2½"	wrap-around sleeving		



Braided Expandable Wire Sleeving



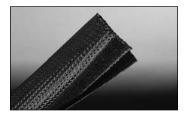


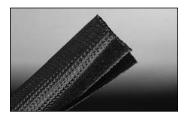
PET Braided Expandable Wire Sleeving – Mini Spool					
Cat. No.	Nominal I.D. (in.)	Color	Nominal Diameter Range (in.)	Spool Quantity	Std. Pkg.
S250PT-0	.250		.125 to .375	200 ft.	1
S500PC-0	.500	Black	.250 to .750	100 ft.	1
S750PC-0	.750		.500 to 1.250	100 ft.	1
S1250PL-0	1.250		.750 to 1.750	50 ft.	1

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Flame Retardant Braided Expandable Wire Sleeving – Mini Spool Nominal Diameter Range (in.) Spool Quantity Nominal I.D. Std. Pkg. Cat. No. (in.) Color S250FT-0 .250 .125 to .375 200 ft. Black 1 S500FC-0 .500 with .250 to .750 100 ft. S750FC-0 .750 White .500 to 1.250 100 ft. 1 .750 to 1.750 S1250FL-0 1.250 Tracer 50 ft. 1

Note: Order by spool, not per foot.





- Hook and loop fastener design allows for easy wrapping of existing wire harnesses and cables.
- Convenient for rework without disrupting existing connection.
 No tools required to close the sleeving.
 Hook and loop material is made of 100% nylon.

PET Hook and Loop, Wraparound Sleeving – Mini Spool					
Cat. No.	Nominal I.D. (in.)	Color	Nominal Diameter Range (in.)	Spool Quantity	Std. Pkg.
S500PWL-0	.500		.250 to .750	50 ft.	1
S750PWL-0	.750	Black	.500 to 1.250	50 ft.	1
S1250PWL-0	1.250		.750 to 1.750	50 ft.	1
S2000PWL-0	2.000		1.500 to 3.500	50 ft.	1

Flame Retardant Hook and Loop, Wraparound Sleeving -Mini Spool

Cat. No.	Nominal I.D. (in.)	Color	Nominal Diameter Range (in.)	Spool Quantity	Std. Pkg.
S500FWL-0	.500	Black	.250 to .750	50 ft.	1
S750FWL-0	.750	with	.500 to 1.250	50 ft.	1
S1250FWL-0	1.250	White	.750 to 1.750	50 ft.	1
S2000FWL-0	2.000	Tracer	1.500 to 3.500	50 ft.	1

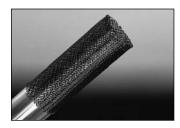
Note: Order by spool, not per foot.

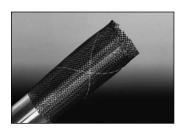


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Ty-Rap®/Ty-Fast®

Braided Expandable Wire Sleeving







WTBM



WTHH



PET Braided Expandable Wire Sleeving – Bulk Reel						
Cat. No.	Nominal I.D. (in.)	Color	Nominal Diameter Range (in.)	Reel Quantity	Std. Pkg.	
S125PM-0	.125		.094 to .250	1000 ft.	1	
S250PM-0	.250		.125 to .375	1000 ft.	1	
S500PD-0	.500		.250 to .750	500 ft.	1	
S750PK-0	.750	Black	.500 to 1.250	250 ft.	1	
S1250PK-0	1.250		.750 to 1.750	250 ft.	1	
S1750PT-0	1.750		1.250 to 2.750	200 ft.	1	
S2000PT-0	2.000		1.500 to 3.500	200 ft.	1	
S2500PT-0	2.500		1.750 to 4.500	200 ft.	1	

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Flame Retardant Braided Expandable Wire Sleeving -**Bulk Reel**

Cat. No.	Nominal I.D. (in.)	Color	Nominal Diameter Range (in.)	Reel Quantity	Std. Pkg.
S125FM-0	.125		.094 to .250	1000 ft.	1
S250FM-0	.250	Black	.125 to .375	1000 ft.	1
S500FD-0	.500	with	.250 to .750	500 ft.	1
S750FK-0	.750	White	.500 to 1.250	250 ft.	1
S1250FK-0	1.250	Tracer	.750 to 1.750	250 ft.	1
S1750FT-0	1.750		1.250 to 2.750	200 ft.	1
S2000FT-0	2.000		1.500 to 3.500	200 ft.	1
S2500FT-0	2.500		1.750 to 4.500	200 ft.	1

Note: order by reel, not per foot.

For other colors, lengths, sizes and materials please contact customer service.

Sleeving End Cutter/Sealer Tools

Cat. No.	Description	Std. Pkg.
WTBM	Bench mount end cutter/sealer tool, 110 volt AC	1
WTHH	Handheld hot knife end cutter/sealer tool 100 watt, 120 volt, complete with cutting blade	1
WTHH-B	Cutting/sealing blade for dual straight shank soldering guns	1

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



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Thomas Betts Cable Tie Installation Tools



- A wider insertion gap means easier tie insertion.
- 360° rotating nose allows the Ty-Gun[®] tool to be used in any position.
- Quick tension-adjustment wheel is located towards the front for easy access and fast changes.
- Adjustable handle span fits large and small hands.
- Anti-recoil mechanism reduces vibration shock.
 Weighs only 8.5 ounces, with a well-balanced
- weights only 0.5 concess, which a wein-balanced center of gravity.
 User friendly, smooth grip surface, with no
- o user irrenary, smooth grip surface, with no sharp edges.

Ty-Gun[®] Cable Tie Tool Attaches Cables Quickly Without Leaving Your Hand In Knots.

Break-Through Ergonomic Design Dramatically Relieves Stress And Strain.

Thomas & Bett's Ty-Gun[®] cable tie tool is designed to reduce hand and wrist muscle fatigue while securing cable ties with just the right amount of tension. Plus, its unique anti-recoil mechanism virtually eliminates the shock associated with other cable tie installing tools.

The Ty-Gun[®] tool is a major advancement in cable tie installation: an ergonomic hand tool that gets the job done quickly and easily while substantially reducing the risks of carpal tunnel syndrome and other cumulative trauma disorders.

Lighter Weight And Adjustable Handle Span Help Reduce Fatigue.

The advanced material design of the Ty-Gun® tool delivers a lighter weight of just 8.5 ounces, far less than most steel tools. Plus, the Ty-Gun® tool's impactresistant construction offers improved strength and a smoother fit and feel than conventional tools.

> The exclusive adjustable handle span of almost one-half inch means a more comfortable grip for every size hand of both men and women. The Tv-Gun® tool's wellbalanced center of gravity makes it rest easily in the operator's hand. And it requires a low handle force to secure cable ties with the right amount of tension,

Quick Tension Adjustment Mechanism Saves Time And Energy.

Cable tie tension can be quickly adjusted in less than a second with just a half turn of the Ty-Gun® tool's tension setting wheel, conveniently located toward the front of the tool for easier access. (Most tools on the market take a full 8 to 10 seconds to adjust.) And the ingenious design and integrity of materials ensure durability.

Locked-Tension Mechanism Reduces Recoil Vibrations.

The Ty-Gun[®] tool's tension mechanism virtually eliminates the shock of unwanted recoil.

The Ty-Gun[®] Nose Rotates 360° For The Most Comfortable Operating Position.

The fully-rotating front of the Ty-Gun® tool means operators can always hold the tool in the most comfortable position, regardless of the angle or position of the cable ties. This extra versatility reduces the strain and injuries associated with making repetitive motions in unnatural positions.

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Ty-Rap[®]/Ty-Fast[®]

Thoroughly Tested For Performance, Tie After Tie.

Field testing proves that the Ty-Gun® tool provides accurate tension and cleanly cuts off cable ties with an easy trigger action, even after 100,000 applications. The rotating nose and tension wheel have the durability you count on from Thomas & Betts.

For Maximum Performance, Select Thomas & Betts Ty-Rap[®] and Ty-Fast[®].

Together, Ty-Rap[®], Ty-Fast[®], and One-Piece cable ties offer the most complete package of cable ties and accessories in the market. The ideal match for the new Ty-Gun[®] tool.

from 18 to 120 pounds.

Cat. No.	Color	Tie Body Width
ERG 299	Black Handle:	18-50 lbs, .094184
ERG 297	Red Handle:	50-120 lbs, .184301
ED02041	Replacement Cutting Blade for ERG 297, ERG 299	-



Cable Tie Installation Tools



Installation Tools

WT193A Installation Tool						
Cat. No.	Description	Body Width (in.)	Std. Pkg.	Wt. Each		
WT193A	Pistol-type, easy tension adjustment, cuts tail off flush	.094184	1	10 oz.		

WT199/WT197 Installation Tool						
Cat. No.	Description	Body Width (in.)	Std. Pkg.	Wt. Each		
WT197A	Pistol-type, easy tension adjustment, cuts tail off flush	.301	1	10 oz.		
WT199A	Pistol-type, easy tension adjustment, cuts tail off flush	.094184	1	10 oz.		

WT1-TB/WT2-TB Installation Tool

Lightweight, hand-operated cable tying tools install cable ties up to .301 inch wide and .080 inch thick. Made of high-impact plastic and steel to withstand shock and rough handling, they are symmetrical in design for use by both left-hand and right-hand operators.

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

Cat. No.	Description	Body Width (in.)	Std. Pkg.	Wt. Each
WT1-TB	Compact hand tool made of high-impact	.094 thru .184	1	1¼ oz.
WT2-TB	plastic, preset tension, cuts off flush, lightweight and economical	.184301	1	1¼ oz.

Ty-Rap® Deltec and Stainless Steel Tool						
Cat. No.	Description	Body Width (in.)	Std. Pkg.	Wt. Each		
WT3D	Installs self-locking Ty-Rap [®] cable ties and Thomas & Betts 2-piece lashing ties.	.184 thru .500	1	8 oz.		
WT3S	Stainless steel cable tie installing tool.		1	8 oz.		

Stainless Steel Installation Tool				
Cat. No.	Description	Std. Pkg.		
DAS250	Installation Tool for Stainless Steel Ties	1		



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Ty-Rap®/Ty-Fast® **C**



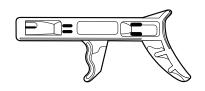
WT1-TB

WT2-TB

WT3D WT3S



Cable Tie Installation Tools



QC-100 (plastic)

Cable Tie Tool

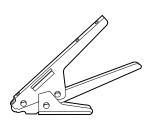
QC-100

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	Std. Pkg.	Wt. Ea.
QC-100	Cable Tie Tool, 18-50 lbs. tension Plastic Handle	.094184"	1	2.56 oz.



L-200 Metal (steel)



L-300C Metal (steel)



L-400-C (plastic)

L-200

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	Std. Pkg.	Wt. Ea.
L-200	Cable Tie Tool, 18-50 lbs. tension Steel Handle	.094184"	1	13.44 oz.

L-300-C

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	Std. Pkg.	Wt. Ea.
L-300C	Cable Tie Tool, 120-175 lbs. tension Steel Handle	.301345"	1	12 oz.

L-400-C

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	Std. Pkg.	Wt. Ea.
L-400-C	Cable Tie Tool, 18-50 lbs. tension Plastic Handle	.094184"	1	7.52 oz.



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Ty-Rap®/Ty-Fast®

Cable Tie Installation Tools

Semi-automatic air tool speeds cable tying operation – increases productivity

• Semi-automatic operation-produces fast, effortless tying; cinches and trims tie in one fast motion

- Positive tail ejection-ensures high operating efficiency
- Precision engineered–gives you long-term dependable service, reduces operator fatigue
- Adjustable tension-provides uniform, quality installations over wide bundle diameter range
 - The TR227 pistol-type, semiautomatic air tool provides quick,
 - effortless cable tying. It installs self-locking Ty-Rap[®] cable ties having body widths of .091" to .187" regardless of the tie's length or diameter of the wire bundle.

The trigger activated pneumatic tool:

- 1. tightens the tie to a preset tension,
- 2. trims it flush to the head,
- 3. positively ejects the cut-off portion of the cable tie in a single stroke.

The tool is so easy to operate that just installing a few ties is all the training required. This lightweight, precision tool is designed to be the workhorse in production tying operations. Its long barrel and narrow nose make it ideal for reaching into congested wire areas.

Designed with a comfort-grip handle to avoid operator fatigue, the tool is quality engineered to provide years of dependable service. Your wire harnessing and cable bundling will be accomplished quickly, easily, and at low installed cost.

TR227 TR227R

Consistent tension for all bundle diameters

The tool has a convenient tension adjustment permitting each tie to be installed with the proper tension regardless of variations in the bundle diameter. To increase tension on the tie, turn the tension disc clockwise–to decrease tension, turn the disc counterclockwise.

The tension range is indicated on the disc from min. to max.

Modular head

If difficulty should arise with operation of the tool, a convenient modular head allows quick replacement. Simple on-line repair–downtime reduced to an absolute minimum.

Ty-Rap [®] Pneumatic Tool			
Cat. No.	Description	Body Width (in.)	
TR227	Semiautomatic hand tool	.094184	
TR227R	For TR227	Replaceable head	



Cable Tie Installation Tools

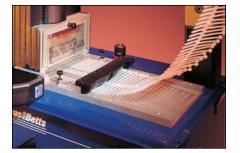


Designed To Make A Fast Bundle–On The Job And On The Bottom Line.

Thomas & Betts analyzed the harness assembly process in detail to develop the new Ty-Fast® Automated Fastening System with features you need and the reliability you demand.

Reliable Performance Tie After Tie.

The Ty-Fast® Automated Fastening



System is precision engineered for enhanced reliability.

- Dispenser, tool head, and cable ties are designed to work smoothly and swiftly together.
- Simplicity of concept virtually eliminates costly jams in the hose and dispenser.

- Compact dispenser takes up less room–allows automation in tight spaces.
- Using compressed air, cable ties are fully installed in less than one second.
- Cable tie reels allow extra room for loading and feeding.
- Top-mounted scrap catcher opens to the side to empty quickly and easily.
- Tension adjustment knob ensures a secure bundle every time.

Ergonomic Design That's Easier To Handle.

The Ty-Fast® system features a number of ergonomic advantages to reduce fatigue and enhance performance.

- Smaller grip on tool head provides comfortable fit.
- Center of gravity balanced for optimum operation at panel-standard 20° angle.

- Swivel handle provides easier movement around the harness application.
- Lightweight tool head reduces operator fatigue.

T&B Cable Ties For Superb Locking Strength.

The Ty-Fast® Automatic Fastening System uses Thomas & Betts all nylon cable ties, specially designed for smooth operation and rugged, longlasting use.

- Quality molded nylon ties prevent damage to wire insulation.
- Integrally formed nylon pawl combines low insertion resistance and high locking strength.

Guaranteed Service

Sure-Service Tool Support For Quick Response Service.

Although you shouldn't expect a problem with the Ty-Fast® system, it's still nice to know that every unit comes with Sure-Service Tool Support, a comprehensive warranty and service contract that keeps you up and running.

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Ty-Rap®/Ty-Fast®

- On-site set up and training makes start-up easy.
- Direct access to professionally trained technicians keeps your system in tip-top shape. 1-800-284-TOOL.
- Our affordable lease option reduces your capital expenditure and ensures a rapid payback on your investment.





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Cable Tie Installation Tools











Cable Ties

A Complete Cable Tie System For Harness Assembly.

The Ty-Fast® system includes everything you need for fast, reliable performance for all types of harness assembly applications. It's the latest innovation from the company that introduced the very first cable tie in 1958 and the original automatic cable tool in 1970. What's more, Thomas & Betts brings you the convenience of a single source for a complete solution to all your cable tie needs, with all the dependability, service and reputation of our name behind it.

For more information about the Ty-Fast® Automated Fastening System, talk to your Thomas & Betts Sales Representative.

Ordering Information				
Cat. No.	Figure	Description		
Complete System				
		Complete cable tie installation system consisting of:		
	А	Tool Head (ERG 502H)		
ERG 502	В	10' Cable Tie Delivery Hose (TC100H)		
	С	Cable Tie Dispenser (ERG 502D)		
		(Each of these parts is also available separately for replacement.)		

Additional	Additional Components		
TC100ASH	Main Air Supply Hose		
	10' hose provides for connection from TC2FR Filter/Regulator to ERG 502D		
	Cable Tie Dispenser		
TC2FR	Filter/Regulator Supplies the ERG 502D dispenser with clean air and allows for regulation of air pressure.		

Cat. No.	Color	Max. Bundle Diameter In. (mm)	Tie Length In. (mm)	Tie Width In. (mm)	Min. Loop Tensile Strength Lbs. (N)	Use With T&B Tool Cat. No.
TY910	Natural					
TY910X	Weatherable Black					
TY910-11	White					
TY910-1	Brown		4.14 .095 (105.2) (2.4)		18 (80)	
TY910-2	Red					
TY910-3	Orange	.0687				ERG 502
TY910-4	Yellow	.0007 (1.5 - 22.1)				
TY910-5	Green	(1.3 - 22.1)		(00)		
TY910-6	Blue					
TY910-7	Purple					
TY910-8	Gray					
TY910-HS	Heat Stabilized Natural					
TY910-XHS	Heat Stabilized Black					

6/6 Nylon for indoor use up to 185°F (85°C)

Heat stabilized nylon for use up to 221°F (105°C)



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Ty-Rap®/Ty-Fast®

X-ON Electronics

Largest Supplier of Electrical and Electronic Components

Click to view similar products for Wire Identification category:

Click to view products by ABB manufacturer:

Other Similar products are found below :

 CU6337-000
 CU6342-000
 FCA-410-12
 11631010
 1-1768037-1
 1-1768037-2
 1-1768050-0
 PXLK-VI
 Q62184-1
 A64304-000
 QMT221

 HK032WE1NF038B
 1330-0519-10
 1395199-1
 1395200-1
 1395202-1
 DMVF050WE-30086
 D-SCE-1K-2.4-50-4-CS7834
 1538738-1

 E90935-000
 EC1238-000
 EC1465-000
 EC1855-000
 EC1859-000
 EC1863-000
 EC5415-000
 EC7352-000
 EC7603-000

 EC7707-000
 EC7735-000
 EC7828-000
 EC7854-000
 EC7952-000
 EC8128-000
 1768037-8
 1768041-7
 NC-127191-10-9

 HS048WE2NF038B
 C03232-000
 HTCM-SCE-14-4H-9
 HTMS-3/16-9
 HT-SCE-1/4-2.0-4
 HT-SCE-3/16-2.0-4
 HTTMS-1/2-1.50-9
 HTTMS

 CM-1/2-4H-9
 HX-SCE-19.0-50-9
 HX-SCE-6.4-50-4
 C25254-000
 EC7275-000
 EC73/16-2.0-4
 HTTMS-1/2-1.50-9
 HTTMS