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

1.252.1354



Ty-Rap[®] High-Performance Nylon Cable Ties





Ty-Rap® 6.6 Nylon **Cable Ties — Natural**

 Suitable for air handling (plenum) applications

(8)	100
	TY523M — Tie body width .091"
	Tall name
	TY524M — Tie body width .140"
	1 7.8 new
	TY525M — Tie body width .187"
	1

Select the best material for your application. See pages C-9-C-11 for a Material Selection Guide.

TY5272M — Tie body width .270"

STD. PKG. CAT. NO.	BULK PKG. Cat. No.	BODY WIDTH IN./MM	LENGTH IN./MM	MAX. WIRE BUNDLE DIA. IN./MM	MILITARY STANDARD PART NO.	TENSILE Strength LBS./N	STD. PKG. QTY.	BULK PKG. QTY.
TY523M	TY23M	.09/2.29	3.62/91.95	.63/16.00	MS3367-4	18/80.07	100	1,000
TY52315M	TYB2315M	.09/2.29	7.00/177.80	1.50/38.10	_	18/80.07	100	1,000
TY5232M	TY232M	.09/2.29	8.00/203.20	2.00/50.80	_	18/80.07	100	1,000
TY5234M	TY234M	.09/2.29	14.00/355.60	4.00/101.60	_	18/80.07	100	1,000
TY524M	TY24M	.14/3.56	5.50/139.70	1.13/28.70	MS3367-5	40/177.90	100	1,000
TY5242M	TY242M	.14/3.56	8.19/208.03	2.00/50.80	_	40/177.90	100	1,000
TY526M	TY26M	.14/3.56	11.10/281.94	3.00/76.20	_	30/133.40	100	1,000
TY5244M	TY244M	.14/3.56	14.50/368.30	4.00/101.60	_	30/133.40	100	1,000
TY525M	TY25M	.19/4.83	7.31/185.67	1.75/44.45	MS3367-1	50/222.40	100	1,000
TY5253M	TY253M	.19/4.83	11.60/294.64	3.00/76.20	MS3367-7	50/222.40	100	1,000
TY528M	TY28M	.19/4.83	14.20/360.68	4.00/101.60	MS3367-2	50/222.40	100	1,000
TY5272M [†]	TY272M†	.27/6.86	8.75/222.250	2.00/50.80	_	120/533.80	50	500
TY527M [†]	TY27M†	.27/6.86	13.40/340.36	3.50/88.90	MS3367-3	120/533.80	50	500
TY5275M	TY275M	.27/6.86	18.00/457.20	5.00/127.00	_	120/533.80	50	500
TY5277M	TY277M	.27/6.86	24.30/617.22	7.00/177.80	_	120/533.80	50	500
TY529M	TY29M	.27/6.86	30.00/762.00	9.00/228.60	MS3367-6	120/533.80	50	500
TY53510M [†]	_	.32/8.13	35.00/889.00	10.00/254.00	_	175/778.40	50	_
TY54513M [†]	_	.32/8.13	45.00/1,143.00	13.00/330.20	_	175/778.40	50	_

Cable ties made from natural nylon 6.6 are excellent performers in most applications.

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

[†] **TL** Recognized Models

- UL® Listed Natural 6.6 Nylon Cable Ties are suitable for use in air handling spaces (plenums) in accordance with Section 300.22 (C) & (D) of the National Electrical Code®.
- UL File No. E49405
- Installation tools available on pp. C-46-C-48.

Air handling (plenum) and UV colors!

Ty-Rap® UV-Resistant 6.6 Nylon Cable Ties — **Color Assortment**

 Suitable for air handling (plenum) applications





STD. PKG. CAT. NO.	BULK PKG. CAT. NO.	DESCRIPTION	LENGTH IN./MM	TENSILE Strength LBS./N	STD. PKG. QTY.	BULK PKG. QTY.
TY525M-35	TY25M-35	Air Handling (plenum) Maroon	7.31/185.67	50/222.40	100	1,000
TY525M-CLRS	_	Multi-Colored, UV-Stabilized Nylon, (10 each of standard 10 colors)*	7.31/185.67	50/222.40	100	_
_	TY25M-X	Black, UV-Stabilized Nylon	7.31/185.67	50/222.40	_	1,000
_	TY25M-1	Brown, UV-Stabilized Nylon	7.31/185.67	50/222.40	_	1,000
TY525M-2	TY25M-2	Red, UV-Stabilized Nylon	7.31/185.67	50/222.40	100	1,000
_	TY25M-3	Orange, UV-Stabilized Nylon	7.31/185.67	50/222.40	_	1,000
_	TY25M-4	Yellow, UV-Stabilized Nylon	7.31/85.67	50/222.40	_	1,000
TY525M-5	TY25M-5	Green, UV-Stabilized Nylon	7.31/185.67	50/222.40	100	1,000
TY525M-6	TY25M-6	Blue, UV-Stabilized Nylon	7.31/185.67	50/222.40	100	1,000
_	TY25M-7	Purple, UV-Stabilized Nylon	7.31/185.67	50/222.40	_	1,000
_	TY25M-8	Gray, UV-Stabilized Nylon	7.31/185.67	50/222.40	_	1,000
_	TY25M-9	White, UV-Stabilized Nylon	7.31/185.67	50/222.40	_	1,000
_	TY25M-22	Beige, UV-Stabilized Nylon	7.31/185.67	50/222.40	_	1,000

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

Suitable for use in air handling spaces in accordance with Section 300.22 (C) & (D) of the National Electrical Code®, except for TY25M-X (black).

* 100 standard ties in black, brown, red, orange, yellow, green, blue, purple, gray and white (10 each)

Recommended tooling --- ERG-50, WT1-TB

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

COLOR	SUFFIX No.	COLOR	SUFFIX No.	COLOR	SUFFIX No.	COLOR	SUFFIX No.	COLOR	SUFFIX NO.
Black	Х	Orange	3	Blue	6	White	9	Fluor. Orange	53
Brown	1	Yellow	4	Purple	7	Beige	22	Fluor. Yellow	54
Red	2	Green	5	Gray	8	Maroon	35	Fluor. Green	55
								Fluor. Pink	59

Note: The base catalog number for Ty-Rap® cable ties is for natural (non-colored) nylon without the UV-stabilizing additive, which is not suitable for outdoor use. For colored UV-stabilized nylon Ty-Rap® cable ties, add the following suffix numbers to the base catalog numbers. For example, TY25M is natural (non-colored) nylon for indoor use only, while TY25M-2 is red UV-stabilized nylon for indoor or outdoor use. Consult customer service for ordering information.

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1-800-453-1692

Ty-Rap[®] High-Performance Nylon Cable Ties

Ty-Rap® 6.6 Nylon Cable Ties — Weather-Resistant Black

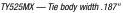














TY5272MX — Tie body width .270"

STD. PKG. CAT. NO.	BULK PKG. Cat. No.	BODY WIDTH In./MM	LENGTH IN./MM	MAX. WIRE BUNDLE DIA. IN./MM	MILITARY STANDARD PART NO.	TENSILE Strength LBS./N	STD. PKG. QTY.	BULK PKG. QTY.
TY523MX	TY23MX	.09/2.29	3.62/91.95	.63/16.00	MS3367-4	18/80.07	100	1,000
TY52315MX	TYB2315MX	.09/2.29	7.00/177.80	1.50/38.10	_	18/80.07	100	1,000
TY5232MX	TY232MX	.09/2.29	8.00/203.20	2.00/50.80	_	18/80.07	100	1,000
TY5234MX	TY234MX	.09/2.29	14.00/355.60	4.00/101.60	_	18/80.07	100	1,000
TY524MX	TY24MX	.14/3.56	5.50/139.70	1.13/28.70	MS3367-5	40/177.90	100	1,000
TY5242MX	TY242MX	.14/3.56	8.19/208.03	2.00/50.80	_	40/177.90	100	1,000
TY526MX	TY26MX	.14/3.56	11.10/281.94	3.00/76.20	_	30/133.40	100	1,000
TY5244MX	TY244MX	.14/3.56	14.50/368.30	4.00/101.60	_	30/133.40	100	1,000
TY525MX	TY25MX	.19/4.83	7.31/185.67	1.75/44.45	MS3367-1	50/222.40	100	1,000
TY5253MX	TY253MX	.19/4.83	11.60/294.64	3.00/76.20	MS3367-7	50/222.40	100	1,000
TY528MX	TY28MX	.19/4.83	14.20/360.68	4.00/101.60	MS3367-2	50/222.40	100	1,000
TY5272MX†	TY272MX†	.27/6.86	8.75/222.250	2.00/50.80	_	120/533.80	50	500
TY527MX†	TY27MX [†]	.27/6.86	13.40/340.36	3.50/88.90	MS3367-3	120/533.80	50	500
TY5275MX	TY275MX	.27/6.86	18.00/457.20	5.00/127.00	_	120/533.80	50	500
TY5277MX	TY277MX	.27/6.86	24.30/617.22	7.00/177.80	_	120/533.80	50	500
TY529MX*	TY29MX*	.27/6.86	30.00/762.00	9.00/228.60	MS3367-6	120/533.80	50	500
TY53510MX [†]	_	.32/8.13	35.00/889.00	10.00/254.00	_	175/778.40	50	_
TY54513MX [†]	_	.32/8.13	45.00/1,143.00	13.00/330.20	_	175/778.40	50	_

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

Increase efficiency! **Ty-Rap Tote** Cable Tie Dispensers

Attach to your belt _ or almost any other convenient location via a built-in belt clip and chrome steel loop.

Includes 100 genuine Ty-Rap® cable ties.



Quickly refill your Ty-Rap Tote® through the hook-and-loopsecured flap.

Easily remove the tie you need through the reinforced, diamondshaped cut-out while the Ty-Rap Tote® securely holds the rest.

Keep cable ties clean and organized inside the durable, lightweight polyester exterior and tough vinyl interior.







STD PKG.		
CAT. NO.	DESCRIPTION	STD. PKG. QTY.
TY-TOTE-25	Ty-Rap Tote® 8" Cable Tie Dispenser (includes 1 pkg. TY525M)	1
TY-TOTE-23	Ty-Rap Tote® 4" Cable Tie Dispenser (includes 1 pkg. TY523M)	1
TY-TOTE-28	Ty-Rap Tote® 11"-14" Cable Tie Dispenser (includes 1 pkg. TY528M)	1

Order only genuine Ty-Rap® Cable Ties to refill your dispenser!



United States

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^{*} For military compliance of weather-resistant black 120-lb. ties, replace suffix X with O (i.e., TY27M-0).

[†] Not Listed or Recognized Models.

[•] UL® File No. E49405

[•] Installation tools available on pp. C-46-C-48.

Safety and decontamination.

Ty-Rap® Detectable Ties

Ty-Rap® Detectable Cable Ties are made from standard nylon or polypropylene, and incorporate a unique compound detectable by metal detectors and x-ray equipment. Their bright blue color makes them easy to spot. The polypropylene version is buoyant, making it ideal for use in liquid-processing areas.

With Ty-Rap® Detectable Cable Ties, you have all of the advantages of the original Ty-Rap® Cable Tie, including a smooth body with an infinitely adjustable design, high-performance stainless steel locking device for a perfect fit and superior holding power — plus the peace of mind of knowing the integrity of your product is uncompromised.

Ty-Rap® Detectable Cable Ties are a contamination solution for food and beverage processing plants and may aid companies in meeting the US Food and Drug Administration (FDA) Hazard Analysis of Critical Control Points (HACCP) safety standards and the European Union (EU) hygiene monitoring regulations.



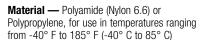
See p. C-46-C-48 for cable tie installation tools.

Features

- Detectable by metal detectors set at minimum 1.5mm ferrous sphere
- Detectable by x-ray equipment
- Bright blue color allows easy visual detection, especially on white conveyor systems
- Buoyant Polypropylene version available for use in liquid-processing applications

Typical Applications

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



Color — Blue (for easy visual detection)



STD. PKG. CAT. NO.	TIE LENGTH IN./MM	BODY WIDTH IN./MM	MAX. WIRE Bundle in./MM	TENSILE STRENGTH LBS./N	BASE Material	STD. PKG. QTY.
Nylon 6.6						
TY523M-NDT	3.62/91.90	.09/2.36	.63/15.90	18/80	Nylon	100
TY524M-NDT	5.50/139.70	.14/3.56	1.13/28.70	40/178	Nylon	100
TY525M-NDT	7.31/186.00	.19/4.70	1.75/44.40	50/220	Nylon	100
TY527M-NDT	13.40/340.00	.27/6.86	3.50/89.00	120/540	Nylon	50
TY528M-NDT	14.20/361.00	.19/4.70	4.00/102.00	50/220	Nylon	100
Polypropyle	ne					
TY523M-PDT	3.62/91.90	.09/2.36	.63/15.90	18/80	Polypropylene	100
TY525M-PDT	7.31/186.00	.19/4.70	1.75/44.40	30/135	Polypropylene	100
TY527M-PDT	13.40/340.00	.27/6.86	3.50/89.00	60/267	Polypropylene	50
TY528M-PDT	14.20/361.00	.19/4.75	4.00/102.00	30/135	Polypropylene	100



United States

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Tel: 888.862.3289





Engineered-Performance Material Cable Ties

Extra high temperatures!

Ty-Rap® Extra High-Temperature 4.6 Nylon Ties





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

Color — Natural (Olive)

- Non-hydroscopic stainless steel barb will not weaken or wear out after years of environmental stress
- Smooth, notchless body reduces stress, increasing life expectancy over standard notched, one-piece cable ties
- Quicker to install and less expensive than metallic fasteners, lacing cord or tape
- Ideal for Industrial applications including metal processing, paper mills, lighting and commercial construction markets with high temperature environments up to 302° F (150° C)
- Provides a smooth, low-profile look and unlimited tensioning range for a perfect fit
- Features an oval head on every original Ty-Rap® Cable Tie



BULK PKG. CAT. NO.	LENGTH IN./MM	TENSILE STRENGTH LBS./N	BULK PKG. QTY.
TYHT23M	3.62/91.95	18/80.07	1,000
TYHT25M	7.31/185.67	50/222.40	1,000
TYHT27M	13.40/340.36	120/533.80	500
TYHT28M	14.20/360.68	50/222.40	1,000

Engineered to withstand high temperatures!

Ty-Rap® Heat-Stabilized Natural 6.6 Nylon Ties





For use in temperatures ranging from -40° F to 221° F (-40° C to 105° C). Material meets ASTM D4066 PA121.

Color - Green Tint

BULK PKG. Cat. No.	WIDTH IN./MM	BODY LENGTH IN./MM	MAX. WIRE BUNDLE DIA. IN./MM	TENSILE STRENGTH LBS./N	BULK PKG. QTY.
TYH23M	.09/2.29	3.62/91.95	.63/16.00	18/80.07	1,000
TYH232M	.09/2.29	8.00/203.20	2.00/50.80	18/80.07	1,000
TYH24M	.14/3.56	5.50/139.70	1.13/28.70	40/177.90	1,000
TYH242M	.14/3.56	8.19/208.03	2.00/50.80	40/177.90	1,000
TYH26M	.14/3.56	11.10/281.94	3.00/76.20	30/135	1,000
TYH25M	.18/4.57	7.31/185.67	1.75/44.45	50/222.40	1,000
TYH253M	.18/4.57	11.40/289.56	3.00/76.20	50/222.40	1,000
TYH28M	.18/4.57	14.20/360.68	4.00/101.60	50/222.40	1,000
TYH27M	.27/6.86	13.20/335.28	3.50/88.90	120/533.80	500
TYH272M	.27/6.86	8.75/222.25	2.00/50.80	120/533.80	500
TYH29M	.30/7.62	30.00/762.00	9.00/228.60	120/533.80	500

Perfect for outdoor applications!

Ty-Rap[®] Heat-Stabilized/ UV-Resistant Black 6.6 Nylon Ties



For use in temperatures ranging from -40° F to 221° F -40° C to 105° C

Color — Black





- Non-hydroscopic stainless steel barb will not weaken or wear out after years of environmental stress
- Smooth, notchless body reduces stress, increasing life expectancy over standard notched, one-piece cable ties
- Ideal for Industrial applications including lawn/garden/farming equipment, recreation vehicles and heavy equipment
- Can be placed in environments requiring heat stabilization and UV resistance
- Provides a smooth, low-profile look and unlimited tensioning range for a perfect fit
- Features an oval head on every original Ty-Rap® Cable Tie
- Quicker to install and less expensive than metallic fasteners, lacing cord or tape



BULK PKG. CAT. NO.	LENGTH IN./MM	TENSILE STRENGTH LBS./N	BULK PKG. QTY.
TY23MX-A	3.62/91.95	18/80.07	1,000
TY24MX-A	5.50/139.70	40/177.90	1,000
TY25MX-A	7.31/185.67	50/222.40	1,000
TY28MX-A	14.20/360.68	50/222.40	1,000
TY27MX-A	13.40/340.36	120/533.80	500



United States

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Resists acids, salts and bases.

Ty-Rap® Weather-Resistant Polypropylene Ties

- Excellent resistance to chemical exposure
- Greater UV resistance
- Buoyant will float to the surface of most liquids

Color — Black

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







BULK PKG. CAT. NO.	WIDTH IN./MM	BODY Length In./MM	MAX. WIRE BUNDLE DIA. IN./MM	TENSILE STR. LBS./N	BULK PKG. QTY.
TYP23MX	.09/2.29	3.62/91.95	.63/16.00	18/80.07	1,000
TYP25MX	.18/4.57	7.31/185.67	1.75/44.45	30/133.40	1,000
TYP28MX	.18/4.57	14.20/360.68	4.00/101.60	30/133.40	1,000
TYP27MX	.27/6.86	13.20/335.28	3.50/88.90	60266.90	500

Long life in UV and chemical environments.

Ty-Rap® Weather-Resistant Nylon 12 Ties

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.

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

Color — Black









STD. Cat. No.	BULK Cat. No.	BODY WIDTH IN./MM	LENGTH IN./MM	MAX. WIRE BUNDLE DIA. IN./MM	TENSILE Strength LBS./N	STD. PKG. QTY.	BULK PKG. QTY.
TYC525MX	TYC25MX	.18/4.57	7.31/185.67	1.75/44.45	35/155.70	100	1,000
_	TYC28MX	.18/4.57	14.20/360.68	4.00/101.60	35/155.70	_	1,000
_	TYC272MX	.27/6.86	8.00/203.20	2.00/50.80	85/378.10	_	500
TYC527MX	TYC27MX	.27/6.86	13.20/335.28	3.50/88.90	85/378.10	50	500
_	TYC29MX	.30/7.62	30.00/762.00	9.00/228.60	85/378.10	_	500





Engineered-Performance Material Cable Ties

Perfect for passenger areas!

Ty-Rap® Flame-Retardant 6.6 Nylon Ties

- · Meets the UL94V-0 flammability rating
- Low smoke

Color — White

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









BULK CAT. NO.	BODY Width In./MM	LENGTH IN./MM	MAX WIRE BUNDLE DIA. IN./MM	MARKING PAD SIZE IN./MM W X H	TENSILE STRENGTH LBS./N	BULK PKG. QTY.
TY23MFR	.09/2.29	3.62/91.95	.63/16.00	N/A	18/80.07	1,000
TY232MFR	.09/2.29	8.00/203.20	2.00/50.80	N/A	18/80.07	1,000
TY24MFR	.14/3.56	5.50/139.70	1.13/28.70	N/A	40/177.90	1,000
TY25MFR	.18/4.57	7.31/185.67	1.75/44.45	N/A	50/222.40	1,000
TY28MFR	.18/4.57	14.20/360.68	4.00/101.60	N/A	50/222.40	1,000
TY272MFR [†]	.27/6.86	8.00/203.20	2.00/50.80	N/A	120/533.80	500
TY27MFR	.27/6.86	13.20/335.28	3.50/88.90	N/A	120/533.80	500
TY53MFR	.09/2.29	4.00/101.60	.63/16.00	.81 x .36/20.57 x 9.1	18/80.07	500
TY153MFR	.10/2.54	4.35/110.49	.63/16.00	.78 x 1/19.81 x 14.00	18/80.07	500
† Not UL® Reco	ognized Model.					

Al

Withstand even the toughest environments!

Ty-Rap® Radiation-Resistant Fluoropolymer Ties

- High radiation resistance 2 x 108 Rads
- · Extremely chemical resistant
- Meets flammability rating UL94V-0
- Long application life expectancy

Color — Aqua

For use in temperatures ranging from -76° F to 338° F (-60° C to 170° C)









STD. CAT. NO.	BULK Cat. No.	BODY WIDTH IN./MM	LENGTH IN./MM	MAX. WIRE BUNDLE DIA. IN./MM	TENSILE Strength LBS./N	STD. PKG. QTY.	BULK PKG. QTY.
TYZ523M*	TYZ23M*	.09/2.29	3.62/91.95	.63/16.00	18/80.07	100	1,000
TYZ525M	TYZ25M	.18/4.57	7.31/185.67	1.75/44.45	50/222.40	100	1,000
TYZ528M	TYZ28M	.18/4.57	14.19/360.43	4.00/101.60	50/222.40	100	1,000
TYZ527M	TYZ27M	.27/6.86	13.38/339.85	3.50/88.90	120/533.80	50	100
*UL Listed							

Perfect for low smoke-generation applications.

Ty-Rap® Low-Smoke Fluoropolymer Ties

- Made of tough fluoropolymer material
- Use in air-handling spaces
- UL94V-0 flammability rating
- Low-smoke density

Color — Maroon

For use in temperatures ranging from -50° F to 284° F (-45° C to 140° C)







STD. CAT. NO.	BULK CAT. NO.	BODY WIDTH IN./MM	LENGTH IN./MM	MAX. WIRE BUNDLE DIA. IN./MM	TENSILE Strength LBS./N	STD. PKG. QTY.	BULK PKG. QTY.
TYV523M	TYV23M	.09/2.29	3.62/91.95	.63/16.00	18/80.07	100	1,000
TYV525M	TYV25M	.18/4.57	7.31/185.67	1.75/44.45	50/222.40	100	1,000



United States

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Tel: 888.862.3289







Select the cable ties you need for special environments!

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: 1. Radiation-resistant fluoropolymer, 2. Low-smoke fluoropolymer, 3. Nylon 12, 4. 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 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.

Table 1 — Available Materials 5 = Most Suitable 1 = Least Suitable

													/
	NATURAL 6.6 Nylon*	WEATHER- RESISTANT 6.6 NYLON		HEAT- Stabilized UV 6.6 Nylon				WEATHER- RESISTANT POLY- PROPYLENE	LOW- SMOKE FLUORO- POLYMER		DELTEC° Weatherable Acetel	DETECTABLE NYLON*	STAINLESS STEEL
Ultraviolet Resistance	1	4	1	4	1	1	4	4	5	5	4	1	5
Radiation Resistance	1	1	1	1	1	1	1	1	4	4	1	1	5
Low Temperature	3	3	3	4	3	2	4	3	4	4	4	2	5
High Temperature	3	3	4	3	4	3	2	2	4	4	2	2	5
Flammablity	3	3	3	3	3	4	1	1	4	4	1	3	5
Tensile Strength	3	3	3	3	3	3	2	1	3	3	2	3	5
Relative Cost	Low	Low	Low	Low	Med	Med	Med	Low	High	High	High	Med	High
Chemical Resistance						SEE TABL	E 3 (PAGE	S C-10-C-11)				

^{*} Funaus inert

Flammability ratings for selecting Ty-Rap® cable ties

Flammability ratings of Ty-Rap® cable tie materials are shown in Table 2 on the following page. 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 ½", 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 UL94V-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 UL94V-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

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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 UL94V-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.





Table 2 — Physical Properties of Ty-Rap® Cable Tie Materials

	NATURAL 6.6 Nylon	WEATHER- RESISTANT 6.6 NYLON	HEAT- Stabilized Natural 6.6 Nylon	HEAT- Stabilized UV 6.6 Nylon	EXTRA HIGH TEMP 4.6 NYLON	FLAME- Retardant 6.6 Nylon	WEATHER- RESISTANT NYLON 12	WEATHER- RESISTANT POLY- PROPYLENE	LOW-SMOKE FLUORO- POLYMER	RADIATION- RESISTANT FLUORO- POLYMER	DELTEC® Weatherable Acetal	STAINLESS STEEL
Tensile Strength (Yield) @ 73° F (Dry-As-Molded) ¹ [psi]	12,000	12,000	12,000	11,500	14,500	11,000	7,500	4,600	6,600	6,700	10,000	90,000
Flammability Rating	UL94V-2	UL94V-2	UL94V-2	UL94V-2	UL94V-2	UL94V-0	_	_	UL94V-0	UL94V-0	UL94HB	_
Radiation Resistance [rads]	1 x 10 ⁵	1 x 10 ⁵	1 x 10 ⁵	1 x 10 ⁵	1 x 10 ⁵	1 x 10 ⁵	1 x 10 ⁵	1 x 10 ⁵	2 x 10 ⁶	2 x 10 ⁸	1 x 10 ⁶	2 x 10 ⁸
Ultraviolet Light Resistance	Poor	Good	Poor	Good	Poor	Poor	Good	Good	Excellent	Excellent	Very Good	Excellent
Water Absorption (24 hrs.) [%]	1.3	1.2	1.4	.25	2.3	1.4	.25	.1	<.1	<.01	.25	None
Oxygen Index	28	28	31	26	27	34	_	_	52	30	21	_
Max. Continuous Use Temperature [F°/C°]	185/85	185/85	221/105	221/105	302/150	185/85	176/80	194/90	284/140	302/150	194/90	1000/537
Min. Continuous Use Temperature [F°/C°]	-40/-40	-40/-40	-40/-40	-40/-40	-40/-40	-40/-40	-40/-40	-65/-65	-50/-46	-50/-46	-85/-65	-112/-80
Color	Natural	Black	Green Tint	Black	Light Green	White	Black	Black	Maroon	Aqua	Black	Stainless

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

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

REAGENTS	CONCENTRATION	STANDARD 6.6 NYLON AS USED IN TY SERIES	WEATHER- RESISTANT 6.6 NYLON AS USED IN TY X SERIES	HEAT- STABILIZED 6.6 NYLON AS USED IN TYH SERIES	FLAME- RETARDANT 6.6 NYLON AS USED IN TY FR SERIES	WEATHER- RESISTANT NYLON 12 AS USED IN TYC X SERIES	WEATHER- RESISTANT POLY- PROPYLENE AS USED IN TYP X SERIES	LOW-SMOKE FLUOROPOLYMER AS USED IN TYV SERIES	RADIATION- RESISTANT FLUOROPOLYMER AS USED IN TYZ SERIES	DELTEC® WEATHERABLE ACETAL AS USED IN TYD SERIES	STAINLESS STEEL AS USED IN TYS SERIES
Arsenic Acid	40%				_		Е	_			Е
Acetaldehyde	50%	S	S	S	S	_	_	_	_	_	_
Acetone	100%	Ē	Ē	F	Ē	Е	Е	Е	F	F	Е
Aluminum Hydroxide	AQ	_	_	_	_	_	Ē	Ē	Ē	<u>.</u>	Ē
Ammonia	All	_	_	_	_	Е	F	F	F	_	_
Ammonium Carbonate	5%	S	S	S	S	E	F	F	F	_	Е
Ammonium Hydroxide	10%	Ē	Ē	Ē	Ē	_	F	F	F	F	F
Ammonium Nitrate	_	_	_	_	_	Е	E	E	E		E
Ammonium Sulfate	10%	_	_	_	_	S	S	Ē	S	_	S
Barium Carbonate	All	_	_	_	_	F	F	Ě	F	_	Ĕ
Barium Chloride	5%	NR	NR	NR	NR	F	F	_	F	_	Ē
Barium Sulfate	10%	E	E	E	E	Ē	E		F	_	F
Barium Sulfide	10%	Š	S	S	Š	Ē	Ē		Ē	_	Ē
Benzene	100%	Ĕ	Ĕ	Ĕ	Ĕ	Ē	Š	Е	F	F	F
Benzoic Acid	100%	NR	NR	NR	NR	Ē	F	Ē	Ē	<u>.</u>	Ē
Butyric Acid	50%	NR	NR	NR	NR	_	Ē	F	F	_	Ē
Calcium Carbonate	AQ					_	Ē	Ē	F	_	Ē
Calcium Hydroxide	20%	_	_	_	_	_	Ē	Ē	F	Е	Ē
Calcium Hydrochlorite	2	NR	NR	NR	NR	_	F		F	_	Ē
Calcium Sulfate	2%	_	_	_	_	_	Ė	Е	F	_	Ė
Carbon Tetrachloride	100%	Е	Е	Е	Е	Е	Ē	Ē	Ē	Е	Ē
Chlorine (WET)	_	NR	NR	NR	NR	_	F	_	F	_	Ē
Chlorine (DRY)	_	NR	NR	NR	NR	_	NR	_	F	_	F
Chloroacetic Acid	30%	NR	NR	NR	NR	_	_	_	F	_	F
Chloroform	100%		_	_		F	F	Е	F	_	Ė
Chromic Acid	50%	NR	NR	NR	NR		F	Š	F	_	F
Citric Acid	50%	S	S	S	S	Е	Ė	Ĕ	F	F	F
Copper Cyanide	10%	_	_	_	_	_	F	F	F	_	Ē
Copper Nitrate	50%	_	_	_	_	_	Ē	Ē	Ē	_	Ē
Cider	—	_	_	_	_	_	Ē	Ē	F	_	F
Dichloroethane	100%	_	_	_	_	_		Ē	Ē	_	Ē
Diethyl Ether	100%	_	_	_	_	Е	Е	Ē	F	S	F
Ethyl Alcohol	100%	S	S	S	S	Ē	Ē	Ē	F	_	Ē
Ethyl Chloride	100%	_	_	_	_	F	F	S	F	Е	Ē
Ethylene Glycol	100%	Е	Е	Е	Е	<u> </u>	F	Ĕ	Ē	Š	Ē
Ferric Hydroxide	All	_	_	_	_	_	È	È	F	_	F
Ferric Nitrate	10%	_	_	_	_	_	Ē	Ē	F	_	Ē
Ferrous Sulfate	10%	_	_	_	_	_	Ē	Ē	F	_	F
Fuel Oil	100%	_	_	_	_	Е	_	F	F	_	Ē
Furfural	100%	_	_	_		_	F	F	F	_	F
Gallic Acid	AQ	_	_	_	_	_		F	Ë	_	Ē
Gasoline	100%	E	E	E	E		S	Ē	E		F
Glycerine	100%	_	_	_	_	Е	E	F	_	_	Ē
Hydrocyanic Acid	All	_	_	_		_	F	Ē	E	_	Ē
Hydrogen Peroxide	30%	NR	NR	NR	NR	S	Ē	F	Ē	F	Ē
		NR	NR	NR	NR	F	Ē	F	F	<u>'</u>	F
Hydrogen Sulfide	Dry	NK	NK	NK	NK	Ł	Ł	Ł	E	_	E

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Table 3 (continued)

		STANDARD 6.6 NYLON AS USED IN	WEATHER- RESISTANT 6.6 NYLON AS USED IN	HEAT- Stabilized 6.6 Nylon as USED	FLAME- RETARDANT 6.6 NYLON AS USED IN	WEATHER- RESISTANT NYLON 12 AS USED IN	WEATHER- RESISTANT POLY- PROPYLENE AS USED IN	LOW-SMOKE FLUOROPOLYMER AS USED IN	AS USED IN	DELTEC® WEATHERABLE ACETAL AS USED	STAINLESS STEEL AS USED IN
REAGENTS	CONCENTRATION	TY SERIES	TY X SERIES	IN TYH SERIES	TY FR SERIES	TYC X SERIES	TYP X SERIES	TYV SERIES	TYZ SERIES	IN TYD SERIES	TYS SERIES
odoform	100%	_	_	_	_	_	_	E	E	_	E
sopropyl Alcohol	100%	S	S	S	S	E	E	E	E	_	E
let Fuel	100%	E	E	E	E	_	S	E	Ē	_	E
actic Acid	10%	E	E	E	E	S	E	E	E		E
anolin	10%	Е	Е	E	E	Е	Е	E	E	_	E
_ead Acetate	5%	_	_	_	_	_	E	E	E	_	E
inseed Oil	10%	E	E	E	Е	Е	E	E	Е	Е	E
Magnesium Carbonate	All	_	_	_	_	E	E	E	E	_	Е
Magnesium Chloride	10%	F	F	F	F	F	F	_	F	_	F
Magnesium Nitrate	All	_	_	_	_	E	E	E	E	_	E
Malic Acid	AQ	_	_	_	_	_	E	E	E	_	Е
Mercury	100%	_	_	_	_	E	E	E	E	_	E
Methyl Alcohol	100%	S	S	S	S	E	Е	Е	E	_	Е
Methyl Chloride	100%	_	_	_	_	_	S	S	Е	_	Е
Methyl Ethyl Ketone	100%	_	_	_	_	Е	F	F	F	F	Е
Vaptha	100%	_	_	_	_	_	Ē	Ē	Ē		E
Vitric Acid	30%	NR	NR	NR	NR		F	Ē	Ē	NR	Ē
Vitric Acid	30–70%	NR	NR	NR	NR		F	S	S	NR	Ē
Nitrous Acid	5%	- IND	INIT		INIT		F	F	E		Ē
Dieic Acid	100%	_	_	_			Ė	E	E	S	Ē
						S	F	E	E		E
Oxalic Acid	10%	E	E	E	E	E	F	E	E		Ē
Paraffin	100%				_	E	E E	E	E		E
Petroleum Ether	100%	MD.					F F	E	E	NR	E
Phenol	90%	NR	NR	NR	NR		_				
Phosphoric Acid	10%	NR	NR	NR	NR	_	E	E	E	_	E E
Picric Acid	1%	_			_	_	E	E	E	_	
Potassium Bromide	AQ	_	_	_	_		S		S		S
Potassium Carbonate 1%	_	_	_	E	Е	E	E		Ē	_	-
Potassium Chlorate	AQ	_			_	S	E	E	E	_	E
Potassium Dichromate	40%	NR	NR	NR	NR	F	E	E	E	_	E
Potassium Ferrocyanide	25%	_	_	_	_	_	E	E	Ē	_	E
Potassium Hydroxide	5%	S	S	S	S	_	E	E	E	_	E
Potassium lodide	All	_	_	_	_	Е	Е	E	E	_	E
Potassium Nitrate	50%	F	F	F	F	Е	Е	E	E	_	E
Potassium Permanganate	5%	NR	NR	NR	NR	NR	E	Е	E	S	Е
Potassium Sulfate	5%	_	_	_	_	Е	E	E	E	_	Е
Potassium Sulfide	AQ	_	_	_	_	_	E	E	E	_	Е
Propyl Alcohol	100%	Е	Е	Е	E	_	Е	E	E	_	Е
Silver Nitrate	10%		_	_	_	Е	Ē	Е	Е	_	Е
Sodium Acetate	60%	Е	Е	Е	Е	_	Е	Е	E	_	Е
Sodium Bicarbonate	All	Ē	Ē	Ē	Ē	Е	Ē	Ē	Ē	_	Ē
Sodium Bisulfate	10%	_	_	_	_	Ē	Ē	Ē	Ē	Е	Ē
Sodium Borate	All		_			_	F	Ē	Ē		Ē
Sodium Carbonate	5%	E	E	E	E	E	Ē	E	Ē	S	Ē
Sodium Chlorate	25%	_			_	S	Ē	E	Ē	Ë	Ē
	2%	E	E	E	E	E	E	E	Ē	S	E
Sodium Chloride	2% 5%	_					F		F	_	F
Sodium Fluoride			E	E	E	E	E	E	E	S	E
Sodium Hydroxide	10%	E	t	t	С		Е	E	F	ა —	F
Sodium Hyposulfite	AQ	_	_		_	E	E E	E	E	_	E
Sodium Nitrate	5%	Е	E	E	E						E
Sodium Nitrite	AQ	_	_	_	_	S	E	E	E	_	
Sodium Perchlorate	10%	_			_	_	_	E	E		E
Sodium Phosphate	5%	_	_	_	_	E	E	E	E F	_	E
Sodium Sulfate	5%	S	E	S	E	E	E	E	E	_	E
Sodium Thiosulfate	5%	_	_	_	_	S	S	_	S	S	S
Stearic Acid	100%	_	_	_	_	F	E	E	E	_	E
Sulfur	100%	_	_	_	_	E	E	E	E	_	E
Sulfur Dioxide	All	NR	NR	NR	NR	E	E	E	E	_	E
Sulfuric Acid	Conc.	NR	NR	NR	NR	_	S	E	E	NR	E
Sulfuric Acid	5%	NR	NR	NR	NR	F	F	F	F	F	F
Tannic Acid	10%	_	_	_	_	_	E	E	E	_	Е
Tartaric Acid	50%	_	_	_	_	Е	Е	E	E	E	E
Tetrahydrofuran	100%	_	_	_	_	S	F	F	E	E	Е
Toluene	100%	Е	Е	Е	Е	Ē	F	E	E	F	F
Xylene	100%	Ē	Ē	Ē	Ē	Ē	F		Ē	<u> </u>	Ë
Zinc Chloride	70%	F	F	F	F	E	F	Е	Ē	NR	Ē
Zinc Onlonde Zinc Nitrate	AQ		<u> </u>			E	E	Ē	Ē	_	Ē
Zinc Nitrate Zinc Sulfate	AQ		_			E	Ē	Ē	E	_	E
LIIIU JUIIAIU		=Fair NR =N	ot Recommended	(AQ =Aqueous	. –	L	L	L	L		L

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Color Coding Cable Ties

Ty-Rap[®] Striped-Colored Cable Ties for Identification Telephone Cable Binder

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



STD. PKG. CAT. NO.	BULK. PKG. CAT. NO.	TIE COLOR	COLOR Stripe	BODY Width In./mm	LENGTH IN./MM	TENSILE Strength LBS./N	STD. PKG. QTY.	BULK PKG. QTY.
696-40527-0C	696-40527-0	Black	_	.09/2.29	3.62/91.95	18/80.07	50	1,000
696-40527-1-0C	696-40527-1-0	Brown	Black	.09/2.29	3.62/91.95	18/80.07	50	1,000
696-40527-1-2C	696-40527-1-2	Brown	Red	.09/2.29	3.62/91.95	18/80.07	50	1,000
696-40527-1-4C	696-40527-1-4	Brown	Yellow	.09/2.29	3.62/91.95	18/80.07	50	1,000
696-40527-1-7C	696-40527-1-7	Brown	Violet	.09/2.29	3.62/91.95	18/80.07	50	1,000
696-40527-1-9C	696-40527-1-9	Brown	White	.09/2.29	3.62/91.95	18/80.07	50	1,000
696-40527-2C	696-40527-2	Red	_	.09/2.29	3.62/91.95	18/80.07	50	1,000
696-40527-3-0C	696-40527-3-0	Orange	Black	.09/2.29	3.62/91.95	18/80.07	50	1,000
696-40527-3-2C	696-40527-3-2	Orange	Red	.09/2.29	3.62/91.95	18/80.07	50	1,000
696-40527-3-4C	696-40527-3-4	Orange	Yellow	.09/2.29	3.62/91.95	18/80.07	50	1,000
696-40527-3-7C	696-40527-3-7	Orange	Violet	.09/2.29	3.62/91.95	18/80.07	50	1,000
696-40527-3-9C	696-40527-3-9	Orange	White	.09/2.29	3.62/91.95	18/80.07	50	1,000
696-40527-4C	696-40527-4	Yellow	_	.09/2.29	3.62/91.95	18/80.07	50	1,000
696-40527-5-0C	696-40527-5-0	Green	Black	.09/2.29	3.62/91.95	18/80.07	50	1,000
696-40527-5-2C	696-40527-5-2	Green	Red	.09/2.29	3.62/91.95	18/80.07	50	1,000
696-40527-5-4C	696-40527-5-4	Green	Yellow	.09/2.29	3.62/91.95	18/80.07	50	1,000
696-40527-5-7C	696-40527-5-7	Green	Violet	.09/2.29	3.62/91.95	18/80.07	50	1,000
696-40527-5-9C	696-40527-5-9	Green	White	.09/2.29	3.62/91.95	18/80.07	50	1,000
696-40527-6-0C	696-40527-6-0	Blue	Black	.09/2.29	3.62/91.95	18/80.07	50	1,000
696-40527-6-2C	696-40527-6-2	Blue	Red	.09/2.29	3.62/91.95	18/80.07	50	1,000
696-40527-6-4C	696-40527-6-4	Blue	Yellow	.09/2.29	3.62/91.95	18/80.07	50	1,000
696-40527-6-7C	696-40527-6-7	Blue	Violet	.09/2.29	3.62/91.95	18/80.07	50	1,000
696-40527-6-9C	696-40527-6-9	Blue	White	.09/2.29	3.62/91.95	18/80.07	50	1,000
696-40527-8-0C	696-40527-8-0	Slate	Black	.09/2.29	3.62/91.95	18/80.07	50	1,000
696-40527-8-2C	696-40527-8-2	Slate	Red	.09/2.29	3.62/91.95	18/80.07	50	1,000
696-40527-8-4C	696-40527-8-4	Slate	Yellow	.09/2.29	3.62/91.95	18/80.07	50	1,000
696-40527-8-9C	696-40527-8-9	Slate	White	.09/2.29	3.62/91.95	18/80.07	50	1,000

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

Ty-Rap® Striped-Colored Cable Tie Kits



STD. PKG. CAT. NO.	DESCRIPTION	STD. PKG.
650-40587	Pouch only	1
650-40587-1	Pouch with Ty-Rap® cable tie assortment 1 bag each of 50 each (1,250 total)	1
650-40587C	Cloth pouch only	1
650-40587CF	Cloth pouch with 1 bag of 50 each Ty-Rap® cable ties (1,250 total)	1
650-40587M	Mini pouch only	1
650-40587MF	Mini pouch filled with assortment of Ty-Rap® cable ties (50 each)	1

Thomas@Betts

United States
Tel: 901.252.8000
800.816.7809

Fax: 901.252.1354

Technical Services
Tel: 888.862.3289





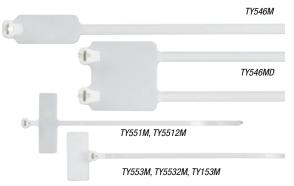


Identification Tags, Cable Ties and Accessories

Keep your cables clearly identified!

Ty-Rap® 6.6 Nylon Identification Ties

Self-locking Ty-Rap® identification ties are available in both single and multiple configurations. They can be marked with the special Thomas & Betts marking pen (see **page C-14**) that immediately 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.



AI	

STD	BULK	BODY WIDTH	TOTAL LENGTH	MAX. WIRE Bundle	MILITARY Standard	MARKING PAD SIZE IN./MM.	TENSILE Strength	STD.	BULK
CAT. NO.	CAT. NO.	IN./MM	IN./MM	IN./MM	PART NO.	WXH	LBS./N	PKG. QTY.	PKG. QTY.
TY551M	TY51M	.09/2.29	3.60/91.44	.63/16.00	MS3368-5	1 x .313	18/80.07	100	500
TY5512M	TY512M*	.09/2.29	8.30/210.82	2.00/50.80	_	1 x .313	18/80.07	100	1,000
TY553M	TY53M	.09/2.29	4.00/101.6	.63/16.00	_	.813 x .359	18/80.07	100	500
TY5532M	TY532M	.09/2.29	8.40/213.36	2.00/50.80	_	.813 x .359	18/80.07	100	1,000
_	TY153M	.10/2.54	4.35/110.49	.63/16.00	_	.781 x 1	18/80.07	_	500
TY546M	TY46M	.18/4.57	7.10/180.34	1.75/44.45	MS3368-1	.5 x .875	50/222.40	100	1,000
TY548M	TY48M*	.19/4.83	14.20/360.68	4.00/101.6	MS3368-2	.5 x 2.125	50/222.40	100	1,000
TY546MD	TY46MD*	.19/4.83	7.25/184.15	1.75/44.45	MS3368-3	1.172 x 1	50/222.40	50	500
TY546MT	TY46MT*	.19/4.83	7.25/184.15	1.75/44.45	MS3368-4	1.210 x 1	50/222.40	100	500
TY546MF	TY46MF	.19/4.83	7.25/184.15	1.75/44.45	_	2.48 x 1	50/222.40	50	250

*Nylon 6.6 UV weather-resistant version available (add suffix X).

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

• Natural nylon color

Custom Heat Stamping

Thomas & Betts 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
- Special logos and different type styles can be accommodated when camera-ready artwork is provided



- Minimum order quantity is 3,000 pieces per part number and message
- Lead time is 8–10 weeks





www.aboveboardelectronics.com

1-800-453-1692

Identification Tags, Cable Ties and Accessories

Stay organized!

Identification Tags

Ranging in length from 1.25" to 2.5", the identification plates are secured to the cable with Ty-Rap® ties. They are composed of .010"- and .015"-thick nylon 6.6, and have a surface that can be marked easily. Thomas & Betts offers custom heat stamping of your plates at the factory.







BULK CAT. NO.	WIDTH IN./MM	LENGTH IN./MM	THICKNESS In./MM	MAX. CABLE Bundle dia. In./MM	# TIE SLOTS	BULK PKG. QTY.
TC123-TB	.75/19.05	1.25/31.75	.01/.25	.19/4.83	3	1,000
TC124-TB	.75/19.05	1.50/38.10	.01/.25	.19/4.83	3	1,000
TC125-TB	.75/19.05	1.75/44.45	.01/.25	.19/4.83	3	1,000
TC126-TB	.75/19.05	2.00/50.80	.01/.25	.19/4.83	3	1,000
TC128-TB	.75/19.05	2.50/63.50	.01/.25	.19/4.83	3	1,000
TC223-TB	.75/19.05	1.28/32.51	.02/.51	.19/4.83	2	1,000
TC224-TB	.75/19.05	1.50/38.10	.02/.51	.19/4.83	2	1,000
TC225-TB	.75/19.05	1.75/44.45	.02/.51	.19/4.83	2	1,000
TC226-TB	.75/19.05	2.00/50.80	.02/.51	.19/4.83	2	1,000
TC228-TB	.75/19.05	2.50/63.50	.02/.51	.19/4.83	2	1,000

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

Mark and bundle simultaneously!

Snap-On Identification Marker Tag



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

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

- Enables marking and bundling to be done in one operation
- The marking can be made with a Thomas & Betts permanent marking pen, Cat. No. WT163M-1
- 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
- · Made of natural nylon 6.6

STD. CAT. NO.	BULK Cat. No.	DESCRIPTION	MARKING PAD SIZE W X H (IN./MM)	PKG. QTY.	PKG. QTY.
TC523	TC23	Snaps onto the heads of all miniature 18 lbs. (80.07 N) series cable ties	1 x .35/25.40 x 889.00	100	1,000
TC524	TC24	Snaps onto the heads of all intermediate 30 (133.40N) & 40 (177.90N) lbs. series cable ties	1 x .50/25.40 x 500.00	100	1,000
TC525	TC25	Snaps onto the heads of all standard 50 lbs. series cable ties	1 x .50/25.40 x 500.00	100	1,000

· Natural nylon color

Ty-Rap® Marking Pen

- Permanent ink for long life on nylon cable ties and tags
- Fine-point tip for easy cable tie and tag marking



CAT. NO.	COLOR INK	STD. PKG. QTY.
WT163M-1	Black	1



Tel: 901.252.8000 800.816.7809 Fax: 901.252.1354

Tel: 888.862.3289







[·] Natural nylon color

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

Ty-Rap® 6.6 Nylon Mounting Head Ties — Natural







STD. Cat. No.	BULK CAT. NO.	BODY WIDTH IN./MM	LENGTH IN./MM	MAX. WIRE BUNDLE DIA. IN./MM	MOUNTING Hole	TENSILE Strength LBS./N	STD. PKG. QTY.	BULK PKG. QTY.
TY533M	TY33M	.09/2.29	4.00/101.60	.63/16.00	#4	18/80.07	100	1,000
TY534M	TY34M	.14/3.56	6.00/152.40	1.13/28.70	#8	40/177.90	100	1,000
TY535M	TY35M	.18/4.57	7.80/198.12	1.75/44.45	#10	50/222.40	100	1,000
TY5354M	TY354M	.18/4.57	14.60/370.84	4.00/101.60	#10	50/222.40	100	1,000
_	TY635M	.19/4.83	7.80/198.12	1.77/44.96	#6	50/222.40	_	1,000
TYF535M	TYF35M	.19/4.83	7.24/183.90	1.77/44.96	#6	50/222.40	100	1,000
TY537M	TY37M	.30/7.62	13.90/353.06	3.50/88.90	1/4"	120/533.80	50	500

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

Ty-Rap® 6.6 Nylon Mounting Head Ties — **Weather Resistant**

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.



STD. CAT. NO.	BULK Cat. No.	BODY WIDTH In./MM	LENGTH IN./MM	MAX. WIRE BUNDLE DIA. IN./MM	MOUNTING Hole	TENSILE Strength LBS./N	STD. PKG. QTY.	BULK PKG. QTY.
TY533MX	TY33MX	.09/2.29	4.00/101.60	.63/16.00	#4	18/80.07	100	1,000
TY534MX	TY34MX	.14/3.56	6.00/152.40	1.13/28.70	#8	40/177.90	100	1,000
TY535MX	TY35MX	.18/4.57	7.80/198.12	1.75/44.45	#10	50/222.40	100	1,000
TY5354MX	TY354MX	.18/4.57	14.60/370.84	4.00/101.60	#10	50/222.40	100	1,000
TY537MX	TY37MX	.30/7.62	13.90/353.06	3.50/88.90	1/4"	120/533.80	50	500

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

Ty-Rap® 6.6 Nylon Push-Mount Ties

For use in 3/16" and 1/4" pre-drilled holes. Panel thickness .09" max. (TY554M) Range .04-.156" (TY538M)



الله الله الله الله الله الله الله الله	TY554M

STD. CAT. NO.	BULK Cat. No.	BODY WIDTH IN./MM	LENGTH IN./MM	MAX. WIRE Bundle Dia. In./MM	MOUNTING HOLE	TENSILE STRENGTH LBS./N	STD. PKG. QTY.	BULK PKG. QTY.
TY554M	TY33MX	.14/3.56	5.96/151.38	1.13/28.70	3/16"	40/177.90	100	1,000
TY538M	TY38M *	.18/4.57	7.80/198.12	1.75/44.45	1/4"	50/222.40	100	1,000

*Nylon 6.6 UV weather-resistant version available (TY38MX).

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

· Natural nylon color







[·] Natural nylon color

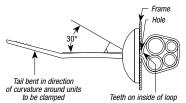
[·] Black color

Convenient one-piece design!

Ty-Rap® Tie for Panel and Chassis Mounting



- One-piece design, fast and convenient to use
- Clamping range of 1/16 to 23/8 inches reduces your inventory — one clamp replaces many
- · Visually attractive head resembles rivet
- Locking grooves maintain tight grip
- Lowers your installed cost



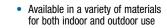
STD. CAT. NO.	BULK Cat. No.	BODY WIDTH IN./MM	LENGTH IN./MM	MAX. WIRE BUNDLE DIA. IN./MM	HOLE SIZE IN./MM	STRENGTH LBS./N	STD. PKG. QTY.	BULK PKG. QTY.
TY541M	TY41M	.23/5.84	9.60/243.84	2.37/60.20	.3268/8.13-17.27	65/289.10	50	1,000
650-41600	_	.23/5.84	10.25/260.35	2.50/63.50	.3268/8.13-17.27	65/289.10	500	1,000
696-41848	_	.23/5.84	12.50/317.50	3.00/76.20	.3268/8.13-17.27	65/289.10	500	1,000

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.

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

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

Two-Way Adhesive Mounting Bases



· One-piece molding — no lost parts

Adhesive-backed with pressuresensitive adhesive tape (where applicable)





STD. PKG. CAT. NO.	BULK PKG. CAT. NO.	MOUNTING METHOD	MAX. TIE WIDTH ACCOM.	LENGTH IN./MM	WIDTH IN./MM	MATERIAL	STD. PKG. QTY.	BULK PKG.
TC5342A	TC342A	SRA* Adhesive	.19	1.13/28.58	1.13/28.58	Nylon 6.6	100	1,000
_	TC342A-X	SRA* Adhesive	.19	1.13/28.58	1.13/28.58	UV Black	_	1,000
_	TC342	TC2PA [†]	.19	1.13/28.58	1.13/28.58	Nylon 6.6	_	1,000
_	TC342X	TC2PA [†]	.19	1.13/28.58	1.13/28.58	UV Black	_	1,000
_	TC342A-FR	SRA* Adhesive	.19	1.13/28.58	1.13/28.58	Flame-Retardant Nylon	_	1,000
_	TC342AH-TFR	Acrylic Adhesive	.19	1.13/28.58	1.13/28.58	Black High-Temp Flame-Retardant Nylon	_	1,000

Temperature Rating: 32° F to 120° F (0° C to 48° C)

*Synthetic Rubber Adhesive

†TC2PA Adhesive sold separately

Note: See product expiration date on package. Periodically check product for adhesion and replace as needed. Product is for wire management only and is not intended for use as a primary support of wire, cable, etc.

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Select the four-way configuration you need! **Four-Way Adhesive Mounting Base**

- Eliminates errors in premounting the base with respect to its orientation to wire bundle direction
- For synthetic rubber adhesive (SRA), allow 15-minute setting time for maximum adhesion performance
- For acrylic adhesive, allow 24- to 72-hour setting time for maximum adhesion performance (acrylicadhesive mounting bases may be re-positioned initially before the adhesive has set)





Four-Way Mini Base





Large Four-Way Base







- Storage/Service Temperature: 32° F to 120° F (0° C to 48° C)
- Application Temperature: 65° F to 100° F (18° C to 37° C)
- Surface Preparation: Surface should be cleaned with alcohol-based (IPA) cleaner before application *Synthetic Rubber Adhesive

Note: See product expiration date on packages with adhesive. Periodically check product for adhesion and replace as needed. Product is for wire management only and is not intended for use as a primary support of wire, cable, etc.

Two-and Four-Way Adhesive Mounting Base



- 4-way base for cable ties up to .184" maximum width and a two-way base for ties up to .301' maximum width
- May also be mounted with #8 size screw (2 holes)

STD. PKG. CAT. NO.	BULK PKG. Cat. No.	MOUNTING Method	MAX. TIE WIDTH ACCOM.	LENGTH IN./MM	WIDTH IN./MM	MATERIAL	STD. PKG. QTY.	BULK PKG. QTY.
TC5347A	TC347A	SRA* Adhesive	.30	1.13/28.58	1.13/28.58	Nylon 6.6	100	1,000
TC5347AX	_	SRA* Adhesive	.30	1.13/28.58	1.13/28.58	UV Black	100	_
_	TC347	TC2PA/Screws	.30	1.13/28.58	1.13/28.58	Nylon 6.6	_	1,000
_	TC347FR	TC2PA/Screws	.30	1.13/28.58	1.13/28.58	Flame-Retardant	_	1,000
_	TC347X	TC2PA/Screws	.30	1.13/28.58	1.13/28.58	UV Black	_	1,000

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

Note: See product expiration date on packages with adhesive. Periodically check product for adhesion and replace as needed. Product is for wire management only and is not intended for use as a primary support of wire, cable, etc.







Mounting Bases, Cable Ties and Accessories

Great for securing cables!

One-Piece Mounting Clamp



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

				CLAMP	ING AREA		
STD. PKG. CAT. NO.	BULK PKG. CAT. NO.	BASE STYLE	MAXIMUM HEIGHT (IN.)	MINIMUM IN./MM	MAXIMUM IN./MM	STD. PKG. QTY.	BULK PKG. QTY.
TC5349A-TB	TC349A-TB	SRA* Adhesive	.57	.18 x .24/4.57 x 6.10	.035 x .24/.89 x 6.10	100	1,000
TC5350A-TB	TC350A-TB	SRA* Adhesive	.89	.20 x .59/5.08 x 14.99	.45 x .59/11.43 x 14.99	100	1,000
TC5350-TB	_	Screw Mount (#8)	.89	.20 x .59/5.08 x 14.99	.45 x .59/11.43 x 14.99	100	1,000

· Natural nylon color.

*Synthetic Rubber Adhesive

Product Base is .94" x .94" (23.88 x 23.88 mm)

For adhesive-back bases, temperature rating is 32° F to 120° F (0° C to 48° C)

For non-adhesive-back bases, temperature rating is -40° F to 185° F (-40° C to 85° C)

(===========

Hole for #6 screw

Note: See product expiration date on packages with adhesive. Periodically check product for adhesion and replace as needed. Product is for wire management only and is not intended for use as a primary support of wire, cable, etc.

Simple to install!

Snap-In Mounting Base for Preassembled Ties



STD. PKG.	BULK PKG.	MOUNTING	MAX. TIE	LENGTH	WIDTH	MATERIAL	STD.	BULK
CAT. NO.	Cat. No.	METHOD	WIDTH ACCOM.	IN./MM	IN./MM		PKG. QTY.	PKG. QTY.
TC5353A	TC353A	SRA* Adhesive	.190	2.00/50.80	1.00/25.40	Nylon 6/6	25	500

• Natural nylon color.

Temperature Rating: 32° F to 120° F (0° C to 48° C).

*Synthetic Rubber Adhesive.

Note: See product expiration date on package. Periodically check product for adhesion and replace as needed.

Product is for wire management only and is not intended for use as a primary support of wire, cable, etc.

Great for securing cables! Aluminum Mounting Plates



STD. PKG. CAT. NO.	MOUNTING METHOD	WIDTH ACCOM.	MAX. TIE LENGTH ACCOM.	WIDTH IN./MM	MATERIAL	BULK PKG. QTY.
TC105	TC2PA/Screws	.190	1.00/25.40	.50/12.70	Aluminum	1,000
TC824-TB	TC2PA	.190	1.38/34.93	.38/.38	Aluminum	1,000
650-41349*	TC2PA/Screws	.190	1.38/34.93	.38/.38	Aluminum	1,000
650-41863	Adhesive	.190	1.38/34.93	.38/.38	Aluminum	1,000
Temperature Rating: 32° F to 150° F (0° C to 66° C).			. *650-41349	has two holes	s for mounting	

Note: See product expiration date on package. Periodically check product for adhesion and replace as needed. Product is for wire management only and is not intended for use as a primary support of wire, cable, etc.

Super strong adhesive! Mounting Base Adhesive





STD. PKG		STD.
CAT. NO.	DESCRIPTION	PKG. QTY
TC2PA	Consists of one tube of adhesive and activator	1

Note: See product expiration date on package. Periodically check product for adhesion and replace as needed. Product is for wire management only and is not intended for use as a primary support of wire, cable, etc.



United States

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Tel: 888.862.3289







Saddle Support Base

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.





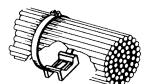


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100

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500



STD. PKG. CAT. NO.	BULK PKG. Cat. No.	MOUNTING METHOD	MAXIMUM TIE WIDTH ACCOM.	WIDTH IN./MM	LENGTH IN./MM	STD. PKG. QTY.	BULK PKG. QTY.
_	TC140	#4 Pan Head	.091	.344/8.74	.563/14.30	_	500
TC5141	TC141*†	#6 Pan Head	.190	.439/11.15	.672/17.07	100	500
TC5142	TC142 [†]	#10 Pan Head	.301	.563/14.30	.922/23.42	100	500

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

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

Multiple-Bundle Mounting Strips

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



STD. PKG. CAT. NO.	MAXIMUM MOUNTING METHOD	TIE WIDTH ACCOM.	WIDTH IN./MM	LENGTH IN./MM	CAPACITY (BUNDLES)	MIL. STD. Part no.	BULK PKG. QTY.
TC1101	#6 Screws	.190	.50/12.70	1.75/44.45	1	MS3339-1	100
TC1102	#6 Screws	.190	.50/12.70	3.00/76.20	2	MS3339-2	100
TC1103	#6 Screws	.190	.50/12.70	4.25/107.95	3	MS3339-3	100
TC1104	#6 Screws	.190	.50/12.70	5.50/139.70	4	MS3339-4	100
TC1105	#6 Screws	.190	.50/12.70	6.75/171.45	5	MS3339-5	100
TC1112	#6 Screws	.301	.63/15.88	9.60/243.84	6	MS3339-11	100
TC1113	#6 Screws	.301	.63/15.88	2.10/53.34	1	MS3339-6	100
TC1114	#6 Screws	.301	.63/15.88	3.60/91.44	2	MS3339-7	100
TC1115	#6 Screws	.301	.63/15.88	5.10/129.54	3	MS3339-8	100
TC1116	#6 Screws	.301	.63/15.88	6.60/167.64	4	MS3339-9	100

8.10/205.74

· Natural nylon color.

TC1117

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

.301

#6 Screws

TC101

TC103

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

Single-Bundle Mounting E



Base							M
STD. PKG. CAT. NO.	BULK PKG. Cat. No.	MOUNTING METHOD	MAXIMUM TIE WIDTH ACCOM. IN./MM	WIDTH IN./MM	LENGTH IN./MM	STD. PKG. QTY.	BULK PKG. QTY.

.63/15.88

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.

#10 Screws

1/4" Screws

· Natural nylon color

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



United States

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Technical Services

190/4.83

.301/7.65

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.500/12.7

.625/15.88

2.00/50.80



Thomas@Betts

MS3339-10

Natural nylon color.

Permits vertical stacking!

Ty-Rap® Mounting Blocks



BULK PKG. CAT. NO.	MOUNTING HOLE SIZE	TIE WIDTH ACCOM.	MAXIMUM WIDTH IN./MM	LENGTH IN./MM	BULK PKG. QTY.
TC115-TB	#10	.190/4.83	.47/11.91	1.00/25.40	1,000

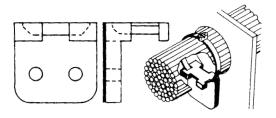
Mounting blocks permit vertical stacking and can be used in any direction.

· Natural nylon color.

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

Meets military specs as a support in bulkheads and walls!

Right-Angle Bundle Support



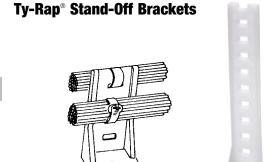
BULK PKG. CAT. NO.	TIE WIDTH ACCOM.	MAXIMUM WIDTH IN./MM	LENGTH IN./MM	BULK PKG. QTY.
TC109	.19/4.83	.56/14.30	.44/11.13	200
TC106	.30/7.62	1.00/25.40	1.00/25.40	1,000

This style meets Military Specification requirements as a support at holes in bulkheads and walls. (MS3341)

Natural nylon color.

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

Mount bundles on either side!



STD. PKG. CAT. NO.	MAXIMUM TIE WIDTH ACCOM.	WIDTH IN./MM	LENGTH IN./MM	STD. PKG. QTY.
TC375	.19/4.83	.75/19.05	3.65/92.71	100
TC375X (WEATHERABLE)	.19/4.83	.75/19.05	3.65/92.71	100
TC376	.19/4.83	.67/17.01	1.75/44.45	100

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

Natural nylon color.

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

Ideal for high-density packaging!

Low-Profile Two-Way Miniature Mounting Bases

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





All

*E*II°

STD. PKG. CAT. NO.	BULK PKG. Cat. No.	MOUNTING METHOD	MAXIMUM TIE WIDTH ACCOM.	WIDTH IN./MM	LENGTH IN./MM	STD. PKG. QTY.	BULK PKG. QTY.
TC502	TC102	#8 screw	.19	.50/12.70	.75/19.05	100	1,000
_	TC104	#5 screw	.09	.32/8.03	.41/10.31	_	1,000
_	TC804-TB	#2 screw	.09	.32/8.03	.40/10.31	_	1,000
_	TC112-TB	#8 screw	.19	.38/9.53	.75/19.05	_	1,000
_	TC812-TB	#10 screw	.19	.38/9.53	.75/19.05	_	1,000
_	TC814-TB	#5 screw	.19	.38/9.53	.75/19.05	_	1,000

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

Natural nylon color.

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



Tel: 901.252.8000 800.816.7809 Fax: 901.252.1354



Tel: 888.862.3289





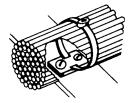


Mounting Bases, Cable Ties and Accessories

Installs in-line with the wire bundle!

In-Line Mounting Base





BULK CAT. NO.	MOUNTING METHOD	WIDTH ACCOM. IN./MM	MAX. TIE WIDTH IN./MM	LENGTH IN./MM	BULK PKG. QTY.
TC815-TB	#10 screws	.30/7.62	.75/19.05	1.13/28.58	500

A standard 2-hole base that installs in-line with the wire bundle that conceals it.

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

Miniature Base





BULK PKG. CAT. NO.	MOUNTING METHOD	MAX. TIE WIDTH ACCOM.	LENGTH IN./MM	WIDTH IN./MM	MATERIAL	BULK PKG. QTY.
TC817-TB	TC2PA	.19	.44/11.10	.44/11.10	Nylon 6/6	1,000

· Natural nylon color.

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

Handles ties installed in either direction!

Low-Profile Four-Way Mounting Base





							74
STD. PKG. CAT. NO.	BULK PKG. Cat. No.	MOUNTING METHOD	MAXIMUM TIE WIDTH ACCOM.	WIDTH IN./MM	LENGTH IN.	STD. PKG.	BULK PKG.
_	TC826-TB*	#8 screw	.19	.50/12.70	1/25.40		1,000
TC5828	TC828-TB*	#8 screw	.19	.39/9.91	.88/22.23	100	1,000

The TC826-TB mounting base can be used to tie bundles running parallel or perpendicular to length of base.

The TC828-TB mounting plate also handles ties installed in either direction and is somewhat smaller than TC826.

*Natural nylon color is standard. Replace TB with O suffix for black color. For use in temperatures ranging from -40° F to 185° F (-40° C to 85° C).

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

Self-Riveting Base





BULK PKG. Cat. No.	MOUNTING HOLE PKG. SIZE	MAX. TIE WIDTH ACCOM.	WIDTH IN./MM	LENGTH IN./MM	MATERIAL	BULK PKG. QTY.
TC116-TB	.146	.190	.5/12.7	.75/19.05	Nylon 6.6 (Red)	1,000
TC116-0	.146	.190	.5/12.7	.75/19.05	Nylon 6.6 (Black)	1,000
TC118-TB	.169	.190	.5/12.7	.75/19.05	Nylon 6.6 (Blue)	1,000
TC120	.196	.190	.5/12.7	.75/19.05	Nylon 6.6 (Yellow)	1,000
Clin tio unde	r hood to attac	ah hundla				

Slip tie under base to attach bundle.

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

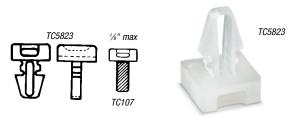




Natural nvlon color.

Mounting Bases, Cable Ties and Accessories

Push-In and Bolted Bases



STD. PKG CAT NO.		MOUNTING HOLE SIZE	MAXIMUM TIE WIDTH ACCOM.	WIDTH IN./MM	LENGTH In./MM	STD. PKG. QTY	BULK PKG. QTY
TC5823	TC823-TB	1/4	.190	.44/11.13	.63/15.88	100	1,000
_	TC107 [†]	#10-32 thd	.190	.44/11.13	.69/15.88	_	1,000

[†] Not UL Recognized.

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

MAX. TIE

WIDTH

ACCOM.

.190

.190

.190

Snap-In Mounting Base Cap

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

— TC121 Snap-Cap.



	BULK PKG.
200	CAT. NO.
55 41	TC121-TB
	TCH121 [†]
kness	
	TCH121-0 [†]

† Not UL Recognized.

MOUNTING

HOLE PKG.

SIZE

.250

250

.250

Natural nylon color.

Nylon 6.6 for use in temperatures ranging from -40° F to 185° F (-40° C to 85° C). Heat stabilized for use in temperatures ranging from -40° F to 221° F (-40° C to 105° C).

WIDTH

IN./MM

.445/11.30 .415/10.54

.445/11.30 .415/10.54

.445/11.30 .415/10.54

LENGTH

IN./MM

MATERIAL

Nylon 6.6

Nylon 6.6

Heat Stabilized

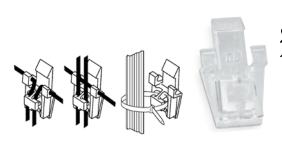
Nylon 6.6 Black

Heat Stabilized

Weather resistant and transparent!

TC121-TB

Aluminum Siding Clip



STD. PKG. Cat. No.	WIRE ACCOMMODATION	STD. PKG. QTY.
TC201	1/4" Diameter Wire (2-pair station wire)	50
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.



C-22





'UR

BULK

PKG.QTY.

1,000

1,000

1,000

[·] Natural nylon color.

Designed for indoor or outdoor use and heavy-duty applications.

Framing Channel Clamp

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

When fastening wire bundles, cables or hoses to framing channels, you can cut costs considerably by using the Ty-Rap® cable clamp. It's made of smooth, weather-resistant nylon and designed to protect cable insulation and hoses from wear or damage, which can occur with metal clamps. The clamp may be used for both indoor or outdoor applications. It quickly installs in the framing channel with a simple push and twist. It requires no screws, nuts or tools. The clamp fits all 11/2" and 11/8" channels regardless of channel depth.









STD. PKG.	CHANNEL SIZE	MAXIMUM TIE WIDTH ACCOM.	STD.
CAT. NO.	(IN.)		PKG. QTY.
TC5363X	1½ & 1%	.301/7.65	50

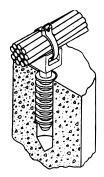
· Made from high-impact weather-resistant black nylon For use in temperatures ranging from -40° F to 185° F (-40° C to 85° C).

Specially designed head is range-taking.

Ty-Rap® Mounting Base for Masonry and Brick Surfaces

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





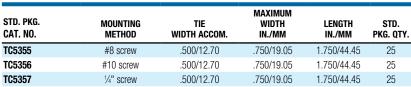
STD. PKG. CAT. NO.	HOLE SIZE IN MASONARY	MAXIMUM TIE WIDTH ACCOM.	STD. PKG. QTY.
TC5358	1/4	.190/4.83	100
TC5359	3/8	.500/12.70	50

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

Weather resistant!

Ty-Rap® Mounting Base for Lashing Tie





· For use with lashing ties up to .500" width (i.e. TY5409)

· Black nylon construction

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

High impact







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

Stud Mounting System

- Great for harnessing wires, cables and hoses to truck and trailer chassis
- Fast, easy installation, using standard 3/8" power drill and application tool or simply hammer on
- Unlimited harnessing flexibility using conventional T&B cable ties
- Custom drill bit quickly installs base to proper torque won't crack or break mounting base due to being overtightened
- Unique 4-way multi-directional design
- 10-position harness capability
- Available for ¾", ½", ¾", and ¾" stud/bolt sizes
- Self-tapping thread design for reliable installation onto stud
- High pull-out strength of 500+ lbs.

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



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



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



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

BULK PKG. Cat. No.	DESCRIPTION	STUD SIZE	MATERIAL	COLOR	BULK PKG.
XMNY-375-0-D	Mount Fastener	3/8	Nylon, UV Stabilized	Black	500
XMNY-500-0-D	Mount Fastener	1/2	Nylon, UV Stabilized	Black	500
XMNY-625-0-D	Mount Fastener	5/8	Nylon, UV Stabilized	Black	500
XMNY-750-0-D	Mount Fastener	3/4	Nylon, UV Stabilized	Black	500
WTXM	Application Tool	_	Tool Steel	_	1

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



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Tel: 888.862.3289







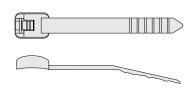
Safety, Reusable and Double-Loop Cable Ties

Ideal for precision bundling!

Low-Profile All-Nylon 6.6 Ties

This fastener design from Thomas & Betts is ideal for use where clearance is a necessity and allows for easy pull-through in bulkheads and other tight spaces. Our contoured head eliminates snagging, and sharp edges are reduced by our safeguard walls.

- Low-profile, contoured head reduces clearance required for the bundle and enhances the appearance of your harness
- The safeguard wall eliminates exposure to sharp edges



- The saddleback fits snug against the contour of the wiring harness
- Sizes and colors available to accommodate varying requirements



Low-profile contoured head compared with the profile of a common cable tie.

STD. PKG. CAT. NO.	BULK PKG. CAT. NO.	MATERIAL	BUNDLE RANGE DIA. IN./MM	TENSILE STRENGTH LBS./N	TIE LENGTH IN./MM	STRAP WIDTH IN./MM	STRAP THICK In./MM	STD. PKG. QTY.	BULK. PKG. QTY.
_	SF100-18	Natural	.13/3.3-1.00/25.4	18/80.07	4.65/118.11	.095/2.41	.04/1.09		1,000
SF100-18X-100	SF100-18X	UV Black	.13/3.3-1.00/25.4	18/80.07	4.65/118.11	.095/2.41	.04/1.09	100	1,000
_	SF200-18	Natural	.13/3.3-2.00/50.8	18/80.07	8.10/205.74	.1/2.41	.04/1.09	_	1,000
_	SF200-18X	UV Black	.13/3.3-2.00/50.8	18/80.07	8.10/205.74	.1/2.41	.04/1.09	_	1,000
_	SF175-50	Natural	.19/4.8-1.75/44.45	50/222.4	7.70/195.58	.19/4.75	.05/1.22	_	1,000
_	SF175-50X	UV Black	.19/4.8-1.75/44.45	50/222.4	7.70/195.58	.19/4.75	.05/1.22	_	1,000
_	SF175-50FR	Flame Retardant	.19/4.8-1.75/44.45	50/222.4	7.70/195.58	.19/4.75	.05/1.22	_	1,000
_	SF300-50X	UV Black	.19/4.8-3.00/76.2	50/222.4	11.33/287.78	.19/4.75	.05/1.22	_	1,000
_	SF400-50	Natural	.19/4.8-4.00/101.6	50/222.4	14.53/369.06	.19/4.75	.05/1.22	_	1,000
_	SF400-120X	UV Black	.38/9.6-4.00/101.6	120/533.8	14.58/370.33	.30/7.62	.07/1.78	_	500

Use these ties again and again!

Ty-Rap® Reusable Ties



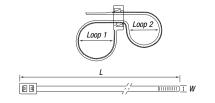
STD. PKG. CAT. NO.	BODY WIDTH IN./MM	LENGTH IN./MM	BUNDLE DIA. IN./MM	TENSILE STRENGTH LBS./N	STD PKG. QTY.
TYR505	.18/4.57	7.50/190.50	1.75/1.75	50/222.40	100
TYR508	.18/4.57	14.30/363.22	4.00/101.60	50/222.40	100

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

Double Loop 6.6 Nylon Tie

Advantages:

- Enables parallel routing of two cable bundles with one single cable tie!
- Halogen- and silicone-free to meet your application needs
- Quick and easy pull-through increases productivity, reduces operator fatigue







BULK PKG. LENGTH WID		WIDTH	BUNDLE DIA	METER RANGE	TENSILE	INSTALLATION TOOLING	BULK
CAT. NO.	IN./MM	IN./MM	LOOP 1 IN./MM	L00P 2 IN./MM	STRENGTH (LB/N)	FOR ALL SIZES	PKG.
TB-12-50RLDH	11.8/299.72	.19/4.83	.1/2.54-2.8/71.12	.1/2.54-2.7/68.58	50/222.4	ERG50	1,000

Natural nylon color

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



United States

Tel: 901.252.8000 800.816.7809 Fax: 901.252.1354 Technical Services
Tel: 888.862.3289







Natural nylon color



Messenger and Lashing Ties and Straps

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

Weather-Resistant Nylon 12 Messenger Hanger and Hanger Straps (Releasable)

Nylon 12 is a lower moisture-absorbing material than 6.6 nylon — making the effect of water on properties much less.











STD. PKG. CAT. NO.	BODY Width In./MM	LENGTH IN./MM	MAX. WIRE BUNDLE DIA. IN./MM	HOOK MATERIAL	TENSILE Strength LBS./N	STD. PKG. QTY.
Weather-Res	sistant l	lylon 12 Me	ssenger Han	ger Straps (Rele	easable)	
TYM5412X	.5/12.7	12/304.8	3/76.2	Bronze	200/889.6	50
TYM5418X	.5/12.7	18/457.2	5/127	Bronze	200/889.6	25
TYM5423X	.5/12.7	24/609.6	7/177.8	Bronze	200/889.6	25
TYM5430X	.5/12.7	30/762.0	9/228.6	Bronze	200/889.6	25
TYM5412X-S	.5/12.7	12/304.8	3/76.2	304 Stainless Steel	200/889.6	50
TYM5418X-S	.5/12.7	18/457.2	5/127	304 Stainless Steel	200/889.6	25
TYM5423X-S	.5/12.7	24/609.6	7/177.8	304 Stainless Steel	200/889.6	25
TYM5430X-S	.5/12.7	30/762.0	9/228.6	304 Stainless Steel	200/889.6	25
TYM5436X-S	.5/12.7	36/914.4	11/279	304 Stainless Steel	200/889.6	25
Weather-Res	sistant l	Nylon 12 Ha	nger Strap (l	Releasable)		
TY54407X	.5/12.7	6.36/151.54	2/50.8	Steel	200/889.6	50
TY54413X	.5/12.7	13.75/349.25	4/101.6	Steel	200/889.6	25

The recommended maximum continuous static loading for the nylon 12 straps is 25 lbs. per strap. For best results, suggested spacing is 15". It's the responsibility of the user to determine whether or not their application meets our recommendation. Hook will accommodate ½" dia. messenger wire.

• Color – Black For use in temperatures ranging from -40° F to 176° F (-40° C to 80° C).

Heavy-Duty Lashing Tie (Releasable)







Length: 19'

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

STD. PKG. CAT. NO.	BULK PKG. CAT. NO.	BODY WIDTH IN./MM	LENGTH IN./MM	MAX. WIRE BUNDLE DIA. IN./MM	TENSILE STRENGTH LBS./N	STD. PKG. QTY.	BULK PKG. QTY.
TY5409	TYANG	5/12 7	19/482 6	4 75/120 65	200/889 6	25	100





1-800-453-1692 www.aboveboardelectronics.com





Messenger and Lashing Ties and Straps

An absolute in chemical environments — and it floats!

Weather-Resistant Polypropylene Lashing Ties with Releasable Heads

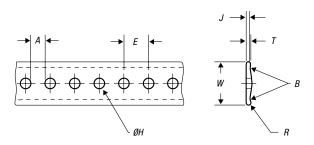


- Excellent chemical resistance
- Buoyant will float on most surfaces
- Made of black weather-resistant polypropylene for outdoor use
- Locking heads made of UV-resistant nylon
- For use in temperatures ranging from -40° F to 176° F (-40° C to 80° C)



STD. PKG. CAT. NO.	BODY WIDTH IN./MM	LENGTH IN./MM	MAX. WIRE BUNDLE DIA. IN./MM	TENSILE Strength LBS./N	STD. PKG. QTY.						
Weather-R	Weather-Resistant Polypropylene Lashing Tie (Releasable)										
TY5418PX	.5/12.7	18/457.2	5/127.0	150/667.2	25						
TY5424PX	.5/12.7	24/609.6	7/177.8	150/667.2	25						
TY5442PX	.5/12.7	42/1066.8	12/304.8	150/667.2	10						
TY5460PX	.5/12.7	60/1524	18/457.2	150/667.2	10						
Weather-Resistant Polypropylene Hanger Lashing Tie (Releasable)											
TY53418PX		.5/12.7	18/457.2	5	25						

Weather-Resistant Polypropylene Strapping and Accessories



STRAPPING					DIME	NSIONS (IN.)				STRAP-TITE	MOUNTING	MACHINE
CAT. NO.	MATERIAL	A	В	E	Н	J	R	T	W	BUCKLE	TAB	SCREW
S2NY-096-0-C	Black Nylon	.091 ± .010	.189	.187	.096 ± .003	$.023 \pm .003$.016	.031 ± .003	.284 ± .012	_	_	#2
S4NY-167-0-C	Black Nylon	$.145 \pm .020$.189	.312	$.167 \pm .005$	$.033 \pm .003$.022	.045± .003	$.375 \pm .010$	_	_	#8
S6NY-203-0-C	Black Nylon	$.187 \pm .020$.189	.390	$.203 \pm .005$	$.045 \pm .005$.030	$.060 \pm .005$	$.490 \pm .015$	B6NY-203-0-D	M6NY-265-0-D	#10





1-800-453-1692



800.816.7809 Fax: 901.252.1354

Deltec® Cable Tie and Support System

Designed to perform a minimum of 20 years outdoors down to -65° C.

The Deltec® Cable Tie and Support System

Lost-time accidents and downtime are often the result of using traditional metal bundling and support systems for high strength and harsh environment applications. Metal support systems can be both difficult and dangerous to install. They can also nick or cut through cable insulation. Insulation failures lead to dangerous and costly situations. There are few options outside of traditional metal for bundling and supporting cable that will withstand the harshest of environments and offer extended outdoor life.

In response to the demand for a better solution, Thomas & Betts engineers developed the Deltec® Cable Support System. The Deltec® System is safe and easy to install with a guaranteed weatherable life, even at temperatures as low as -85° F.

A three-piece, three-material engineered design provides the ideal solution for bundling in harsh outdoor environments. The Deltec® System combines the strength and rigidity of an injection-molded head with marine-grade copper barbs and a soft and pliable, stress-resistant, extruded body. The unique multi-piece design with separate head and strapping also allows installers to select and customize the strap length for any application. The Deltec® System provides the ultimate in cable support and management for your most demanding applications.





Advantages of the Deltec® System Include:

- Designed to perform a minimum of 20 years outdoors
- Continuous use temperature: -85° F to 194° F (-65° C to 90° C)
- No sharp edges
- Perfect for coaxial, fiber optic and all other communication and electrical conducting cables
- Total flexibility in length when using reel
- Extruded body provides total flexibility in length from 10" to 5.000 feet
- Made in the USA

- Rodents and other pests won't eat it
- Strap and Body: Weatherable acetal; offers superior resistance to sunlight, moisture and salt environments
- Locking Device: Marine-grade corrosionresistant copper alloy
- Installation Temperature Range:
 -30° F to 150° F (-34° C to 66° C)
- Minimum Tensile Strength: 250 lbs. (1,211 N)
- Continuous Load: 20 lbs. (9.07 kg)





Extra security!

Deltec® Cable Tie with Double-Locking Head

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

Note: Use WT3D Tool for tensioning and cutoff.

..... Specifications

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



STD. PKG. CAT. NO.	BODY WIDTH IN./MM	LENGTH IN./MM	MAX BUNDLE DIA. IN./MM	TENSILE Strength LBS./N	STD. PKG. QTY.
CSS-100	.5/12.70	10/254.00	3/76.20	250/1,112	50
CSS-135	.5/12.70	13.5/342.90	3.5/88.90	250/1,112	50
CSS-160	.5/12.70	16/406.40	4/101.60	250/1,112	50
CSS-270	.5/12.70	27/685.80	8/203.20	250/1,112	25



United States

Tel: 901.252.8000 800.816.7809 Fax: 901.252.1354 **Technical Services**

Tel: 888.862.3289







Deltec[®] Cable Tie and Support System

Cut to the length you need!

Deltec® Strap Dispenser on Reels

STD PKG. CAT. NO.	DESCRIPTION	TENSILE STRENGTH LBS./N	BODY WIDTH IN./MM	STD. PKG. QTY.
CSS-50R	50' Reel of Strap	250/1,112	.50/12.70	1
696-41794	1,000' Reel of Strap	250/1,112	.50/12.70	1
696-41952	3,500' Reel of Strap	250/1,112	.50/12.70	1



One spacer for any cable size!

Modular Stackable Cable Spacers

- Stackable for any desired spacing
- · Less inventory one catalog number
- 1/2" high



STD PKG. CAT. NO.	DESCRIPTION	STD. PKG. QTY.
TCP5255	Modular Stackable Spacer for Deltec® Straps	25
TCP360	For Coaxial Cable	100

- · Made of weather-resistant polypropylene
- Color Black

Heads for Deltec® strap! **Locking Heads**

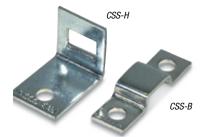


STD PKG. CAT. NO.	DESCRIPTION	STD. PKG. QTY.
CSS-LH	Heads only for Deltec® Strap	25
696-41795	Heads only for Deltec® Strap	1,000

- · Made of weatherable acetal
- Color Black

Secures cables to all types of surfaces.

Deltec® Base and Hanger



STD PKG. Cat. No.	DESCRIPTION	STD. PKG. QTY.
CSS-B	Base for Deltec® Strap	50
CSS-H	Hanger for Deltec® Strap	50

· Made of zinc-plated steel

Install ties easily!

Installation/Cutting Tool

STD PKG. CAT. NO.	DESCRIPTION	RANGE	WT. EACH	STD. PKG. QTY.
WT3D	Installs self-locking Ty-Rap® cable ties, lashing ties and Deltec® System	.184 thru .500	8 oz.	1

Twist tool handle one-half turn to cut strapping.





United States

Tel: 901.252.8000 800.816.7809 Fax: 901.252.1354









Ty-Rap® High-Performance Stainless Steel Cable Ties

Engineered Ty-Rap® Tough to Withstand the World's Harshest Environments!



Ty-Rap®

Stainless Steel Cable Ties

Ball-Lock Ties

- Polyester-coated 316 grade (marine-grade) stainless steel
- Uncoated 302/304 grade stainless steel
- Uncoated 316 grade (marine-grade) stainless steel

Roller-Locking Ties

- Uncoated 302/304 grade stainless steel
- Uncoated 316 grade (marine-grade) stainless steel

Dual-Lock Ties

- · Uncoated 304 grade stainless steel
- · Also available in uncoated 316 grade stainless steel

Re-Usable Ties

- Nylon 11-coated 200/300 series stainless steel
- Also available in nylon 11-coated 316 grade stainless steel

Free-End Clamps

Uncoated 201 grade stainless steel

Multi-Lok Stainless Steel Self-Locking Ties

- · Nylon-coated 316 grade stainless steel
- Uncoated 316 grade stainless steel

Stainless Steel Strap Ties

Uncoated 316 grade stainless steel

Thomas@Betts

United States
Tel: 901.252.8000
800.816.7809
Fax: 901.252.1354

Technical Services
Tel: 888.862.3289

www.tnb.com

Ty-Rap[®] High-Performance Stainless Steel Cable Ties

Safe and easy to install! Designed for continuous exposure to salt spray, sunlight, petroleum and chemicals!

Ty-Rap® Polyester-Coated Stainless **Steel Ball-Lock Cable Ties**

Stainless steel offers excellent strength, durability and corrosion-resistance properties. But to stand up to the harshest environments in the world, such as those found on offshore drilling rigs, petroleum refineries, shipyards and chemical processing plants, even stainless steel needs an added layer of protection. That's why Ty-Rap® has added coated ties to its line of stainless steel cable ties. These new ties offer the same easy-to-install, low-profile, secure ball-lock mechanism as standard Ty-Rap® stainless steel ball-lock ties, but they're fully coated with a layer of rugged polyester to seal out salt, moisture, chemicals and UV radiation. Put these Ty-Rap® tough ties to the test against the elements in your harshest applications!

- 316 grade (marine-grade) stainless steel construction for strength and durability
- Fully coated with polyester to resist corrosion, UV radiation, temperature extremes, chemicals, impact, abrasion and cracking
- Rolled wire versus traditional slot steel to ensure no sharp edges
- Low-smoke, halogen-free polyester coating offers added personnel safety
- Pointed tail enables fast, easy insertion
- · Low-profile ball in wedge-shaped head locks tie securely in place
- Wide operating temperature range of -40° F to 302° F (-40° C to 150° C)
- Certifications/Standards: Lloyds Register, DNV. GL. CE. RoHS

CAT. NO.	LENTH (IN/MM)	WIDTH (IN/MM)	MAX. BUNDLE DIA. (IN/MM)	TENSILE STRENGTH (IN/MM)	STD. PKG. QTY.				
316 Grade Stainless Steel — Fully Polyester Coated									
LS-4.6-200-C	7.9/201	.18/4.6	2/51	100/444.8	100				
LS-4.6-260-C	10.2/259	.18/4.6	27/69	100/444.8	100				
LS-4.6-360-C	14.3/362	.18/4.6	4/102	100/444.8	100				
LS-4.6-520-C	20.5/521	.18/4.6	6/152	100/444.8	100				
LS-4.6-680-C	26.8/679	.18/4.6	8/203	100/444.8	100				
LS-7.9-200-C	7.9/201	.31/7.9	2/51	250/1112	50				
LS-7.9-360-C	14.3/362	.31/7.9	4/102	250/1112	50				
LS-7.9-520-C	20.5/521	.31/7.9	6/152	250/1112	50				
LS-7.9-680-C	26.8/679	.31/ 7.9	8/203	250/1112	50				







Ty-Rap® High-Performance Stainless Steel Cable Ties

Safe and easy to install! Ty-Rap® Ball-Lock Stainless Steel Ties

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

Fast, easy installation

- Self-locking no time-consuming crimping or folding
- Stainless steel ball in low-profile, wedge-shaped head locks tie securely in place
- Angled tail enables fast, easy insertion
- Rounded edges and smooth surfaces protect installer's hands

Two materials suit a variety of environments

- 302/304 grade stainless steel for standard applications
- 316 grade (marine-grade) stainless steel for extra corrosion resistance

Typical Applications

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

..... Specifications..

Operating Temp. Range:

-112° F to 1,000° F (-80° C to 538° C)

Application Tool DAS250 HAND TOOL

(Adjustable tension, automatic cut-off)



CAT. NO.	LENTH (IN/MM)	WIDTH (IN/MM)	MAX. BUNDLE DIA. (IN/MM)	TENSILE STRENGTH (IN/MM)	STD. PKG. QTY.
302/304 Grade Stainles	ss Steel — Uncoated				
-S-4.6-200A	7.9/201	.18/4.6	2/51	100/444.8	100
.S-4.6-260A	10.2/259	.18/4.6	2.9/69	100/444.8	100
.S-4.6-360A	14.2/360	.18/4.6	4 /102	100/444.8	100
S-4.6-520A	20.5/520	.18/4.6	6/152	100/444.8	100
.S-4.6-680A	26.7/679	.18/4.6	8/203	100/444.8	100
.S-4.6-840A	33.0/838	.18/4.6	10/254	100/444.8	100
S-7.9-200A	7.9/201	.31/7.9	2/51	250/1112	50
.S-7.9-360A	14.2/360	.31/7.9	4/102	250/1112	50
.S-7.9-520A	20.5/520	.31/7.9	6/152	250/1112	50
.S-7.9-680A	26.7/679	.31/7.9	8/203	250/1112	50
.S-7.9-840A	33.0/838	.31/7.9	10/254	250/1112	50
S-7.9-1010A	41.3/1050	.31/7.9	12.5/318	250/1112	50
316 Grade Stainless St	eel — Uncoated				
.S-4.6-200B	7.9/201	.18/4.6	2/51	100/444.8	100
S-4.6-260B	10.2/259	.18/4.6	2.7/69	100/444.8	100
.S-4.6-360B	14.2/360	.18/4.6	4 /102	100/444.8	100
S-4.6-520B	20.5/520	.18/4.6	6/152	100/444.8	100
.S-4.6-680B	26.7/679	.18/4.6	8/203	100/444.8	100
.S-4.6-840B	33.0/838	.18/4.6	10/254	100/444.8	100
.S-7.9-200B	7.9/201	.31/7.9	2/51	250/1112	50
S-7.9-360B	14.2/360	.31/7.9	4/102	250/1112	50
S-7.9-520B	20.5/520	.31/7.9	6/152	250/1112	50
.S-7.9-680B	26.7/679	.31/7.9	8/203	250/1112	50
.S-7.9-840B	33.0/838	.31/7.9	10/254	250/1112	50
.S-7.9-1010B	41.3/1050	.31/7.9	12.5/318	250/1112	50



Tel: 901.252.8000 800.816.7809 Fax: 901.252.1354







Ty-Rap[®] High-Performance Stainless Steel Cable Ties

Multiple barb lock design!

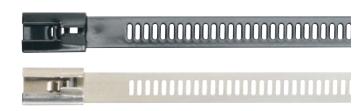
Ty-Rap® Multi-Lok Stainless **Steel Self-Locking Cable Ties**

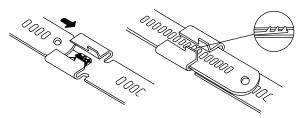
Fire hazards — corrosive environments — temperature extremes for many cable bundling applications, plastic ties are simply inadequateor even dangerous.

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, Multi-Lok Ties feature a unique, self-locking, multiple-locking system that holds in excess of 200 lbs.

Nylon II coating is halogen-free and non-toxic black. This weather-resistant coating is unaffected by UV sunlight. This adds resistance to corrosion, chemicals and weathering. Preferred stainless steel strap eliminates sharp edges.





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.

Type 316 Stainless Steel — Nylon 11 Halogen-Free Coated



		WIDTH		LENGTH		WEIGHT	
	TENSILE STRENGTH —			LENGTH		WEIGHT.	
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 Steel — Uncoated

71							
	TENSILE STRENGTH —	WIDTH		LENGTH		WEIGHT	
CAT. NO.	LBS	IN	ММ	IN	ММ	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



United States Tel: 901.252.8000

800.816.7809 Fax: 901.252.1354 **Technical Services** Tel: 888.862.3289







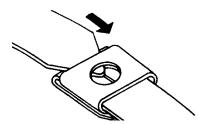
Ty-Rap® High-Performance Stainless Steel Cable Ties

Strong and slip-free with a unique dual lock.

Ty-Rap® Dual-Lock Stainless Steel Cable Ties

- 304 grade stainless steel construction
- · Two-piece design
- Fast, easy installation
- . Mini ties (.18" wide) offer 100 lbs. tensile strength
- Standard ties (.25" wide) offer 200 lbs. tensile strength
- Also available in 316 grade stainless steel (to order, add -316 suffix to catalog number)





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.

	FOR BUNDLE	TENSILE	WIDTH	LENGTH	WEIGHT	CTD
CAT. NO.	DIAMETER OF IN/MM	STRENGTH LBS/N	IN/MM	IN/MM	WEIGHT LBS/KG	STD. PKG. QTY.
Mini Stainless Steel C	able Ties					
SS7-180	1/25	100/444.8	.18/4.5	6.5/165	.70/.32	100
SS10-180	2/51	100/444.8	.18/4.5	10.0/254	.90/.41	100
SS16-180	4/102	100/444.8	.18/4.5	16.0/406	1.40/.64	100
SS23-180	6//152	100/444.8	.18/4.5	22.5/572	1.85/.84	100
SS29-180	8/203	100/444.8	.18/4.5	29.0/737	2.35/1.07	100
Standard Stainless St	eel Cable Ties					
SS10-250	2/51	200/890	.25/6.35	10.0/254	1.10/.50	100
SS17-250	4/101	200/890	.25/6.35	16.5/419	1.80/.82	100
SS23-250	6/152	200/890	.25/6.35	22.5/572	2.50/1.13	100
SS29-250	8/203	200/890	.25/6.35	29.0/737	3.20/1.45	100
SS35-250	10/254	200/890	.25/6.35	35.0/ 889	3.80/1.72	100
004.00-1-1						

304 Stainless Steel

.015" (.38mm) Thickness

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



Fax: 901.252.1354

Technical Services Tel: 888.862.3289



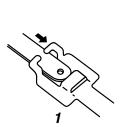


Ty-Rap® High-Performance Stainless Steel Cable Ties

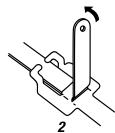
Ties to use and re-use with quickness and ease! Ty-Rap® Re-Usable Stainless Steel Cable Ties

- 200/300 series stainless steel construction
- Fully coated in non-toxic, halogen-free low-smoke Nylon 11 for extra corrosion resistance
- Unique buckle design for easy application and re-use
- May be double-wrapped for additional tensile strength
- Also available in 316 grade stainless steel (to order, add -316 suffix to catalog number)

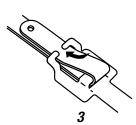




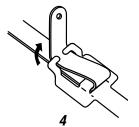
Insert cable tie tail through holding tabs and locking emboss



Bend cable tie tail up



Insert cable tie tail back through holding tabs, creating as tight a bend as possible



For increased tensile strength follow steps #4 and #5 *Patent Pending

Bend cable tie tail up

Fold cable tie tail over holding tabs

CAT. NO.	TENSILE STRENGTH (LBS/N)	WIDTH (IN/MM)	LENGTH (IN/MM)	WEIGHT (LBS/KG)	STD. PKG. QTY.
SSR6-250C	75/333.60	.25/6.35	6/152	1.4/.64	100
SSR9-250C	75/333.60	.25/6.35	9/229	1.8/.82	100
SSR12-250C	75/333.60	.25/6.35	12/305	2.1/.95	100
SSR18-250C	75/333.60	.25/6.35	18/457	3.0/1.36	100
SSR24-250C	75/333.60	.25/6.35	24/610	3.7/1.68	100
SSR6-375C	100/444.80	.38/9.53	6/152	1.8/.82	100
SSR9-375C	100/444.80	.38/9.53	9/229	2.0/.91	100
SSR12-375C	100/444.80	.38/9.53	12/305	3.1/1.41	100
SSR18-375C	100/444.80	.38/9.53	18/457	4.4/2.00	100
SSR24-375C	100/444.80	.38/9.53	24/610	6.6/2.99	100
SSR30-375C	100/444.80	.38/9.53	30/762	7.0/3.18	100
SSR36-375C	100/444.80	.38/9.53	36/914	8.3/3.76	100

Material: 200/300 Series Stainless Steel

.015" (.38mm) metal thickness; .045" (1.1mm) coated thickness

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.





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Ty-Rap® High-Performance Stainless Steel Cable Ties

Pre-assembled for single or double wrapping. **Ty-Rap® Free-End Stainless Steel Clamps**

- 201 grade stainless steel construction
- Double-wrapped clamps provide extra strength
- Available in various lengths, widths and thicknesses



CAT. NO.	MAX. DIA. ONCE Around In/MM	MAX. DIA. TWICE AROUND IN/MM	LENGTH IN/MM	TENSILE STRENGTH SINGLE WRAP LBS/N	BAND WIDTH In/MM	BAND THICKNESS IN/MM	WEIGHT LBS/KG	STD. PKG. QTY.
SSH10-250	2/50	_	10/25	450/2002	.25/6.35	.02/.51	2.2/1.00	100
SSH16-250	3.5/88	1.5/38	16/40	450/2002	.25/6.35	.02/.51	3.1/1.41	100
SSH16-375	3.5/88	1.5/38	16/40	900/4003	.38/9.53	.03/.63	6.2/2.81	100
SSH18-500	4/101	2/50	18/45	1,400/6228	.5/12.70	.03/.76	10.5/4.76	100
SSH19-250	5/127	2.5/63	19/48	450/2002	.25/6.35	.02/.51	3.5/1.59	100
SSH21-625	5/127	2.5/63	21/53	1,700/7562	.63/15.88	.03/.76	15.1/6.85	100
SSH24-750	6/152	3/76	24/60	2,000/8896	.75/19.05	.03/.76	10.9/4.94	50
SSH27-250	7/177	3.5/88	27/68	450/2002	.25/6.35	.02/.51	4.6/2.09	100
SSH31-500	8/203	4/101	31/78	1,400/6228	.5/12.70	.03/.76	4.7/2.13	25
SSH34-250	9/228	4.5/114	34/86	450/2002	.25/6.35	.02/.51	5.6/2.54	100
SSH37-750	10/254	5/127	37/93	2,000/8896	.75/19.05	.03/.76	7.6/3.45	25
SSH44-375	12/304	6/152	44/112	900/4003	.38/9.53	.03/.76	3.6/1.69	25
SSH50-750	14/355	7/177	50/127	2,000/8896	.75/19.05	.03/.76	9.7/4.40	25
SSH56-625	16/406	8/203	56/142	1,700/7562	.63/15.88	.03/.76	9.0/4.08	25
SSH62-750	18/457	9/228	62/157	2,000/8896	.75/19.05	.03/.76	11.6/5.26	25
SSH69-625	20/508	10/254	69/175	1,700/7562	.63/15.88	.00/.76	10.7/4.86	25

Type 201 Stainless Steel

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

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

Ty-Rap® Stainless Steel Strap Cable Ties

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



CAT. NO.	BODY WIDTH IN/MM	LENGTH IN/MM	MAX. WIRE BUNDLE DIA. IN/MM	TENSILE STRENGTH LBS/N	STD. PKG. QTY.
TYS8	.31/7.87	10.65/270.51	2/50.80	200/889.60	100
TYS14	.31/7.87	14.65/372.11	4/101.60	200/889.60	50
TYS22	.31/7.87	22.65/575.31	6/152.40	200/889.60	50
TYS28	.31/7.87	28.65/727.71	8/203.20	200/889.60	50

Note: Use WT3S Tool for tensioning

Cannot be coated with any covering material

Made of 316 stainless steel

Technical Services







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

Stainless Steel Strapping on a Reel



CAT. NO.	DESCRIPTION	WIDTH IN/MM	STRENGTH LBS/N	STD. PKG. QTY.
TYS1000	1,000 ft. of strap, 2 reels of 500 ft. each	.31/7.87	200/889.60	1

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

Note: Use WT3S tool for tensioning

Lockable heads for stainless steel strapping.

Stainless Steel Strapping Locking Heads



CAT. NO.	DESCRIPTION	STD. PKG. QTY.
TYS5200H	Heads only for stainless strapping	50

Long-lasting anchor hold.

Stainless Steel Mounting Base



CAT. NO.	DESCRIPTION	STD. PKG. QTY.
TCS25	Mounting base for stainless steel ties	50







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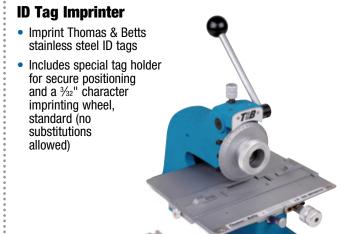
Identify cable bundles with permanent, stainless steel imprintable tags.

ID Tagging System

- Apply Type 304 stainless steel tags with stainless steel cable ties
- Easy-to-use slip a tie through the slots in the tag and fasten with the installation tool
- Works with ¼" wide ties
- .015" thickness



No second guessing — quickly and accurately position ID tags!



CAT. NO.	WIDTH IN/MM	LENGTH IN/MM	WEIGHT PER 100 LBS/N	STD. PKG. QTY.
SSID100	.75/	2.0/	.5/	100
	19.05	50.80	2.22	
SSID101	1.50/	2.5/	1.2/	100
	38.10	63.50	5.34	
SSID102	.75/	3.5/	.8/	100
	19.05	88.90	3.56	

Packaging Quantity: 100/box

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

Add suffix (316) for 316 Stainless Steel.

CAT. NO.	DESCRIPTION	WEIGHT LBS/N
WTID200	I.D. Tag Imprinter	29.5/131.2
WTID290	3/32" Character Imprinting Wheel	_
WTID281	1/s" Character Imprinting Wheel	-
WTID283	%₅" Character Imprinting Wheel	_
WTID204	(Kit) WTID200 and WTID 283	-
Packanina Ou	antity: 1/hov	

Stainless Steel ID Tag Strips/Carriers



CAT. NO.	DESCRIPTION	LENGTH IN/MM	WIDTH IN/MM	WT. PER 100 LBS	STD. PKG. QTY.
ER043	6-Character Carrier	3.64/92.46	.38/9.65	.73	100
ER044	10-Character Carrier	5.14/130.56	.38/9.65	1.25	100
ER045	16-Character Carrier	7.39/187.71	.38/9.65	1.47	100
ER050	Short Strip	4.25/107.95	.38/9.65	.98	100
ER051	Medium Strip	5.75/146.05	.38/9.65	1.33	100
ER052	Long Strip	8.00/203.20	.38/9.65	1.85	100
ER060	I.D. Tag Kit	_	_	_	1

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



United States

Tel: 901.252.8000 800.816.7809 Fax: 901.252.1354 Technical Services Tel: 888.862.3289





Letters, numbers, and symbols — create easy-to-use custom identifications!

Stainless Steel ID Tags

 Slip tags over carriers or strips (see previous page) and attach to your cable or hose with a variety of Thomas & Betts Stainless Steel Cable Ties



CAT. NO.	DESCRIPTION	LENGTH IN/MM	WIDTH IN/MM	WT. PER 100	STD. PKG. QTY.
R010	A	.45/2.00	.38/1.69	.31	100
R011	В	.45/2.00	.38/1.69	.31	100
R012	С	.45/2.00	.38/1.69	.31	100
R013	D	.45/2.00	.38/1.69	.31	100
R014	E	.45/2.00	.38/1.69	.31	100
R015	F	.45/2.00	.38/1.69	.31	100
1016	G	.45/2.00	.38/1.69	.31	100
R017	Н	.45/2.00	.38/1.69	.31	100
018		.45/2.00	.38/1.69	.31	100
1019	J	.45/2.00	.38/1.69	.31	100
1020	K	.45/2.00	.38/1.69	.31	100
1021	L	.45/2.00	.38/1.69	.31	100
1022	M+W	.45/2.00	.38/1.69	.31	100
1023	N	.45/2.00	.38/1.69	.31	100
1024	0	.45/2.00	.38/1.69	.31	100
R025	P	.45/2.00	.38/1.69	.31	100
R026	Q	.45/2.00	.38/1.69	.31	100
027	R	.45/2.00	.38/1.69	.31	100
028	S	.45/2.00	.38/1.69	.31	100
029	T	.45/2.00	.38/1.69	.31	100
030	U	.45/2.00	.38/1.69	.31	100
031	V	.45/2.00	.38/1.69	.31	100
032	X	.45/2.00	.38/1.69	.31	100
033	Υ	.45/2.00	.38/1.69	.31	100
034	Z	.45/2.00	.38/1.69	.31	100
018	1	.45/2.00	.38/1.69	.31	100
037	2	.45/2.00	.38/1.69	.31	100
038	3	.45/2.00	.38/1.69	.31	100
039	4	.45/2.00	.38/1.69	.31	100
040	5	.45/2.00	.38/1.69	.31	100
1041	6	.45/2.00	.38/1.69	.31	100
R021	7	.45/2.00	.38/1.69	.31	100
042	8	.45/2.00	.38/1.69	.31	100
041	9	.45/2.00	.38/1.69	.31	100
024	0	.45/2.00	.38/1.69	.31	100
035	Minus/Hyphen (-)	.45/2.00	.38/1.69	.31	100
036	Blank ()	.45/2.00	.38/1.69	.31	100
046	Plus (+)	.45/2.00	.38/1.69	.31	100
047	Earth (≈)	.45/2.00	.38/1.69	.31	100
1048	Sine (~)	.45/2.00	.38/1.69	.31	100
R049	Slash (/)	.45/2.00	.38/1.69	.31	100
naractor cizo: 218"	Material: 025" 216 etainlace etaal	.10/ 2.00	.00/1.00	.01	100

Character size: .218" Material: .025" 316 stainless steel





1-800-453-1692



800.816.7809 Fax: 901.252.1354



Ty-Rap®

Ty-Rap® High-Performance Stainless Steel Cable Ties

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Type LS Heavy-Duty Stainless Steel Ball-Lock Cable Ties — Uncoated



Type LS Heavy-Duty Stainless Steel Ball-Lock Cable Ties — Coated



Type TYS Multi-Lok Stainless Steel Ties — Uncoated



Type TYS Multi-Lok Stainless Steel Ties — Coated



Type SS Mini Stainless Steel Cable Ties



Type SS Standard Stainless Steel Cable Ties

Stainless Steel Cable Tie Specifications

CAT. NO.		WIDTH	LENGTH IN./MM	THICKNESS IN./MM	MAX. DIA. SINGLE WRAP IN./MM	MAX. DIA. DOUBLE WRAP IN./MM	
	y-Duty Stainles:	IN./MM			IN./IVIIVI	IN./WIVI	
Uncoated	y-Duty Stanness	Sicci Daii-Lu	UN GADIE 1163)			
LS-4.6-200A		.18/4.6	7.9/201	_	2/51	(single	
LS-4.6-360A		.18/4.6	14.2/360		4/102	wrap	
LS-4.6-520A		.18/4.6	20.5/520		6/152	only)	
LS-4.6-680A		.18/4.6	26.7/679	_	8/203	Offiy)	
LS-4.6-840A		.18/4.6	33.0/838		10/254		
LS-7.9-200A		.31/7.9	7.9/201		2/51	(single	
LS-7.9-260A LS-7.9-360A		.31/7.9	14.2/360	_	4/102	wrap	
LS-7.9-500A LS-7.9-520A		.31/7.9	20.5/520		6/152	only)	
LS-7.9-680A		.31/7.9	26.7/679	_	8/203	Offigy	
LS-7.9-840A		.31/7.9	33.0/838	_	10/254		
LS-7.9-1010A		.31/7.9	41.3/1050		12.5/318		
E0-7:9-1010A	Fully Polyester		41.0/1000		12.3/310		
Uncoated	Coated	1					
LS-4.6-200B	LS-4.6-200-C	.18/4.6	7.9/201	_	2/51	(single	
LS-4.6-360B	LS-4.6-360-C	.18/4.6	14.2/360	_	4/102	wrap	
LS-4.6-520B	LS-4.6-520-C	.18/4.6	20.5/520	_	6/152	only)	
LS-4.6-680B	LS-4.6-680-C	.18/4.6	26.7/679	_	8/203)	
LS-4.6-840B	_	.18/4.6	33.0/838	_	10/254		
LS-7.9-200B	LS-7.9-200-C	.31/7.9	7.9/201		2/51	(single	
LS-7.9-360B	LS-7.9-360-C	.31/7.9	14.2/360	_	4/102	wrap	
LS-7.9-520B	LS-7.9-520-C	.31/7.9	20.5/520	_	6/152	only)	
LS-7.9-680B	LS-7.9-680-C	.31/7.9	26.7/679	_	8/203	3,	
LS-7.9-840B	_	.31/7.9	33.0/838	_	10/254		
LS-7.9-1010B	_	.31/7.9	41.3/1050	_	12.5/318		
	ti-Lok Stainless						
Uncoated	Nylon 11 Coate						
TYS6-280	TYS6-280C	.28/7.00	6/152	.01/.25	1.9/48	(single	
TYS9-280	TYS9-280C	.28/7.00	9/229	.01/.25	2.8/71	wrap	
TYS12-280	TYS12-280C	.28/7.00	12/305	.01/.25	3.8/96	only)	
TYS18-280	TYS18-280C	.28/7.00	18/457	.01/.25	5.7/144	3y _/	
TYS24-280	TYS24-280C	.28/7.00	24/610	.01/.25	7.6/193		
TYS6-470	TYS6-470C	.47/12.00	6/152	.01/.25	1.9/48		
TYS9-470	TYS9-470C	.47/12.00	9/229	.01/.25	2.8/71		
TYS12-470	TYS12-470C	.47/12.00	12/305	.01/.25	3.8/96		
TYS18-470	TYS18-470C	.47/12.00	18/457	.01/.25	5.7/144		
TYS24-470	TYS24-470C	.47/12.00	24/610	.01/.25	7.6/193		
1	Stainless Steel						
SS7-180		.18/4.50	6.5/165	.02/.51	1.7/43	(single	
SS10-180		.18/4.50	10/254	.02/.51	2.8/71	wrap	
SS16-180		.18/4.50	16/406	.02/.51	4.7/119	only)	
SS23-180		.18/4.50	22.5/572	.02/.51	6/152	VIII,)	
SS29-180		.18/4.50	29.0/737	.02/.51	8/203		
	dard Stainless S			.02/.01	G/200		
SS10-250	0 0 0 0 0	.25/6.35	10/254	.02/.51	2.1/53		
SS17-250		.25/6.35	16.5/419	.02/.51	4.3/109	(single	
SS23-250		.25/6.35	22.5/572	.02/.51	6.5/165	wrap	
SS29-250		.25/6.35	29/737	.02/.51	8.5/215	only)	
SS35-250		.25/6.35	35/889	.02/.51	10.5/265	VIII,)	
		0, 0.00	00,000	.027.01	. 5.5/ 200		

Tel: 888.862.3289







STAINLESS STEEL Type	COATING Or Finish	MIN. LOOP TENSILE STRENGTH SINGLE WRAP LBS./N	MIN. LOOP TENSILE STRENGTH DOUBLE WRAP LBS./N	APPLICATION TOOLS USED	GENERAL Application
302/304	Dull	100/445	(single	DAS250	
302/304		100/445	wrap	DAS250	
302/304		100/445	only)	DAS250	
302/304		100/445		DAS250	
302/304		100/445		DAS250	_
302/304		250/1,112		DAS250	
302/304		250/1,112		DAS250	
302/304 302/304		250/1,112		DAS250 DAS250	
		250/1,112		DAS250 DAS250	
302/304 302/304		250/1,112		DAS250 DAS250	Offshore drilling
302/304	'	250/1,112		DAGZOU	Petrochemical processing
					 Shipbuilding
316	Uncoated	100/445	(single	DAS250	Food & Beverage processing
316	or Fully	100/445	wrap	DAS250	Pharmaceutical processing
316	Polyester	100/445	only)	DAS250	
316	Coated Black	100/445	omy	DAS250	
316	Coulcu Diagn	100/445		DAS250	
316		250/1,112		DAS250	_
316		250/1,112		DAS250	
316		250/1,112		DAS250	
316		250/1,112		DAS250	
316		250/1,112		DAS250	
316		250/1,112		DAS250	
		,			
316	Uncoated or	250/1,112	(single	WTAE200	
316	Nylon 11	250/1,112	wrap	WTAE200	
316	Coated Black	250/1,112	only)	WTAE200	
316		250/1,112	•	WTAE200	Self-locking
316		250/1,112		WTAE201	Cable bundling
316		400/1,779		WTC075	Hazardous and corrosive
316		400/1,779		WTC075	environments
316		400/1,779		WTC075	
316		400/1,779		WTC075	
316		400/1,779		WTC075	
304*	Dull to Bright	100/445	(single	WTA290	
304*		100/445	wrap	WTA290	 Wire/cable bundling
304*		100/445	only)	WTA290	I.D. tagging
304*		100/445		WTA290	
304*		100/445		WTA290	
304*	Dull to Bright	200/890		WTA250	
304*		200/890	(single	WTA250	Wire/cable bundling
304*		200/890	wrap	WTA250	I.D. tagging
304*		200/890	only)	WTA250	
304*		200/890		WTA250	
+00 : : : : : : :					

* SS series also available in Type 316 stainless.



Fax: 901.252.1354





Ty-Rap®

Ty-Rap® High-Performance Stainless Steel Cable Ties

Stainless Steel Cable Tie Specifications (continued)



Type SSR Reusable Stainless Steel Cable Ties



Type SSH Free-End Clamps

CAT. NO.	WIDTH IN./MM	LENGTH IN./MM	THICKNESS IN./MM	MAX. DIA. SINGLE Wrap In./Mm	MAX. DIA. DOUBLE WRAP IN./MM	
Type SSR Reusa	ble Stainless S	teel Cable Ties		,		
SSR6-250C	.25/6.35	6/152	.02/.51	1.5/38	N/A	
SSR9-250C	.25/6.35	9/229	.02/.51	2.5/63	1.1/28	
SSR12-250C	.25/6.35	12/305	.02/.51	3.4/86	1.5/38	
SSR18-250C	.25/6.35	18/457	.02/.51	5.4/137	2.5/64	
SSR24-250C	.25/6.35	24/610	.02/.51	7.3/185	3.5/89	
SSR6-375C	.38/9.53	6/152	.02/.51	1.5/38	N/A	
SSR9-375C	.38/9.53	9/229	.02/.51	2.5/63	1.1/28	
SSR12-375C	.38/9.53	12/305	.02/.51	3.4/86	1.5/38	
SSR18-375C	.38/9.53	18/457	.02/.51	5.4/137	2.5/64	
SSR24-375C	.38/9.53	24/610	.02/.51	7.3/185	3.5/89	
SSR30-375C	.38/9.53	30/762	.02/.51	9.1/231	4.4/112	
SSR36-375C	.38/9.53	36/914	.02/.51	11.0/280	5.3/135	
Type SSH Free-E	nd Clamps					
SSH10-250	.25/6.35	10/250	.02/.51	2.0/50	_	
SSH16-250	.25/6.35	16/400	.02/.51	3.5/88	1.5/38	
SSH19-250	.25/6.35	19/480	.02/.51	5.0/127	2.5/63	
SSH27-250	.25/6.35	27/680	.02/.51	7.0/177	3.5/88	
SSH34-250	.25/6.35	34/860	.02/.51	9.0/228	4.5/114	
SSH16-375	.38/9.53	16/400	.03/.76	3.5/88	1.5/38	
SSH44-375	.38/9.53	44/1,120	.03/.76	12.0/304	6.0/152	
SSH18-500	.5/12.70	18/460	.03/.76	4.0/101	2.0/50	
SSH31-500	.5/12.70	31/780	.03/.76	8.0/203	4.0/101	
SSH21-625	.63/15.88	21/530	.03/.76	5.0/127	2.5/63	
SSH56-625	.63/15.88	56/1,420	.03/.76	16.0/406	8.0/203	
SSH69-625	.63/15.88	69/1,750	.03/.76	20.0/508	10.0/254	
SSH24-750	.75/19.05	24/600	.03/.76	6.0/152	3.0/76	
SSH37-750	.75/19.05	37/940	.03/.76	10.0/254	5.0/127	
SSH50-750	.75/19.05	50/1,270	.03/.76	14.0/355	7.0/177	
SSH62-750	.75/19.05	62/1,570	.03/.76	18.0/457	9.0/228	





1-800-453-1692





STAINLESS STEEL TYPE	COATING OR FINISH	MIN. LOOP TENSILE Strength Single Wrap LBS./N	MIN. LOOP TENSILE Strength double wrap LBS./N	APPLICATION TOOL USED	GENERAL Application
200/300	Nylon 11 Coated	75/334	300/1,334	WTAE200	
200/300	(Uncoated or other	75/334	300/1,334	WTAE200	
200/300	colors available on	75/334	300/1,334	WTAE200	
200/300	special order)	75/334	300/1,334	WTAE200	Reusable
200/300		75/334	300/1,334	WTAE200	Cable bundling Oil ring
200/300		100/445	500/2,224	WTAE200	Oil rigs Telecommunications towers
200/300		100/445	500/2,224	WTAE200	Hazardous and corrosive
200/300		100/445	500/2,224	WTC075	environments
200/300		100/445	500/2,224	WTC075	Cable trays
200/300		100/445	500/2,224	WTC075	
200/300		100/445	500/2,224	WTC075	
200/300		100/445	500/2,224	WTC075	
201	Bright	450/2,002	1,200/5,338	WTJ020/WTC075/WTC001	
201		450/2,002	1,200/5,338	WTJ020/WTC075/WTC001	
201		450/2,002	1,200/5,338	WTJ020/WTC075/WTC001	
201		450/2,002	1,200/5,338	WTJ020/WTC075/WTC001	
201		450/2,002	1,200/5,338	WTJ020/WTC075/WTC001	
201		900/4,003	2,400/10,675	WTJ020/WTC075/WTC001	
201		900/4,003	2,400/10,675	WTJ075/WTC001	Industrial hoses
201		1,400/6,227	3,300/14,678	WTJ075/WTC001	Cable bundling
201		1,400/6,227	3,300/14,678	WTJ075/WTC001	High strength
201		1,700/7,562	4,000/17,792	WTJ075/WTC001	Tilgii odoligai
201		1,700/7,562	4,000/17,792	WTJ075/WTC001	
201		1,700/7,562	4,000/17,792	WTC001	
201		2,000/8,896	5,000/22,240	WTC001	
201		2,000/8,896	5,000/22,240	WTC001	
201		2,000/8,896	5,000/22,240	WTC001	
201		2,000/8,896	5,000/22,240	WTC001	

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





United States

Fax: 901.252.1354

1-800-453-1692 w.aboveboardelectronics.com



Ty-Rap®

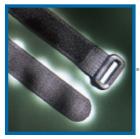
Hook-and-Loop Fasteners



Slotted Loop Ties (FO Series)

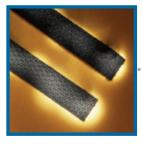
Never lose your strap. Use the slotted head hook-andloop tie to install on one wire while using the body of the strap to bundle.





Buckle Ties (FOL Series)

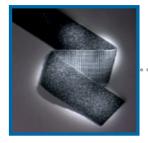
Polymer buckles provide added strength and stability.



Strip Ties (FOS Series)

Pre-cut lengths make bundling a cinch!





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

Rolls (FOR Series)

Fasteners available in these colors: Black, Brown, Red, Orange, Yellow, Green, Blue, Gray, and White. Please consult Customer Service for pricing and availability.





Hook-and-Loop Fasteners

Available in UL94V-2 rated material.

FO, FOL, FOS and FOR Series Hook-and-Loop Fasteners

- High-quality Hook-and-Loop Fasteners
- Reusable great for frequently changed bundles
- · Wide bearing surface ideal for data and fiber optic cable
- Sizes available to accommodate varying bundle diameters
- Flame-retardant and colored material available

STD. PKG. CAT. NO.	MIN. TENSILE Strength LBS./N	MAX. BUNDLE DIA. IN./MM	LENGTH IN./MM	WIDTH IN./MM	STD. PKG. QTY.
FO Series Slotted Loop Ti	ies*				
F0200-40-0	40/177.9	2.0/50.80	9/228.6	.50/12.7	10
F0200-50-0	50/222.4	2.0/50.80	9/228.6	.75/19.05	10
F0350-40-0	50/222.4	3.5/88.90	13/330.2	.50/12.7	10
F0350-50-0	50/222.4	3.5/88.90	13/330.2	.75/19.05	10
FOL Series Buckle Ties					
F0L300-50-0	50/222.4	3.0/76.20	12/304.8	.75	10
F0L500-50-0	50/222.4	5.0/127.0	18/457.2	.75	10
FOS Series Strip Ties					
F0S150-50-0	50/222.4	1.5/38.10	6/152.4	.75	10
F0S320-50-0	50/222.4	3.2/81.28	12/304.8	.75	10
F0S500-50-0	50/222.4	5.0/127.00	18/457.2	.75	10
FOR Series Rolled Hook a	and Loop				
F0R180-50-0	50/222.4	Various	180/4572	.75	1

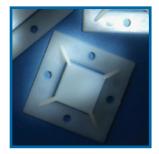
^{• 1/16&}quot; strap thickness

*Add suffix "FR" for UL94V-2 rated flame-retardant material, after color choice.

Contact Customer Service for availability and delivery.

Mounting bases for use with hook-and-loop fasteners.

Nylon 6.6 Mounting Bases



BULK PKG. CAT. NO.	DESCRIPTION	SCREW SIZE	MAXIMUM TIE WIDTH ACCOM.	BULK PKG. QTY.
TC368	2" x 2" Screw Mounted	#8	.75/19.05	500
TC368A	2" x 2" Adhesive Mounted	#8	.75/19.05	500

^{-40°} F to 176° F (-40° C to 80° C)

Note: See expiration date on TC368A package. Periodically check product for adhesion and replace as needed. Product is for wire management only and is not intended for use as a primary support of wire, cable, etc.







[·] Black is standard color.

[·] Multiple colors available for identifying specific bundles

[·] Natural nylon color.

Boost productivity and reduce user fatigue in demanding, high-volume cable tie installations!

Ty-Rap® Pneumatic Cable Tie **Installation Tool**

For fast, consistent installation of cable ties in high-volume applications, you can't beat the new Ty-Rap® Pneumatic Cable Tie Installation Tool. Pneumatic power combined with a balanced, ergonomic design enables you to tension and trim large quantities of Ty-Rap® cable ties in rapid succession with accuracy and one-button ease.

- Easy, one-step tensioning and cut-off of cable ties
- Narrow nose rotates 360° to maneuver in tight spaces
- · Easy-access tension-adjustment wheel at nose with locking mechanism for repetitive-tension work
- Spare cutting blade storage in handle
- · Cuts tail off flush no sharp ends to injure installers or damage cables
- Holds tails captive until ejected by operator — no mess to clean up
- · Soft, over-molded grip with over-sized trigger
- Wide cable-tie insertion gap no fumbling to insert tie

..... Specifications

- Dimensions: 10"L x 6¼"H x 15%"D
- Weight: 14 oz.
- Operating Pressure: 85-100 psi (non-lubricated air)

· Cable Tie Tensile-Strength Range: 18-50 lbs.

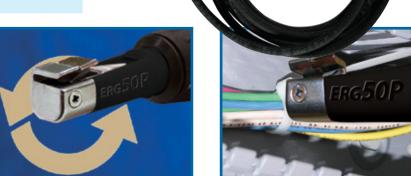
CAT. NO.	DESCRIPTION	STD. PKG. QTY.
ERG50P	Pneumatic Cable Tie Installation Tool	1
	for 18–50 lb. Ties (includes 9-ft. air hose)	



Tightens cable tie and cuts flush in one step



360° rotating nose for maximum flexibility



Narrow-shaped nose for easy reach in tight spaces



United States Tel: 901.252.8000

800.816.7809 Fax: 901.252.1354









C-46

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

Ty-Rap® Cable Tie Installation Tool

Thomas & Betts set out to develop a reliable, high-performance hand-operated cable tie installation tool. It's ergonomic with more features than any competing tool on the market. This new and improved Ty-Rap® Cable Tie Installation Tool is the result, and it fits the bill in every aspect.

Our engineers carefully considered user comfort and designed this rugged yet lightweight, well-balanced tool to reduce stress, fatigue and the risk of cumulative trauma injury to the hand and wrist. They didn't stop with ergonomics, however. This new tool offers a flush cable tie tail-to-head trim, a longer handle stroke requiring less handle force, higher tension capabilities and much, much more!







Eliminate sharp cable tie ends with flush tail-to-head cut-off

......Specifications.....

- Dimensions: 7" (177mm) L x 5" (127mm) H x 15/4" (41.3mm) W
- Weight: 9 oz. (255g)

STD. PKG CAT. NO.	DESCRIPTION	STD. PKG. QTY.
ERG50	Tool for 18-50 lb. (80-222N) Cable Ties	1
ERG120	Tool for 50-120 lb. (222-534N) Cable Ties	1



Most flexible with a 360° rotating nose for use at any angle and in tight spaces



Adjustable grip perfectly fits any hand size



Tension-adjustment wheel on nose for easy access and setting



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Tel: 888.862.3289







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

Ty-Rap[®] Cable Tie Installation Tool — Light Duty

- Installs Ty-Rap cable ties up to .301" wide by .080" thick
- · Designed for use by both left- and right-handed operators
- · Lightweight, high-impact polymer and steel components

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



STD. PKG. CAT. NO.	DESCRIPTION	TIE BODY WIDTH IN./MM	STD. PKG. QTY.
WT1-TB	Cable Tie Installation Tool, 18–50 lbs. (80–222.4N)	.0918/2.39-4.67	1
WT2-TB	Cable Tie Installation Tool, 50–120 lbs. (222.4–533.8N)	.18301/4.67-7.65	1

Cuts tail off — flush.

Ty-Rap[®] Cable Ties Installation Tool — Metallic

- Installs Ty-Rap® cable ties
- · Rugged metallic construction
- Pistol-grip installation tool
- Easy tension adjustment
- · Tensions and cuts tie tail off flush



STD. PKG.	DESCRIPTION	TIE BODY	STD.
CAT. NO.		WIDTH IN./MM	PKG. QTY.
WT193A	Cable Tie Installation Tool, 18–50 lbs. (80–222.4N)	.0918/2.39-4.67	1

Easy tension adjustment!

Ty-Rap[®] Heavy-Duty Installation Tool — Mil Spec Approved

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

STD. PKG.	DESCRIPTION	TIE BODY WIDTH IN./MM	STD. PKG. QTY.
WT199	Installation Tool, 18–50 lbs. (80–222.4N)	.0918/2.39-4.67	1
WT197	Installation Tool, 50-120 lbs. (222.4-533.8N)	.1830/4.67-7.65	1
* Mil Spec	Annroved (WT199 — MS90387-1 WT197 —	- MS90387-2)	

Makes tie installation easy!

Ty-Rap[®] Installation Tool — Deltec[®] & Stainless Steel

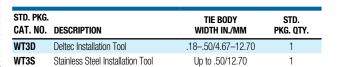
WT2F

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

WT3S

Installs stainless steel ties

WT3





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Tel: 888.862.3289







Get the job done right!

Ty-Rap® Heavy-Duty Installation Tool — Stainless Steel

- Installs Ty-Rap® Ball-Lock and Multi-Lok Stainless Steel Cable Ties
- · Rugged stainless steel construction
- · Pistol-type installation tool
- · Adjustable tension settings



STD. PKG.	DESCRIPTION	TIE BODY	STD.
CAT. NO.		WIDTH IN./MM	PKG. QTY.
DAS250	Stainless Steel Installation Tool	Up to .31/7.87	1



The right tools make installing Ty-Rap® Stainless Steel Cable Ties a cinch!

Installation Tools for Dual-Lock Stainless Steel Ties

- Lightweight
- Easy-to-use tool applies tension, locks tie with the dual lock, and cuts off band flush with top surface of buckle

CAT. NO.	DESCRIPTION	WEIGHT LBS/KG	STD. PKG. QTY.
WTA290	Hand tool to apply mini stainless steel cable ties	1.17/.53	1
WTA250	Hand tool to apply standard stainless steel cable ties	1.17/.53	1



Quality tools for tensioning.

Tensioning Tools





CAT. NO.	DESCRIPTION	WEIGHT LBS/KG	STD. PKG. QTY.
WTAE200	Cable Tie Tensioner, for tensioning Re-Usable Ties and Multi-Lok Ties	.6/.27	1
WTAE201	Tensioning Hook, for tensioning Re-Usable Ties and Multi-Lok Ties	.1/.05	1



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Thomas@Betts

Ty-Rap[®] Installation Tools

Apply tension, cut and secure with confidence!

Installation Tools for Free-End Stainless Steel Ties



WTC001 A drop-forged tool with tensioning capability to do all ¼" to ¾" Free-End Clamp sizes.



WTC075
Designed to install ¼" to ¾" wide Free-End Clamps.
The lightweight, ratchet-action tool tension cuts
and secures the buckle tab.



WTJ020 Lightweight pocket-sized toll to install ¼" and ¾" wide Free-End Clamps. This tool also applies tension and has a built-in cutter.

		WEIGHT	STD.
CAT. NO.	DESCRIPTION	LBS/KG	PKG. QTY.
WTJ020	Compact Free-End Stainless Steel Cable Tie Installation Tool for 1/4" to 3/8" sizes	1.1/.50	1
WTC075	Pistol-Grip Free-End Stainless Steel Cable Tie Installation Tool for 1/4" to 5/6" sizes	2.6/1.18	1
WTC001	Free-End Stainless Steel Cable Tie Installation Tool for All Sizes	4.4/2.00	1

Makes tie installation easy!

Ty-Rap® Installation Tool

· Installs stainless steel ties



CAT. NO.	DESCRIPTION	TIE BODY WIDTH IN./MM.	STD. PKG. QTY.
WT3S	Installation Tool for Stainless Steel Ties	Up to .50/12.70	1

Note: Tensions only



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Technical Services

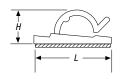


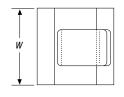


Versatile adhesive clips keep cable paths organized.

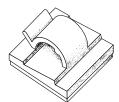
Round Adhesive Clips

- Diverse cable clamps for bundle diameters from .160" to .620"
- · Mounted on a rubber-based closed cell foam adhesive
- · Flexible center tang for removal or addition of cables









BULK PKG. CAT. NO.	MATERIAL	HEIGHT IN./MM	H LENGTH IN./MM	L WIDTH IN./MM	W Maximum Bundle	MOUNTING METHOD	BULK PKG. QTY.
RANY-280-9-D	Nylon	.410/10.41	1.000/25.40	1.000/25.40	.280/7.11	Rubber-based adhesive	500
RANY-530-9-D	Nylon	15.75/.620	1.000/25.40	1.000/25.40	.530/13.46	Rubber-based adhesive	500
RANY-620-9-D	Nylon	14.22/.560	1.250/31.75	28.45	.620/15.75	Rubber-based adhesive	500

Natural nylon color.

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

Note: See product expiration date on package. Periodically check product for adhesion and replace as needed. Product is for wire management only and is not intended for use as a primary support of wire, cable, etc.

Release and refasten with ease — in three adjustable sizes!

Adjustable Cable Clamps

- Three sizes for bundles from .118" to .984"
- · Ladder-style fastener is easily released and refastened
- · Supplied on a rubber-based closed cell foam adhesive
- · Optional screw hole for #4 or #5 flat head screw



STD. PKG CAT. NO.	MATERIAL	A HEIGHT IN./MM	B Length In./MM	S WIDTH In./MM	L Maximum Bundle In./mm	APPLIED WIRE RANGE IN./MM	SCREW HOLE DIAMETER IN./MM	STD. PKG. QTY.
ULNY-013-8-C	Gray Nylon	.709/18.00	.984/24.99	.314/7.98	2.340/59.44	.118500/3.0 - 12.7	.110/2.79	100
ULNY-018-8-C	Gray Nylon	.827/21.00	1.180/29.97	.472/11.99	3.120/79.25	.197827/5.0 - 21.0	.110/2.79	100
ULNY-023-8-C	Gray Nylon	.984/24.99	1.380/35.05	.551/14.00	3.370/79.25	.275984/7.0 - 25.0	.135/3.43	100

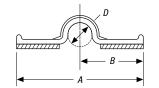
Adhesive for use in temperatures ranging from 32° F to 150° F (0° C to 66° C).

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

Press Clips

- Clips are provided on a rubber-based closed cell foam adhesive
- Stocked in 6.6 natural nylon color. Contact factory for availability in special materials







BULK PKG.		D Diameter	A	В	Н	W	
CAT. NO.	MATERIAL	IN./MM	IN./MM	IN./MM	IN./MM	IN./MM	PKG. QTY.
PCNY-125-9-D	Nylon	.13/3.30	.76/19.30	.38/9.65	.21/5.33	.38/9.65	500
PCNY-250-9-D	Nylon	.25/6.35	1.38/35.05	.69/17.53	.32/8.13	.50/12.70	500
PCNY-375-9-D	Nylon	.38/9.65	1.47/37.34	.74/18.80	.44/11.176	.63/16.00	500
PCNY-500-9-D	Nylon	.50/12.70	1.59/40.39	.80/20.32	.59/15.00	.75/19.05	500

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



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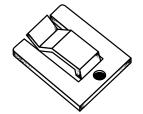


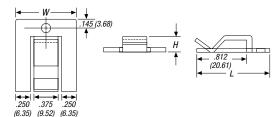


Flat design provides an attractive, yet discreet look.

Flat Cable Screw Clip

- Flat ribbon cable clamp with mounting hole for #8 screw
- Stocked in 6.6 natural nylon color
- Flexible center tang enables easy removal and replacement of desired cable





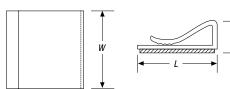
STD. PKG. CAT. NO.	MATERIAL	HEIGHT IN./MM	H LENGTH IN./MM	L WIDTH IN./MM	W MOUNTING METHOD	STD. PKG.
FSNY-812-9-C	Nylon	.25/6.35	1.19/30.23	1.00/25.40	#8 Screw	100

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

Adhesive eliminates need for tools when mounting clips. 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)





STD. PKG. CAT. NO.	BULK PKG. CAT. NO.	MATERIAL	H HEIGHT IN./MM	L Length In./mm	W WIDTH IN./MM	MOUNTING METHOD	STD. PKG. QTY.	BULK PKG. QTY.
FRPV-1000-8-C	FRPV-1000-8-D	Gray PVC	.42/10.67	1.06/26.92	1.00/25.40	Adhesive	100	500

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

Note: See product expiration date on package. Periodically check product for adhesion and replace as needed.

Product is for wire management only and is not intended for use as a primary support of wire, cable, etc.



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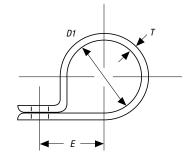


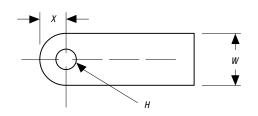
Choose the diameter you need to clamp a specific-sized cable.

Plain Edge Cable Clamps

- · Fully radiused inside edges with size markings in inches and millimeters for easy identification
- Stocked in natural and black nylon 6.6
- Plain edge cable clamps are designed to perform to NAS-1397P
- 18 diameters and 2 widths with mounting holes for #8 and #10 screws
- Replace "-M" or "-D" with "-C" for 100 pack







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

	BLACK CAT. NO.	D1 Closed DIA. In./MM	E IN./MM	T Thickness In./MM	W WIDTH IN./MM	H MOUNTING HOLE SIZE	X IN./MM	BULK PKG. QTY.
4NY-002-9-M	N4NY-002-0-M	.13/3.18	.34/8.71	.05/1.27	.38/9.53	#8	.22/5.54	1,000
14NY-003-9-M	N4NY-003-0-M	.19/4.475	.38/9.60	.05/1.27	.38/9.53	#8	.22/5.54	1,000
4NY-004-9-M	N4NY-004-0-M	.25/6.35	.42/10.70	.05/1.27	.38/9.53	#8	.22/5.54	1,000
4NY-005-9-M	N4NY-005-0-M	.31/7.92	.44/11.20	.05/1.27	.38/9.53	#8	.22/5.54	1,000
4NY-006-9-M	N4NY-006-0-M	.38/9.53	.46/11.79	.05/1.27	.38/9.53	#8	.22/5.54	1,000
4NY-007-9-M	N4NY-007-0-M	.44/11.10	.50/12.70	.05/1.27	.38/9.53	#8	.22/5.54	1,000
4NY-008-9-M	N4NY-008-0-M	.50/12.70	.53/13.46	.05/1.27	.38/9.53	#8	.22/5.54	1,000
6NY-004C-9-M	N6NY-004C-0-M	.25/6.35	.44/11.10	.06/1.52	.50/12.70	#10	.22/5.54	1,000
16NY-005C-9-M	N6NY-005C-0-M	.31/7.92	.47/12.04	.06/1.52	.50/12.70	#10	.22/5.54	1,000
6NY-006C-9-M	N6NY-006C-0-M	.38/9.53	.50/12.70	.06/1.52	.50/12.70	#10	.22/5.54	1,000
6NY-007C-9-M	N6NY-007C-0-M	.44/11.10	.53/13.54	.06/1.52	.50/12.70	#10	.22/5.54	1,000
6NY-008C-9-M	N6NY-008C-0-M	.50/12.70	.55/14.05	.06/1.52	.50/12.70	#10	.22/5.54	1,000
6NY-009-9-M	N6NY-009-0-M	.56/14.27	.60/15.32	.06/1.52	.50/12.70	#10	.22/5.54	1,000
6NY-010-9-M	N6NY-010-0-M	.63/15.88	.63/15.88	.06/1.52	.50/12.70	#10	.22/5.54	1,000
6NY-011-9-M	N6NY-011-0-M	.69/17.45	.67/16.89	.06/1.52	.50/12.70	#10	.22/5.54	1,000
6NY-012-9-M	N6NY-012-0-M	.75/19.05	.67/17.75	.06/1.52	.50/12.70	#10	.22/5.54	1,000
16NY-013-9-M	N6NY-013-0-M	.81/20.62	.77/19.43	.06/1.52	.50/12.70	#10	.22/5.54	1,000
16NY-014-9-M	N6NY-014-0-M	.88/22.23	.80/20.19	.06/1.52	.50/12.70	#10	.22/5.54	1,000
I6NY-016-9-M	N6NY-016-0-M	1.00/25.40	.83/21.00	.06/1.52	.50/12.70	#10	.22/5.54	1,000
16NY-018-9-D	N6NY-018-0-D	1.13/28.58	.94/23.88	.06/1.52	.50/12.70	#10	.22/5.54	500
16NY-019-9-D	N6NY-019-0-D	1.19/30.15	.96/24.46	.06/1.52	.50/12.70	#10	.22/5.54	500
16NY-020-9-D	N6NY-020-0-D	1.25/31.75	.98/24.90	.06/1.52	.50/12.70	#10	.22/5.54	500
16NY-022-9-D	N6NY-022-0-D	1.38/34.93	1.05/26.54	.06/1.52	.50/12.70	#10	.22/5.54	500
16NY-024-9-D	N6NY-024-0-D	1.50/38.10	1.11/28.30	.06/1.52	.50/12.70	#10	.22/5.54	500

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Several mounting styles available.

Mechanical-Locking Routing Clamps

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

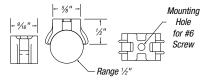


STD. CAT. NO.	MOUNTING HOLE SIZE IN./MM	BUNDLE DIA. IN./MM	MAX. WIRE Bundle Dia.	LENGTH IN./MM	LENGTH IN./MM	STD. PKG. QTY.
TC88	.250/6.35	.500/12.7	.250/6.35	.891/22.63	100	1,000
TC95	.250/6.35	1.000/25.4	.500/12.7	1.590/40.39	100	1,000

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

Ty-Rap® Saddle **Mounting Plate**

· For use with round bundles



STD. PKG. CAT. NO.	MAX TIE WIDTH IN./MM	SIZE IN./MM	BUNDLE HOLE SIZE IN./MM	MOUNTING STD. PKG. QTY.
TC92	.190/4.83	1/2-11/4/12.7-31.75	#6 Screw	100

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

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

Wire-Bundle Retainers

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

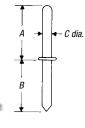


STD. PKG. CAT. NO.		MAX. WIRE BUNDLE DIA.	WIDTH IN./MM	LENGTH IN./MM	HEIGHT IN./MM	STD. PKG. QTY.
TC86	#6 screws	.750/19.05	1.750/44.45	1.813/46.05	25	1,000
TC87	#6 screws	1.250/31.75	2.469/62.71	2.281/57.94	10	1,000

Hardened, nickel-plated, steel construction.

Harness-Board Nails





STD. PKG.		DIMENSIONS		
CAT. NO.	Α	В	C	STD. PKG.
HBP112	1.500/38.10	.625/15.88	.082/2.08	100
HBP2	2.000/50.80	.625/15.88	.092/2.34	100
HBP212	2.500/63.50	.625/15.88	.105/2.67	100
HBP3	3.000/76.20	.625/15.88	.120/3.05	100

Keep wire bundles apart.

Wire-Bundle Spacer



STD. PKG.	MAXIMUM TIE	WIDTH	LENGTH	
CAT. NO.	WIDTH ACCOM.	IN./MM	IN./MM	STD. PKG.
TC5339	.190/4.83	.266/6.76	.500/12.70	100

· Natural nylon color.

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



C-54

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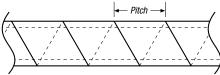
Install with gaps for greater flexibility or butted together for maximum abrasion resistance, insulation and rigidity!

Spiral Wrap

- · Packaged in 100 foot reels
- Protects bundles from .063" to 7" (1.6 mm to 177.8 mm) diameters
- Available in three material types
- Also commonly known as reverse cut, left-handed cut or counter-clockwise cut
- Use cutting tool CC120B (see page C-57)
- UL94HB Flammability Rating







	7		71 °

STD. PKG.		OUTSIDE DIAMETER	PITCH	NOMINAL WALL THICKNESS	MINIMUM/MAXIM	UM BUNDLE RANGE	REEL
CAT. NO.	MATERIAL	IN./MM	IN./MM	IN./MM	IN./MM	IN./MM	QTY.
SRPE-125-9-C	Natural Polyethylene	.13/3.18	.21/5.33	.04/.89	.06/1.60	.50/12.70	1 (100 ft.)
SRPE-187-9-C	Natural Polyethylene	.19/4.75	.24/6.10	.04/1.02	.13/3.18	1.50/38.10	1 (100 ft.)
SRPE-250-9-C	Natural Polyethylene	.25/6.35	.38/9.53	.05/1.14	.19/4.78	2.00/50.80	1 (100 ft.)
SRPE-375-9-C	Natural Polyethylene	.38/9.53	.44/11.13	.05/1.32	.31/7.95	3.00/76.20	1 (100 ft.)
SRPE-500-9-C	Natural Polyethylene	.50/12.70	.56/14.30	.06/1.57	.38/9.53	4.00/101.60	1 (100 ft.)
SRPE-625-9-C	Natural Polyethylene	.63/15.88	.63/15.88	.06/1.57	.63/15.88	4.50/114.30	1 (100 ft.)
SRPE-750-9-C	Natural Polyethylene	.63/15.88	.75/19.05	.07/1.65	.75/19.05	5.00/127.00	1 (100 ft.)
SRPE-1000-9-C	Natural Polyethylene	1.00/25.40	1.11/28.19	.70/17.78	1.0/25.40	7.00/177.80	1 (100 ft.)
SRPE-125-0-C	Weatherable Black Polyethylene	.13/3.18	.21/5.33	.04/.89	.06/1.60	.50/12.70	1 (100 ft.)
SRPE-187-0-C	Weatherable Black Polyethylene	.19/4.75	.24/6.10	.04/1.02	.13/3.18	1.50/38.10	1 (100 ft.)
SRPE-250-0-C	Weatherable Black Polyethylene	.25/6.35	.38/9.53	.05/1.14	.19/4.78	2.00/50.80	1 (100 ft.)
SRPE-375-0-C	Weatherable Black Polyethylene	.38/9.53	.44/11.13	.05/1.32	.31/7.95	3.00/76.20	1 (100 ft.)
SRPE-500-0-C	Weatherable Black Polyethylene	.50/12.70	.56/14.30	.06/1.57	.38/9.53	4.00/101.60	1 (100 ft.)
SRPE-625-0-C	Weatherable Black Polyethylene	.63/15.88	.63/15.88	.06/1.57	.63/15.88	4.50/114.30	1 (100 ft.)
SRPE-750-0-C	Weatherable Black Polyethylene	.63/15.88	.75/19.05	.07/1.65	.75/19.05	5.00/127.00	1 (100 ft.)
SRPE-1000-0-C	Weatherable Black Polyethylene	1.00/25.40	1.11/28.19	.70/17.78	1.0/25.40	7.00/177.80	1 (100 ft.)
SRNY-187-9-C	Natural Nylon 6.6	.19/4.75	.24/6.10	.03/.64	.13/3.18	1.50/38.10	1 (100 ft.)

Sold in 100-ft. rolls.

Polyethylene

Available in natural and weatherable black.

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

Weatherable Polyethylene

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

Nylon 6.6

Available in natural only.

Offers highest abrasion resistance and rigidity. Self-extinguishing to UL94HB and a UL® Recognized Component.



Fax: 901.252.1354







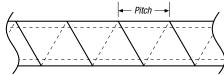
Perfect for protection of bundles from .063" to 7" diameters.

Forward Cut Spiral Wrap

- Install with gaps for greater flexibility or butted together for maximum abrasion resistance, insulation, and rigidity
- Available in three materials
- Also known as right-hand cut or clockwise cut
- Use cutting tool CC120B (page C-57)







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STD. PKG. CAT. NO.	MATERIAL	OUTSIDE Diameter In./MM	PITCH In./MM	NOMINAL WALL THICKNESS IN./MM	MIN./MAX. BUNDLE RANGE IN./MM	UL Flammability	REEL QTY.
SRPE-125F-9-C	Natural Polyethylene	.19/4.75	.24/6.10	.04/1.02	.13-1.50/3.18-80.77	94 HB	1 (100 ft.)
SRPE-187F-9-C	Natural Polyethylene	.19/4.75	.24/6.10	.04/1.02	.13-1.50/3.18-80.77	94 HB	1 (100 ft.)
SRPE-250F-9-C	Natural Polyethylene	.25/6.35	.38/9.53	.05/1.14	.19-2.0/4.78-50.80	94 HB	1 (100 ft.)
SRPE-375F-9-C	Natural Polyethylene	.38/9.53	.44/11.13	.05/1.32	.31-3.0/7.95-76.20	94 HB	1 (100 ft.)
SRPE-500F-9-C	Natural Polyethylene	.50/12.70	.56/14.30	.06/1.57	.38-4.0/9.53-101.60	94 HB	1 (100 ft.)
SRPE-625F-9-C	Natural Polyethylene	.63/15.88	.63/15.88	.06/1.57	.63-4.5/15.88-114.30	94 HB	1 (100 ft.)
SRPE-750F-9-C	Natural Polyethylene	.75/19.05	.75/19.05	.07/1.65	.75-5.0/19.05-127.00	94 HB	1 (100 ft.)
SRPE-1000F-9-C	Natural Polyethylene	1.0/25.40	1.11/28.19	.07/1.78	1.0-7.0/25.40-177.80	94 HB	1 (100 ft.)
SRPE-125F-0-C	Weatherable Black Polyethylene	.19/4.75	.24/6.10	.04/1.02	.13-1.50/3.18-80.77	94 HB	1 (100 ft.)
SRPE-187F-0-C	Weatherable Black Polyethylene	.19/4.75	.24/6.10	.04/1.02	.13-1.50/3.18-80.77	94 HB	1 (100 ft.)
SRPE-250F-0-C	Weatherable Black Polyethylene	.25/6.35	.38/9.53	.05/1.14	.19-2.0/4.78-50.80	94 HB	1 (100 ft.)
SRPE-375F-0-C	Weatherable Black Polyethylene	.38/9.53	.44/11.13	.05/1.32	.31-3.0/7.95-76.20	94 HB	1 (100 ft.)
SRPE-500F-0-C	Weatherable Black Polyethylene	.50/12.70	.56/14.30	.06/1.57	.38-4.0/9.53-101.60	94 HB	1 (100 ft.)
SRPE-625F-0-C	Weatherable Black Polyethylene	.63/15.88	.63/15.88	.06/1.57	.63-4.5/15.88-114.30	94 HB	1 (100 ft.)
SRPE-750F-0-C	Weatherable Black Polyethylene	.75/19.05	.75/19.05	.07/1.65	.75-5.0/19.05-127.00	94 HB	1 (100 ft.)
SRPE-1000F-0-C Sold in 100-ft. rolls.	Weatherable Black Polyethylene	1.0/25.40	1.11/28.19	.07/1.78	1.0-7.0/25.40-177.80	94 HB	1 (100 ft.)

Polyethylene

Available in natural and weatherable black.

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

Weatherable Polyethylene

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

Nylon 6.6

Available in natural only.

Offers highest abrasion resistance and rigidity. Self-extinguishing to UL94HB and a UL® Recognized Component.



800.816.7809 Fax: 901.252.1354

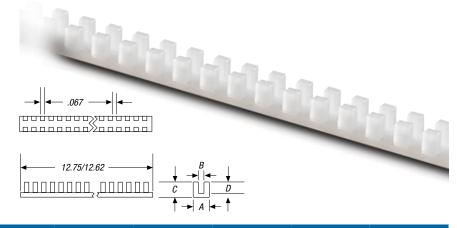




Suitable for round hole or odd-shape applications!

Molded Grommeting

- Used to protect panel edges and knockouts where the chafing of passing wires is a concern
- Strip length 12¾"



STD. PKG. CAT. NO.	MATERIAL	A IN./MM	B IN./MM	C IN./MM	D IN./MM	FOR PANEL THICKNESS IN./MM	STD. PKG.
GSNY-052-9-C	Natural Nylon 6.6	.15/3.81	.06/1.42	.16/3.94	.10/2.54	.02052/.38-1.32	100
GSNY-085-9-C	Natural Nylon 6.6	.18/4.45	.09/2.29	.16/3.94	.10/2.54	.05085/1.35-2.16	100
GSNY-128-9-C	Natural Nylon 6.6	.22/5.59	.13/3.33	.16/3.94	.10/2.54	.09128/2.18-3.25	100
GSNY-192-9-C	Natural Nylon 6.6	.36/8.26	.20/4.95	.23/5.84	.16/4.06	.19192/3.25-4.88	100

High-carbon, Teflon® coated steel blade!

Cutting Tool

Use our cutting tool for all your spiral wrap, plastic pipe, raceway, PVC conduit and tubing cutting needs up to 11/4" I.D.

- · Contoured handle resists tube crushing
- Produces no "sawdust" no need to debur
- · Lightweight, low-profile and no exposed blade when stored
- Can be used to cut Carlon® Electrical Non-Metallic Tubing (ENT)

CAT. NO.	DESCRIPTION
CC120B	Cutting Tool



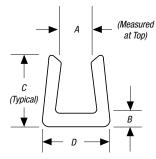




Thomas@Betts

Line panel edges and knockouts! Extruded Grommeting

- Used to line panel edges and knockouts where the chafing of passing wires is a concern
 - Available in 8 stock sizes in 100-ft. lengths for panels from .040" (1.02mm) to .250" (6.35mm) thick
 - A variety of stocked materials to cover a wide range of applications



Note: Min. bend radius is 11/4".

		Α	В	С	D		
STD. PKG. CAT. NO.	MATERIAL	MAX. PANEL THICKNESS IN./MM	GROMMETING THICKNESS IN./MM	GROMMETING HEIGHT IN./MM	GROMMETING WIDTH IN./MM	UL Flammability	REEL QTY.
GRNY-040-9-C	Natural Nylon	.04/1.02	.04/1.02	.19/4.83	.13/3.18	94 V-2	1 (100 ft.)
GRNY-052-9-C	Natural Nylon	.05/1.32	.04/1.02	.19/4.83	.13/3.18	94 V-2	1 (100 ft.)
GRNY-062-9-C	Natural Nylon	.06/1.57	.05/1.14	.20/5.08	.17/4.32	94 V-2	1 (100 ft.)
GRNY-085-9-C	Natural Nylon	.09/2.16	.05/1.14	.20/5.08	.17/4.32	94 V-2	1 (100 ft.)
GRNY-100-9-C	Natural Nylon	.10/2.54	.05/1.14	.22/5.89	.21/5.33	94 V-2	1 (100 ft.)
GRNY-125-9-C	Natural Nylon	.13/3.18	.05/1.27	.22/5.89	.21/5.21	94 V-2	1 (100 ft.)
GRNY-187-9-C	Natural Nylon	.19/4.75	.05/1.27	.27/6.86	.28/6.99	94 V-2	1 (100 ft.)
GRNY-250-9-C	Natural Nylon	.25/6.35	.05/1.27	.28/7.11	.379/.40	94 V-2	1 (100 ft.)
GRNY-040-0-C	Black Nylon	.04/1.02	.04/1.02	.19/4.83	.13/3.18	94 V-2	1 (100 ft.)
GRNY-052-0-C	Black Nylon	.05/1.32	.04/1.02	.19/4.83	.13/3.18	94 V-2	1 (100 ft.)
GRNY-062-0-C	Black Nylon	.06/1.57	.05/1.14	.20/5.08	.17/4.32	94 V-2	1 (100 ft.)
GRNY-085-0-C	Black Nylon	.09/2.16	.05/1.14	.20/5.08	.17/4.32	94 V-2	1 (100 ft.)
GRNY-100-0-C	Black Nylon	.10/2.54	.05/1.14	.22/5.89	.21/5.33	94 V-2	1 (100 ft.)
GRNY-125-0-C	Black Nylon	.13/3.18	.05/1.27	.22/5.89	.21/5.21	94 V-2	1 (100 ft.)
GRNY-187-0-C	Black Nylon	.19/4.75	.05/1.27	.27/6.86	.28/6.99	94 V-2	1 (100 ft.)
GRNY-250-0-C	Black Nylon	.25/6.35	.05/1.27	.28/7.11	.379/.40	94 V-2	1 (100 ft.)
GRPE-040-9-C	Natural Polyethylene	.04/1.02	.04/1.02	.19/4.83	.13/3.18	94 HB	1 (100 ft.)
GRPE-052-9-C	Natural Polyethylene	.05/1.32	.04/1.02	.19/4.83	.13/3.18	94 HB	1 (100 ft.)
GRPE-062-9-C	Natural Polyethylene	.06/1.57	.05/1.14	.20/5.08	.17/4.32	94 HB	1 (100 ft.)
GRPE-085-9-C	Natural Polyethylene	.09/2.16	.05/1.14	.20/5.08	.17/4.32	94 HB	1 (100 ft.)
GRPE-100-9-C	Natural Polyethylene	.10/2.54	.05/1.14	.22/5.89	.21/5.33	94 HB	1 (100 ft.)
GRPE-125-9-C	Natural Polyethylene	.13/3.18	.05/1.27	.22/5.89	.21/5.21	94 HB	1 (100 ft.)
GRPE-187-9-C	Natural Polyethylene	.19/4.75	.05/1.27	.27/6.86	.28/6.99	94 HB	1 (100 ft.)
GRPE-250-9-C	Natural Polyethylene	.25/6.35	.05/1.27	.28/7.11	.379/.40	94 HB	1 (100 ft.)





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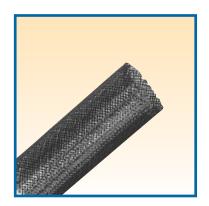


Available in handy mini spools or bulk reels! **Braided Expandable Wire Protection Sleeving**

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

Available in:

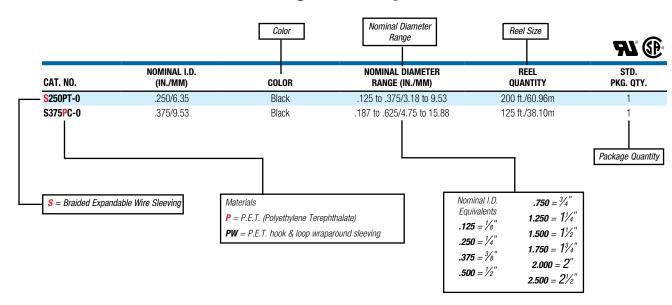
- · Handy mini spools or bulk reels
- Eight sizes from 1/8" (3.18mm) to 21/2" (63.5mm) nominal I.D. size
- Solid or wraparound hook and loop braided expandable wire sleeving
- Meets UL94V-1
- Meets Federal Motor Vehicle Standard No. FMV SS 302



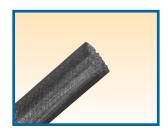
Polyethylene Terephthalate (P.E.T.)

A black 0.010" (.25mm) polyester monofilament material designed for indoor and outdoor applications. It's rated for continuous operating temp. -103° F to 257° F (-75° C to 125° C).

Catalog Number System







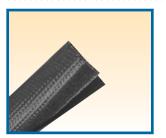
Portable convenience!

PET Braided Expandable Wire Sleeving — Mini Spool



NOMINAL I.D. IN./MM	COLOR	NOMINAL DIAMETER RANGE IN./MM	SPOOL Quantity	STD. PKG. QTY.
.25/6.35	Black	.13 to .38/3.18 to 9.53	200 ft./60.96m	1
.38/9.53	Black	.19 to .63/4.75 to 15.88	125 ft./38.10m	1
.50/12.70	Black	.25 to .75/6.35 to 19.05	100 ft./30.48m	1
.75/19.05	Black	.50 to 1.25/12.70 to 31.75	100 ft./30.48m	1
1.25/31.75	Black	.75 to 1.75/19.05 to 44.45	50 ft./15.24m	1
	IN./MM .25/6.35 .38/9.53 .50/12.70 .75/19.05	IN./MM COLOR .25/6.35 Black .38/9.53 Black .50/12.70 Black .75/19.05 Black	IN./MM COLOR RANGE IN./MM .25/6.35 Black .13 to .38/3.18 to 9.53 .38/9.53 Black .19 to .63/4.75 to 15.88 .50/12.70 Black .25 to .75/6.35 to 19.05 .75/19.05 Black .50 to 1.25/12.70 to 31.75	IN./MM COLOR RANGE IN./MM QUANTITY .25/6.35 Black .13 to .38/3.18 to 9.53 200 ft./60.96m .38/9.53 Black .19 to .63/4.75 to 15.88 125 ft./38.10m .50/12.70 Black .25 to .75/6.35 to 19.05 100 ft./30.48m .75/19.05 Black .50 to 1.25/12.70 to 31.75 100 ft./30.48m

Note: Order by spool, not per foot.



No tools required to close the sleeving

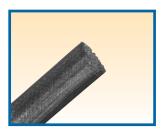
 Hook and loop material is made of 100% nylon

Enables for easy wrapping of existing wire harnesses and cables!

PET Hook and Loop, Wraparound Sleeving — Mini Spool



STD PKG. CAT. NO.	NOMINAL I.D. IN./MM	COLOR	NOMINAL DIAMETER RANGE IN./MM	SPOOL Quantity	STD. PKG. QTY.
S500PWL-0	.50/12.70	Black	.25 to .75/6.35 to 19.05	50 ft./15.24m	1
S750PWL-0	.75/19.05	Black	.50 to 1.25/12.70 to 31.75	50 ft./15.24m	1
S1250PWL-0	1.25/31.75	Black	.75 to 1.75/19.05 to 44.45	50 ft./15.24m	1
S2000PWL-0	2.00/50.80	Black	1.50 to 3.50/38.10 to 88.90	50 ft./15.24m	1
Note: Order by spor	ol. not per foot.				



Buy in bulk and save!

PET Braided Expandable Wire Sleeving — Bulk Reel



BULK PKG. CAT. NO.	NOMINAL I.D. IN./MM	COLOR	NOMINAL DIAMETER Range In./MM	REEL Quantity	BULK PKG. QTY.
S125PM-0	.125/3.18	Black	.09 to .250/2.39 to 6.35	1,000 ft./304.80m	1
S250PM-0	.25/6.35	Black	.125 to .375/3.18 to 9.53	1,000 ft./304.80m	1
S500PD-0	.50/12.70	Black	.25 to .75/6.35 to 19.05	500 ft./152.40m	1
S750PK-0	.75/19.05	Black	.50 to 1.25/12.70 to 31.75	250 ft./76.20m	1
S1250PK-0	1.25/31.75	Black	.75 to 1.75/19.05 to 44.45	250 ft./76.20m	1
S1500PT-0	1.50/38.10	Black	1.00 to 2.50/25.40 to 63.50	200 ft./60.96m	1
S1750PT-0	1.75/44.45	Black	1.25 to 2.75/31.75 to 59.85	200 ft./60.96m	1
S2000PT-0	2.00/50.80	Black	1.50 to 3.50/38.10 to 88.90	200 ft./60.96m	1
S2500PT-0	2.50/63.50	Black	1.75 to 4.50/44.45 to 114.30	200 ft./60.96m	1
M-1- 0 1 1					

Note: Order by reel, not per foot.



The right tool for the job!

Sleeving End Cutter/Sealer Tool

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



STD. PKG.		
CAT. NO.	DESCRIPTION	STD PKG.
WTBM	Benchmount End Cutter/Sealer Tool, 110 VAC	1



United States

Tel: 901.252.8000 800.816.7809 Fax: 901.252.1354 Technical Services
Tel: 888.862.3289







Catamount®

Catamount® General-Purpose Ties & Accessories



In this section...



Catamount® General-Purpose Ties & Accessories

Twist Tail® Cable Ties	C-62
General-Purpose Cable Ties and Accessories	C-63-C-66





Twist Tail® Cable Ties

Tail twists right off — no tools needed!

Catamount® Twist Tail® Cable Tie



- Redesigned using impact-modified nylon to increase both flexibility and wearability
- Unique and improved design for quick, easy no-tool installation
- After installing, remove excess tail with a simple "bend, bend again and twist" motion
- Tail breaks off neat and clean no sharp edges to damage hands or cables
- Ideal for limited-space installations where you can't fit a cut-off tool
- Suitable for light-duty cable tie applications



For fast and easy installation, you can't beat the Catamount® Twist Tail® Cable Tie. After you secure the Twist Tail® tie around a bundle of cables, simply grasp the excess tail between your thumb and forefinger, bend, bend in the other direction and twist. The tail breaks right off, leaving no sharp edges to scratch your hands or your cables. The Twist Tail® cable tie makes tail removal easy with its unique design but still provides a full 30 lbs. minimum loop tensile strength — perfect for any general-purpose cable tie application.

CAT. NO.	LENGTH (IN.)	WIDTH (IN.)	MIN. TENSILE STRENGTH (LBS.)	COLOR	STD. QTY.
TT-7-30-9-L	7	.187	30	Natural	50
TT-7-30-0-L	7	.187	30	UV Black	50
TT-11-30-9-L	11	.187	30	Natural	50
TT-11-30-0-L	11	.187	30	UV Black	50
TT-14-30-9-L	14	.187	30	Natural	50
TT-14-30-0-L	14	.187	30	UV Black	50













Tel: 901.252.8000 800.816.7809 Fax: 901.252.1354









Catamount® Ties fit the needs of general-purpose fastening. Installers quickly discover that Catamount® products offer durable and value-priced cable bundling for a variety of commercial and residential construction applications. Catamount® Ties are offered in a wide range of sizes, styles and colors and meet the requirements for most fastening projects. Catamount® Cable Ties are UL Recognized per File #E-4905.

Miniature — Series 18

					714
CAT. NO.	LENGTH (IN.)	WIDTH (IN.)	MAX. BUNDLE DIA. (IN.)	COLOR	STD. QTY.
L-4-18-9-C	4.0	.100	5/8	Natural	100
L-4-18-9-M	4.0	.100	5/8	Natural	1,000
L-4-18-0-C	4.0	.100	5/8	UV Black	100
L-4-18-0-M	4.0	.100	5/8	UV Black	1,000
L-6-18-9-M	6.4	.100	11/2	Natural	1,000
L-8-18-9-C	8.0	.100	2	Natural	100
L-8-18-9-M	8.0	.100	2	Natural	1,000
L-8-18-0-C	8.0	.100	2	UV Black	100
L-8-18-0-M	8.0	.100	2	UV Black	1,000



Heavy-Duty

CAT. NO.	LENGTH (IN.)	WIDTH (IN.)	MAX. BUNDLE DIA. (IN.)	COLOR	STD. QTY.
Series 120		. ,	. ,		
L-8-120-0-C	8.0	.300	2	UV Black	100
L-11-120-9-C	11.1	.300	3	Natural	100
L-11-120-0-C	11.1	.300	3	UV Black	100
L-14-120-9-C	14.2	.300	4	Natural	100
L-14-120-0-C	14.2	.300	4	UV Black	100
L-18-120-9-L	18.0	.300	47/8	Natural	50
L-18-120-0-L	18.0	.300	47/8	UV Black	50
L-24-120-9-Q	24.2	.300	7	Natural	25
L-24-120-9-L	24.2	.300	7	Natural	50
L-24-120-0-Q	24.2	.300	7	UV Black	25
L-24-120-0-L	24.2	.300	7	UV Black	50
L-24-120-2-L	24.2	.300	7	Red	50
L-28-120-9-L	28.0	.300	8	Natural	50
L-28-120-0-L	28.0	.300	8	UV Black	50
Series 175					
L-24-175-9-L	24.0	.345	7.2	Natural	50
L-24-175-0-L	24.0	.345	7.2	UV Black	50
L-36-175-9-L	36.0	.345	10¾	Natural	50
L-36-175-0-L	36.0	.345	10¾	UV Black	50
L-48-175-9-L	48.0	.345	15	Natural	50
L-48-175-8-L	48.0	.345	15	Gray	50
L-48-175-0-L	48.0	.345	15	UV Black	50
Series 250					
L-28-250-0-L	28.0	.345	8	UV Black	50



					<u> 777</u>
CAT. NO.	LENGTH (IN.)	WIDTH (IN.)	MAX. BUNDLE DIA. (IN.)	COLOR	STD. QTY.
L-5-30-9-C	5.6	.130	11/4	Natural	100
L-5-30-9-M	5.6	.130	11/4	Natural	1,000
L-5-30-0-C	5.6	.130	11/4	UV Black	100
L-5-30-0-M	5.6	.130	11/4	UV Black	1,000
L-8-40-9-C	8.5	.140	2	Natural	100
L-8-40-9-M	8.5	.140	2	Natural	1,000
L-8-40-0-C	8.5	.140	2	UV Black	100
L-8-40-0-M	8.5	.140	2	UV Black	1,000
L-11-40-9-C	11.5	.146	3	Natural	100
L-11-40-9-M	11.5	.146	3	Natural	1,000
L-11-40-0-C	11.5	.146	3	UV Black	100
L-11-40-0-M	11.5	.146	3	UV Black	1,000
L-14-40-9-C	14.5	.146	4	Natural	100
L-14-40-9-M	14.5	.146	4	Natural	1,000
L-14-40-0-C	14.5	.146	4	UV Black	100
L-14-40-0-M	14.5	.146	4	UV Black	1,000



For installation tools, see pp. C-46-C-48.

Standard — Series 50

					<u> 47</u>
CAT. NO.	LENGTH (IN.)	WIDTH (IN.)	MAX. BUNDLE DIA. (IN.)	COLOR	STD. QTY.
L-7-50-9-C	7.5	.187	13/4	Natural	100
L-7-50-9-M	7.5	.187	13/4	Natural	1,000
L-7-50-0-C	7.5	.187	13/4	UV Black	100
L-7-50-0-M	7.5	.187	13/4	UV Black	1,000
L-11-50-9-C	11.1	.187	3	Natural	100
L-11-50-9-D	11.1	.187	3	Natural	500
L-11-50-0-C	11.1	.187	3	UV Black	100
L-11-50-0-D	11.1	.187	3	UV Black	500
L-14-50-9-C	14.1	.187	4	Natural	100
L-14-50-9-D	14.1	.187	4	Natural	500
L-14-50-0-C	14.1	.187	4	UV Black	100
L-14-50-0-D	14.1	.187	4	UV Black	500





Sample Catalog Order Color Length Tensile Strength Quantity 4" Length, 18-lb. Tensile Strength, Releasable Tie, Natural Color, 100-Pack Quantity Color 0 - Black (UV Resistant) 9 - Natural 8 - Gray **Pack Quantity** L = 50D = 500C = 100M = 1,000**Style** Releasable MH = Mounting Head



United States Tel: 901.252.8000

800.816.7809 Fax: 901.252.1354

Technical Services Tel: 888.862.3289

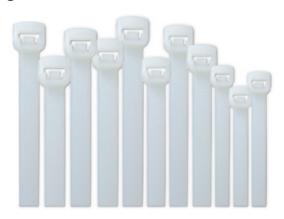






Catamount® Cable Tie Assortment Packages

- Natural nylon or black weather-resistant nylon
- · Reusable jar
- · Easily merchandised
- · Great value





CAT. NO.	LENGTH (IN.)	WIDTH	MAX. BUNDLE (IN.)	TENSILE STRENGTH	MATERIAL	JAR QTY
90650-I	4	.100	5/8	18#		300
	7.5	.187	1¾	50#	Natural Nylon	300
	11.1	.187	3	50#		50
90650-IUV	4	.100	5/8	18#	Black Weather-	300
	7.5	.187	13/4	50#	Resistant	300
	11.1	.187	3	50#	Nylon	50

Mounting Head Ties



CAT. NO.	LENGTH (IN.)	WIDTH (IN.)	MAX BUNDLE DIA. (IN.)	MIN. LOOP TENSILE TENSILE	MOUNTING HEAD SCREW SIZE	COLOR	STD. QTY.
L-7-50MH-9-C	7.5	.185	11/4	30	No. 10	Natural	100
L-7-50MH-9-M	7.5	.185	11/4	30	No. 10	Natural	1,000
L-7-50MH-0-C	7.5	.185	1¾	30	No. 10	UV Black	100
L-7-50MH-0-M	7.5	.185	1¾	30	No. 10	UV Black	1,000





1-800-453-1692 www.aboveboardelectronics.com





Cable Tie Mounting Bases

- ¾" and 1" mounts for use with 18# through 50# tensile cable ties
- · Supplied on rubber-based adhesive
- Available in 6.6 natural nylon and 6.6 black weather-resistant nylon
- UL94V-2 flammability (clip)

Note: See product expiration date on package.
Periodically check product for adhesion and replace
as needed. Product is for wire management only
and is not intended for use as a primary support
of wire, cable, etc.



CAT. NO.	MOUNT METHOD	COLOR	PKG. QTY.
3/4" x 3/4" Sizes			
MPNY-750-9-C	Synthetic Rubber Adhesive	Natural	100
MPNY-750-9-D	Synthetic Rubber Adhesive	UV Black	500
1" x 1" Sizes			
MPNY-1000-9-C	Synthetic Rubber Adhesive	Natural	100
MPNY-1000-0-C	Synthetic Rubber Adhesive	UV Black	100
F	O. H.I. Tim		

For use with 18-50 lb. Cable Ties

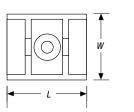
- Mounting Surface should be cleaned with alcohol based (IPA) cleaner before application
- Allow 15 minutes setup for maximum performance

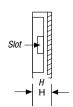
Accepts cable ties up to 50-lb. tensile strength!

Adhesive Mounting Cradle

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







STD. PKG. CAT. NO.	BULK PKG. Cat. No.	MATERIAL	H HEIGHT IN./MM	L Length In./MM	W WIDTH IN./MM	SLOT HEIGHT IN./MM	SLOT WIDTH In./MM	MOUNT METHOD	STD. PKG. QTY.	BULK PKG. QTY.
MCNY-1250-9-C	MCNY-1250-9-D	Natural Nylon 6.6	.285/7.24	1.250/31.75	1.000/25.4	.090/2.29	.300/7.62	SRA Adhesive*	100	500

*Synthetic Rubber Adhesive

Note: See product expiration date on package. Periodically check product for adhesion and replace as needed.

Product is for wire management only and is not intended for use as a primary support of wire, cable, etc.





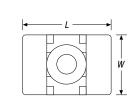
1-800-453-1692

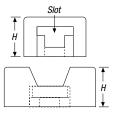


Two-Way Screw Mount

- SMNY-000 accepts 18 lb. (80N) tensile strength cable ties (miniature)
- SMNY-001 accepts up to 50 lb. (222N) tensile strength cable ties







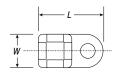
BULK PKG. Cat. No.	MATERIAL	H HEIGHT IN./MM	L Length In./MM	W WIDTH IN./MM	SLOT HEIGHT In./MM	SLOT WIDTH In./MM	MOUNT METHOD	BULK PKG. QTY.
SMNY-000-9-D	Natural Nylon 6.6	.27/6.86	.57/14.48	.34/8.64	.07/1.78	.12/3.10	#4 Screw	500
SMNY-001-9-D	Natural Nylon 6.6	.25/7.11	.60/15.24	.38/9.77	.06/1.52	.20/5.68	#6 or #8 screw	500

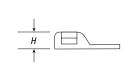
SMNY series for use in temperatures ranging from -40° F to 221° F (-40° C to 105° C).

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

Four-Way Mount

- · Mount with #6 or #8 screws
- · Available in 6.6 natural nylon







· Natural nylon color.

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

STRONG — up to 50-lb. tensile strength!

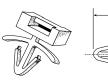
Push Mounts

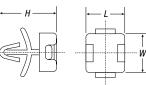
PMNY-185

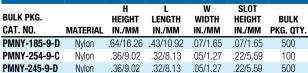
- · Versatile push mount for cable ties to 50-lb. tensile strength
- For use in .187"/.192" mounting hole for panel thickness .030" to .080"

PMNY-245

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

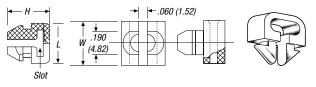






Natural nylon color.

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



Snap Mounts

- For panel thicknesses from .060" to .150" to hold separate pieces of material together
- For MSNY-166-0-M used with W4 or N4 Series Cable Clamps, allowable panel thickness is .030" to .050"
- For MSNY-187-0-M used with W6 or N6 Series Cable Clamps, allowable panel thickness is .030" to .050"











CAT. NO.	MATERIAL	A IN./MM	B IN./MM	C IN./MM	D IN./MM	BULK PKG QTY.
MSNY-166-0-M	UV Black Nylon	.49/12.45	.31/7.87	.28/7.11	.18/4.57	1,000
MSNY-187-0-M	LIV Black Nylon	625/15.87	343/8 73	281/7 14	210/5.33	1 000



United States

Tel: 901.252.8000 800.816.7809 Fax: 901.252.1354 **Technical Services**

Tel: 888.862.3289







Ty-Duct Carlon



In this section...



Wiring Duct & Wiring Trough

Ty-Duct® Wiring Duct	C-68-C-77
Wiring Duct Tools and Accessories	C-78-C-81
Wiring Duct Technical Information	C-82-C-86
Carlon® Wiring Trough and Accessories	C-87-C-89
Wiring Trough Technical Information	C-90-C-92





Ty-Duct[®] Wiring Duct

Ty-Duct[®] — The versatile configurations you need for routing and concealing wiring!

Thomas & Betts' innovative new Ty-Duct products offer a total solution for routing and concealing wiring in control panels. Many different sizes are available to accommodate anything from the smallest wallmount panel to the larger integrated systems!

Here are some of the impressive features incorporated into our wiring duct solutions.

Ty-Duct® Features



- Available in Wide and Narrow Slot versions to meet your capacity and flexibility needs
- Widths from .75" to 6" and depths from 1" to 5"
- Complete selection of accessories and tools for installation
- Lead-free construction
- Lightweight halogen-free material available for Wide Slot Wiring Duct





Ty-Duct® Certifications

- UL® Recognized Continuous-Use Temperature 122° F (50° C) for Standard PVC Material 203° F (95° C) for Halogen-Free Material
- UL® 94 Flammability —
 Rating of V-0 for Standard PVC Material
 Rating of V-1 for Halogen-Free Material
- Conforms with NFPA 79-2011 Section 13.3.1 Requirement for Flame-Retardant Material
- · CE compliant for European shipping
- CSA Certified
- RoHS Certified







Embossed holes on ½" and wider sizes allow the installation of universal mounting clips even after duct has been riveted to the panel



United States

Tel: 901.252.8000 800.816.7809 Fax: 901.252.1354 **Technical Services**

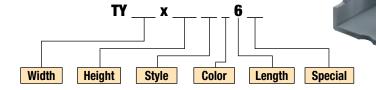
Tel: 888.862.3289



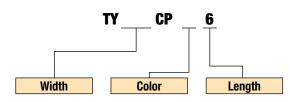
Ordering the Ty-Duct° products you need is easy!

Select the appropriate Ty-Duct[®] solutions for your application.

For Ty-Duct® Wiring Duct:



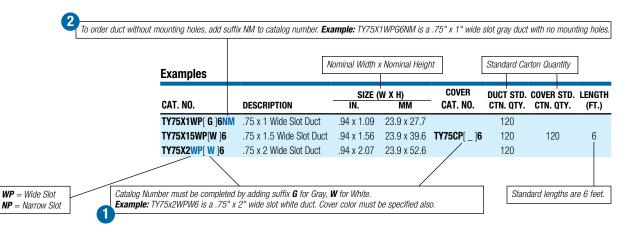
For Ty-Duct® Covers:



[_] = space for color identifier:

G = Gray

W = White



Note: See product expiration date on packages with adhesive. Periodically check product for adhesion and replace as needed. Product is for wire management only and is not intended for use as a primary support of wire, cable, etc.



United States

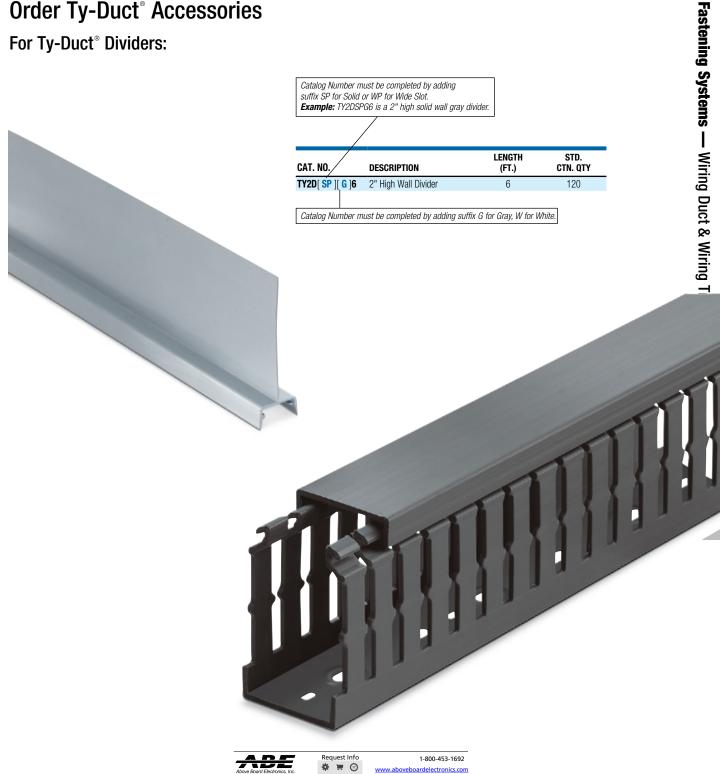
Tel: 901.252.8000 800.816.7809 Fax: 901.252.1354 Technical Services
Tel: 888.862.3289





Order Ty-Duct® Accessories

For Ty-Duct® Dividers:

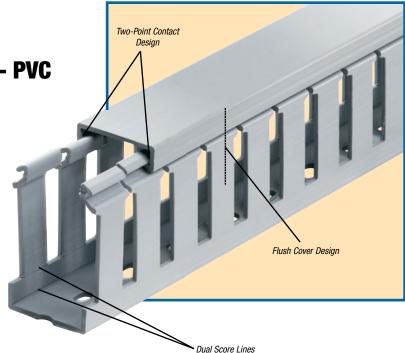


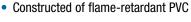
800.816.7809 Fax: 901.252.1354

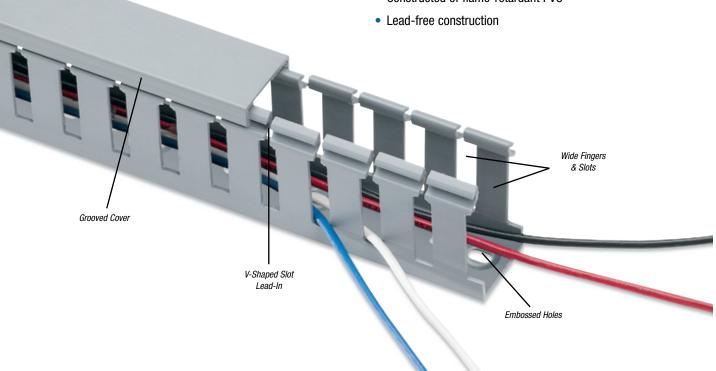
Greater sidewall rigidity with increased versatility!

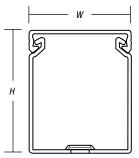
Wide Slot Wiring Duct — PVC

- · Wide fingers and slots increase rigidity and enable insertion of bundles
- Non-slip cover does not slide easily and resists vibration
- Rounded edges keep hands and wires free of abrasion
- V-shaped slot lead-in enables easier and faster wire installation
- Dual score lines are designed to yield clean breakoffs at the base of the slot and the duct
- Restricted slot design makes sure that wires are held with or without the cover inserted
- Cover attaches flush with sidewall for finished look and increased wire capacity
- Versatile North American and DIN Standard mounting holes enables same duct for multiple applications

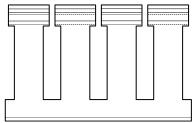










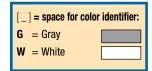


Side View without Cover

For a complete listing of Wide Slot mounting and dimensional details, see page C-84.



		SIZE	(W X H)	COVER	DUCT STD.	COVER STD.	LENGTH
CAT. NO.*	DESCRIPTION	IN.	ММ	CAT. NO.*	CTN. QTY.	CTN. QTY.	(FT.)
TY75X15WP[_]6	.75" x 1.5"	.94 x 1.70	23.9 x 43.2	TY75CP[_]6	120	120	6
TY75X2WP[_]6	.75" x 2"	.94 x 2.19	23.9 x 55.6		120		
TY1X1WP[_]6	1" x 1"	1.25 x 1.24	31.8 x 31.5		120		
TY1X15WP[_]6	1" x 1.5"	1.25 x 1.70	31.8 x 43.2		120		
TY1X2WP[_]6	1" x 2"	1.25 x 2.19	31.8 x 55.6	TY1CP[_]6	120	120	6
TY1X3WP[_]6	1" x 3"	1.25 x 3.14	31.8 x 79.8		120		
TY1X4WP[_]6	1" x 4"	1.25 x 4.46	31.8 x 113.3		60		
TY15X15WP[_]6	1.5" x 1.5"	1.75 x 1.70	44.5 x 43.2		120		
TY15X2WP[_]6	1.5" x 2"	1.75 x 2.19	44.5 x 55.6	TY15CP[_]6	120	120	6
TY15X3WP[_]6	1.5" x 3"	1.75 x 3.14	44.5 x 79.8		120		
TY15X4WP[_]6	1.5" x 4"	1.75 x 4.46	44.5 x 113.3		60		
TY2X1WP[_]6	2" x 1"	2.25 x 1.24	57.2 x 31.5		120		
TY2X15WP[_]6	2" x 1.5"	2.25 x 1.70	57.2 x 43.2		120		
TY2X2WP[_]6	2" x 2"	2.25 x 2.19	57.2 x 55.6	TY2CP[_]6	120	120	6
TY2X3WP[_]6	2" x 3"	2.25 x 3.14	57.2 x 79.8		60		
TY2X4WP[_]6	2" x 4"	2.25 x 4.46	57.2 x 113.3		60		
TY2X5WP[_]6	2" x 5"	2.25 x 5.15	57.2 x 130.8		60		
TY25X2WP[_]6	2.5" x 2"	2.75 x 2.19	69.9 x 55.6		120		
TY25X3WP[_]6	2.5" x 3"	2.75 x 3.14	69.9 x 79.8	TY25CP[_]6	60	120	6
TY25X4WP[_]6	2.5" x 4"	2.75 x 4.46	69.9 x 113.3		60		
TY3X1WP[_]6	3" x 1"	3.25 x 1.24	82.6 x 31.5		120		
TY3X2WP[_]6	3" x 2"	3.25 x 2.19	82.6 x 55.6		60		
TY3X3WP[_]6	3" x 3"	3.25 x 3.14	82.6 x 79.8	TY3CP[_]6	60	120	6
TY3X4WP[_]6	3" x 4"	3.25 x 4.46	82.6 x 113.3		60		
TY3X5WP[_]6	3" x 5"	3.25 x 5.15	82.6 x 130.8		60		
TY4X3WP[_]6	4" x 3"	4.25 x 3.14	108.0 x 79.8	TY4CP[_]6	60	120	6
TY4X4WP[_]6	4" x 4"	4.25 x 4.46	108.0 x 113.3		30		
TY4X5WP[_]6	4" x 5"	4.25 x 5.15	108.0 x 130.8		30		
TY6X4WP[_]6	6" x 4"	6.25 x 4.46	158.8 x 113.3	TY6CP[_]6	30	60	6



^{*} Catalog Number must be completed by adding suffix G for Gray, W for White. **Example:** TY75X1WPG6 is a .75" x 1" wide slot gray duct.

To order duct without mounting holes, add suffix NM to catalog number.

Example: TY75X1WPG6NM is a .75" x 1" wide slot gray duct with no mounting holes.

PVC duct is UL® Recognized N, CSA Certified and CE Compliant.







Thomas@Betts

Designed to fit the spacing of high-density terminal blocks!

Narrow Slot Wiring Duct

Smaller, higher number of fingers for more concise harnessing

· Non-slip cover does not slide easily and resists vibration

 Rounded edges keep hands and wires free of abrasion

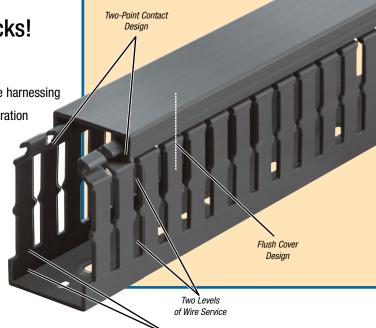
 V-shaped slot lead-in enables easier and faster wire installation

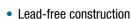
 Restricted slot design makes sure that wires are held with or without the cover inserted

 Cover attaches flush with sidewall for finished look and increased wire capacity

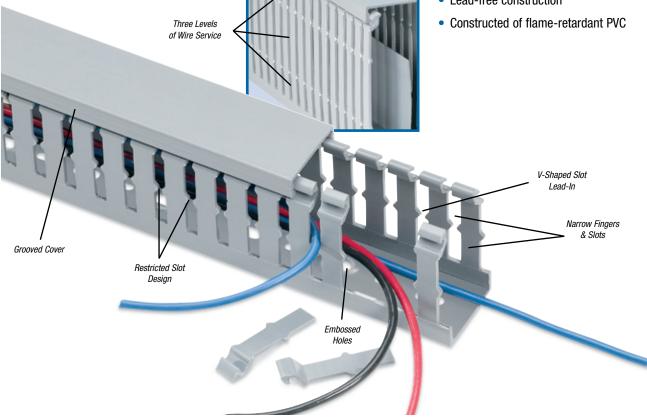
 Versatile North American and DIN Standard mounting holes enable same duct for multiple applications

 Dual score lines are designed to yield clean breakoffs at the base of the slot and the duct

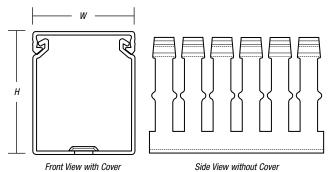




Dual Score Lines



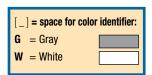
Fax: 901.252.1354



For a complete listing of Narrow Slot mounting and dimensional details, see **page C-85**.



		SIZE	(W X H)				
CAT. NO.*	DESCRIPTION	IN.	ММ	- COVER CAT. NO.*	DUCT STD. CTN. QTY.	COVER STD. CTN. QTY.	LENGTH (FT.)
TY75X15NP[_]6	.75" x 1.5"	.94 x 1.70	23.9 x 43.2	TY75CP[_]6	120	120	6
TY1X1NP[_]6	1" x 1"	1.25 x 1.24	31.8 x 31.5		120		
TY1X15NP[_]6	1" x 1.5"	1.25 x 1.70	31.8 x 43.2		120		
TY1X2NP[_]6	1" x 2"	1.25 x 2.19	31.8 x 55.6	TY1CP[_]6	120	120	6
TY1X3NP[_]6	1" x 3"	1.25 x 3.14	31.8 x 79.8		120		
TY1X4NP[_]6	1" x 4"	1.25 x 4.46	31.8 x 113.3		60		
TY15X1NP[_]6	1.5" x 1"	1.75 x 1.24	44.5 x 31.5		120		
TY15X15NP[_]6	1.5" x 1.5"	1.75 x 1.70	44.5 x 43.2		120		
TY15X2NP[_]6	1.5" x 2"	1.75 x 2.19	44.5 x 55.6	TY15CP[_]6	120	120	6
TY15X3NP[_]6	1.5" x 3"	1.75 x 3.14	44.5 x 79.8		120		
TY15X4NP[_]6	1.5" x 4"	1.75 x 4.46	44.5 x 113.3		60		
TY2X1NP[_]6	2" x 1"	2.25 x 1.24	57.2 x 31.5		120		
TY2X15NP[_]6	2" x 1.5"	2.25 x 1.70	57.2 x 43.2		120		
TY2X2NP[_]6	2" x 2"	2.25 x 2.19	57.2 x 55.6	TY2CP[_]6	120	120	6
TY2X3NP[_]6	2" x 3"	2.25 x 3.14	57.2 x 79.8		60		
TY2X4NP[_]6	2" x 4"	2.25 x 4.46	57.2 x 113.3		60		
TY2X5NP[_]6	2" x 5"	2.25 x 5.15	57.2 x 130.8		60		
TY25X2NP[_]6	2.5" x 2"	2.75 x 2.19	69.9 x 55.6		120		
TY25X3NP[_]6	2.5" x 3"	2.75 x 3.14	69.9 x 79.8	TY25CP[_]6	60	120	6
TY25X4NP[_]6	2.5" x 4"	2.75 x 4.46	69.9 x 113.3		60		
TY3X1NP[_]6	3" x 1"	3.25 x 1.24	82.6 x 31.5		120		
TY3X2NP[_]6	3" x 2"	3.25 x 2.19	82.6 x 55.6		60		
TY3X3NP[_]6	3" x 3"	3.25 x 3.14	82.6 x 79.8	TY3CP[_]6	60	120	6
TY3X4NP[_]6	3" x 4"	3.25 x 4.46	82.6 x 113.3		60		
TY3X5NP[_]6	3" x 5"	3.25 x 5.15	82.6 x 130.8		60		
TY4X2NP[_]6	4" x 2"	4.25 x 2.19	108.0 x 55.6		60		
TY4X3NP[_]6	4" x 3"	4.25 x 3.14	108.0 x 79.8	TY4CP[_]6	60	120	6
TY4X4NP[_]6	4" x 4"	4.25 x 4.46	108.0 x 113.3		30		
TY4X5NP[_]6	4" x 5"	4.25 x 5.15	108.0 x 130.8		30		



* Catalog Number must be completed by adding suffix G for Gray, W for White. **Example:** TY75X15NPB6 is a .75" x 1.5" narrow slot black duct.

To order duct without mounting holes, add suffix NM to catalog number.

Example: TY75X15NPB6NM is a .75" x 1.5" narrow slot black duct with no mounting holes.

PVC duct is UL Recognized **91**, CSA Certified and CE Compliant.



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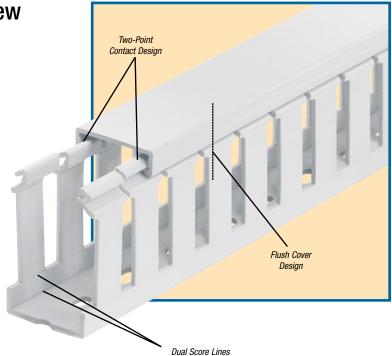




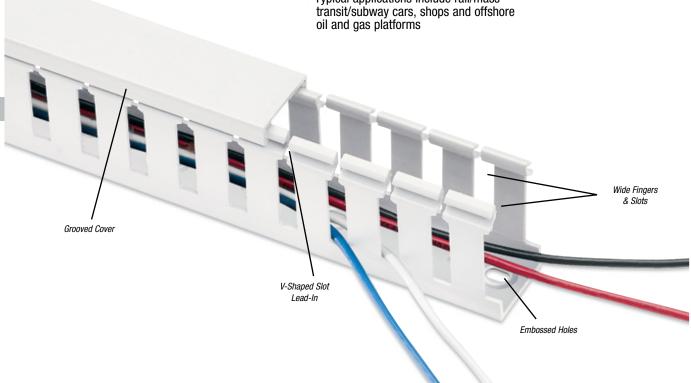
Perfect for passenger or crew areas where smoke toxicity is a concern!

Halogen-Free Wide Slot Wiring Duct

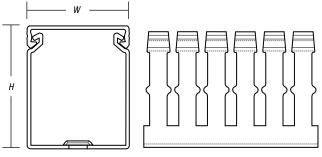
- Halogen-free construction RoHS Compliant
- · Higher temperature rating than standard PVC material (203° F/95° C)
- UL94V-1 flammability rating
- · Wide fingers and slots increase rigidity and enable for insertion of bundles
- Non-slip cover does not slide easily and resists vibration
- Dual score lines are designed to yield clean breakoffs at the base of the slot and the duct
- V-shaped slot lead-in enables easier and faster wire installation



- Light weight
- Typical applications include rail/mass



Fax: 901.252.1354



For a complete listing of Solid Wall mounting and dimensional details, see page C-84.

Front View with Cover

Side View without Cover



		SIZE	(W X H)	COVER	DUCT STD	COVER STD.	LENGTH
CAT. NO.	DESCRIPTION	IN.	ММ	CAT. NO.	CTN. QTY.	CTN. QTY.	(FT.)
TY1X1WHW6	1" x 1"	1.25 x 1.24	31.8 x 31.5		120		
TY1X15WHW6	1" x 1.5"	1.25 x 1.70	31.8 x 43.2		120		
TY1X2WHW6	1" x 2"	1.25 x 2.19	31.8 x 55.6	TY1CHW6	120	120	6
TY1X3WHW6	1" x 3"	1.25 x 3.14	31.8 x 79.8		120		
TY1X4WHW6	1" x 4"	1.25 x 4.46	31.8 x 113.3		60		
TY15X15WHW6	1.5" x 1.5"	1.75 x 1.70	44.5 x 43.2		120		
TY15X2WHW6	1.5" x 2"	1.75 x 2.19	44.5 x 55.6	TY15CHW6	120	120	6
TY15X3WHW6	1.5" x 3"	1.75 x 3.14	44.5 x 79.8		120		
TY15X4WHW6	1.5" x 4"	1.75 x 4.46	44.5 x 113.3		60		
TY2X1WHW6	2" x 1"	2.25 x 1.24	57.2 x 31.5		120		
TY2X2WHW6	2" x 2"	2.25 x 2.19	57.2 x 55.6	TY2CHW6	120	120	6
TY2X3WHW6	2" x 3"	2.25 x 3.14	57.2 x 79.8		60		
TY2X4WHW6	2" x 4"	2.25 x 4.46	57.2 x 113.3		60		
TY3X1WHW6	3" x 1"	3.25 x 1.24	82.6 x 31.5		120		
TY3X2WHW6	3" x 2"	3.25 x 2.19	82.6 x 55.6		60		
TY3X3WHW6	3" x 3"	3.25 x 3.14	82.6 x 79.8	TY3CHW6	60	120	6
TY3X4WHW6	3" x 4"	3.25 x 4.46	82.6 x 113.3		60		
TY3X5WHW6	3" x 5"	3.25 x 5.15	82.6 x 130.8		60		
TY4X2WHW6	4" x 2"	4.25 x 2.19	108.0 x 55.6		60		
TY4X3WHW6	4" x 3"	4.25 x 3.14	108.0 x 79.8	TY4CHW6	60	120	6
TY4X4WHW6	4" x 4"	4.25 x 4.46	108.0 x 113.3		30		
TY4X5WHW6	4" x 5"	4.25 x 5.15	108.0 x 130.8		30		

Halogen-Free Wiring Duct Solid Divider Wall

((

CAT. NO.	FITS DUCT TRADE SIZE	STD. CTN. QTY.	LENGTH (FT.)
TY1DSHW6	1" H	120	6
TY1.5DSHW6	1½" H	120	6
TY2DSHW6	2" H	120	6
TY3DSHW6	3" H	1120	6
TY4DSHW6	4" H	120	6
TY5DSHW6	5" H	120	6

W = White

To order duct without mounting holes, add suffix NM to catalog number. **Example:** TY1XWHW6NM is a 1" x 1" wide slot halogen-free white duct with no mounting holes.

Halogen-free (modified PPE) duct is UL® Recognized NI, CSA Certified and meets the JIC requirements.



Technical Services Tel: 888.862.3289



1-800-453-1692

ooveboardelectronics.com





Create multiple channels inside wiring ducts!

Divider Wall

- · Separates high and low voltage to reduce shortages and interference
- Mount inside any Ty-Duct® PVC wiring duct using Universal Mounting Clips
- Solid and Wide Slotted style





CAT. NO.	DESCRIPTION	LENGTH (FT.)	STD. CTN. QTY.
TY1D[_]P[_]6	1" High Wall Divider	6	120
TY1.5D[_]P[_]6	1.5" High Wall Divider	6	120
TY2D[_]P[_]6	2" High Wall Divider	6	120
TY3D[_]P[_]6	3" High Wall Divider	6	120
TY4D[_]P[_]6	4" High Wall Divider	6	120
TY5D[_]P[_]6	5" High Wall Divider	6	120

+Catalog number must be completed first by adding S for Solid divider or W for Wide Finger Slotted divider and then by adding G for Gray, W for White.

Examples: TY2DSPG6 is a 2" high solid wall gray divider. TY2DWPG6 is a 2" high slotted gray divider.

One size fits all!

Universal Mounting Clips

- · Added before or after the duct is in place, without additional hardware
- Twists into place holds securely
- Installs easily using a screwdriver
- Accommodates up to 40 lb. cable ties
- Black polycarbonate
- For ½" and wider wiring duct sizes









CAT. NO.	DESCRIPTION	QTY.
UMC	Universal Fastener Mount	100 pk









Ideal for high-temperature environments! **Mounting Clips**

- · Speeds duct mounting
- Enables duct removal
- · Provides a stand-off between panel and duct to prevent direct heat transfer - ideal for hightemperature environments



CAT. NO.	WIDTH (IN.)	STD. CTN. QTY.
TY1MC	1	100
TY15MC	1.5	100
TY2MC	2	100
TY3MC	3	100

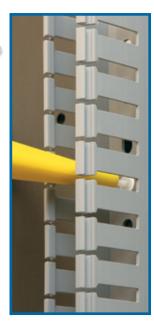
All are .75"D x .35"H and made of Type 316 stainless steel.

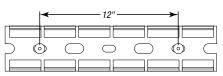
Plastic rivets make mounting ducts easy!

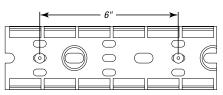
Plastic Rivets

- Fast installation
- Durable and economical
- Used with panel thickness from .030"-.125" thick
- Recommended Panel Hole size: .196" ± .02

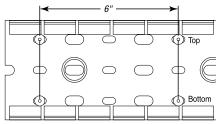
STD. Cat. No.	DESCRIPTION	QTY.
08200C	3/16" Plastic Rivet	100 pk
08200M	3/16" Plastic Rivet	1,000 pk







Minimum mounting rivet distance for ducts 11/2" to 21/2" wide



Minimum mounting rivet distance for ducts greater than 2½' wide. Installed top and bottom.



Thomas@Betts

The wiring duct tools you need for every application!

Features include:

- Duct Cutting Tools for a clean professional finish
- Finger Cutting Tools that make modifications simple
- Notching Tools for duct sidewalls to facilitate tee and corner junctions
- Benchmount Cutting Tools for fast, high volume duct cutting
- Rivet Installation Tools for quick duct mounting

Lightweight and durable!

Duct/ Cover Cutting Tool





- All-steel construction
- Sharp cutting surface
- Replaceable blades available

CAT. NO.	DESCRIPTION
CC125	Handheld Duct Cutter
SX-25TB	Handheld Duct Cutter — Long

Cut duct fingers easily!

Finger Cutting Tool





- Rugged die-cast construction with insulated handles for a comfortable, non-slip grip
- · Removes duct fingers in tight places
- · Works with all slotted wiring duct
- Also cuts round and solid wall duct
- Spring loaded

CAT. NO.	DESCRIPTION
DK-65TB	Duct Finger Cutter



United States

Tel: 901.252.8000 800.816.7809 Fax: 901.252.1354



Tel: 888.862.3289







For fast, high-volume duct cutting!

Benchmount Cutting Tool

- Engineered for use with Ty-Duct® plastic wiring ducts and covers
- · All-steel construction lasts for years
- Adjustable gauge sets the desired length of duct
- Easy-to-read measuring indicator
- Adjustable stop for easy repeated cutting
- · Sharp, easy-to-replace blades

600

CAT. NO.	DESCRIPTION
DC-125TB	Benchmount Duct Cutter

Notch duct sidewalls fast! **Notching Tool**



- Notches sidewalls to bottom scoreline
- · Facilitates tee and corner junctions
- Rugged design
- Easy to use
- Spring loaded

CAT. NO.	DESCRIPTION
DNT-100TB	Duct Notching Tool

Mount ducts quickly!

Rivet Installation Tool

- · Use for setting duct rivets
- · Pressure on the tool head secures the rivet in place



CAT. NO.	DESCRIPTION
08205	08200 Series Rivet Installation Tool



United States

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Technical Services Tel: 888.862.3289





1-800-453-1692



Wiring Duct — Wire Fill Capacity

Note: Wire fill is based on 50% fill of duct area.

		ELECTRICAL								D	ATA CABL	.E				
NORMAL		8 AWG	10 AWG	12 /	AWG		14 AWG		16 /	AWG	18 /	AWG	22 AWG		24 AWG	
DUCT SIZE	AREA (INCHES ²)	0.216	0.153	0.122	0.158	0.105	0.139	0.165	0.096	0.125	0.084	0.113	0.065	0.217	0.250	0.422
(IN.)	(UTP/CM	UTP/CM	
W H		THHN	THHN	THHN	MTW	THHN	MTW	MTW	THHN	MTW	THHN	MTW	MTW	CAT5E	CAT6	UTP/CM
.75 X 1.00	.750	5	9	14	9	19	11	8	23	14	30	17	51	5	3	1
.75 X 1.50	1.125	7	14	22	13	29	17	12	35	21	46	25	76	7	5	2
.75 X 2.00	1.500	9	18	29	17	39	22	16	47	27	61	34	101	9	7	2
1.00 X 1.00	1.000	6	12	19	11	26	15	10	31	18	40	22	68	6	5	2
1.00 X 1.50	1.500	9	18	29	17	39	22	16	47	27	61	34	101	9	7	2
1.00 X 2.00	2.000	12	24	38	23	52	30	21	62	37	81	45	135	12	9	3
1.00 X 3.00	3.000	18	37	58	34	78	44	31	93	55	121	67	203	18	14	5
1.00 X 4.00	4.000	24	49	77	46	104	59	42	124	73	162	90	270	24	18	6
1.50 X 1.00	1.500	9	18	29	17	39	22	16	47	27	61	34	101	9	7	2
1.50 X 1.50	2.250	14	27	43	26	58	33	24	70	41	91	50	152	14	10	4
1.50 X 2.00	3.000	18	37	58	34	78	44	31	93	55	121	67	203	18	14	5
1.50 X 3.00	4.500	27	55	86	52	117	67	47	140	82	182	101	304	27	21	7
1.50 X 4.00	6.000	36	73	115	69	155	89	63	186	110	243	134	406	36	27	10
2.00 X 1.00	2.000	12	24	38	23	52	30	21	62	37	81	45	135	12	9	3
2.00 X 1.50	3.000	18	37	58	34	78	44	31	93	55	121	67	203	18	14	5
2.00 X 2.00	4.000	24	49	77	46	104	59	42	124	73	162	90	270	24	18	6
2.00 X 3.00	6.000	36	73	115	69	155	89	63	186	110	243	134	406	36	27	10
2.00 X 4.00	8.000	48	98	154	92	207	118	84	248	146	324	179	541	49	37	13
2.00 X 5.00	10.000	60	122	192	114	259	148	105	310	183	405	224	676	61	46	16
2.50 X 2.00	5.000	30	61	96	57	130	74	52	155	91	202	112	338	30	23	8
2.50 X 3.00	7.500	45	92	144	86	194	111	79	233	137	304	168	507	46	34	12
2.50 X 4.00	10.000	60	122	192	114	259	148	105	310	183	405	224	676	61	46	16
3.00 X 1.00	3.000	18	37	58	34	78	44	31	93	55	121	67	203	18	14	5
3.00 X 2.00	6.000	36	73	115	69	155	89	63	186	110	243	134	406	36	27	10
3.00 X 3.00	9.000	54	110	173	103	233	133	94	279	165	364	201	609	55	41	14
3.00 X 4.00	12.000	72	146	230	137	311	177	126	372	219	486	269	811	73	55	19
3.00 X 5.00	15.000	90	183	288	172	389	222	157	465	274	607	336	1014	91	69	24
4.00 X 1.50	6.000	36	73	115	69	155	89	63	186	110	243	134	406	36	27	10
4.00 X 2.00	8.000	48	98	154	92	207	118	84	248	146	324	179	541	49	37	13
4.00 X 3.00	12.000	72	146	230	137	311	177	126	372	219	486	269	811	73	55	19
4.00 X 4.00	16.000	96	195	307	183	415	237	168	496	293	648	358	1082	97	73	26
4.00 X 5.00	20.000	120	244	384	229	518	296	210	620	366	810	448	1352	121	91	32
6.00 X 4.00	24.000	144	293	461	275	622	355	252	744	439	972	537	1623	146	110	39

Formula for Calculating Fill Capacity

Number of wires = $\frac{Duct W x H}{1.75 x (Wire 0.D.)^2} / 2$



United States
Tel: 901.252.8000
800.816.7809
Fax: 901.252.1354

Technical Services Tel: 888.862.3289



Properties of Materials Used in Wiring Duct

PROPERTY	UNITS	ASTM TEST	PVC	HALOGEN FREE
Specific Gravity		D792	1.43	1.10
ZOD	ftlb./in.	D256	2	5.0
Flexural Strength	psi	D790	10,900	12,800
Flexural Modulus	psi	D790	382,000	360,000
Tensile Strength	psi	D638	5,500	7,800
Compressive Strength	psi	D695	8,600	16,000
Water Absorption	24 hrs%	D570	.10	.07
Hardness	Rockwell Duro D	D785 D676	R-111 78	R-115
Dielectric Strength 60Hz, 25° C, s/t	vpm	D149		400
Dielectric Constant		D150		
60Hz, Dry			1.9	2.65
1MHz, Dry				2.64
Volume Resistivity	ohm-cm	D257		1017
Heat Deflecting (° F@ 264 psi)	۰F	D648	158	212
Flammability			94 V-0	94 V-1

The above information is believed reliable. The user should, however, check the applicable specifications to verify values.

Rigid Polyvinyl Chloride (PVC)

- · General-purpose material for indoor applications
- UL94 flammability rating of V-0
- UL® Recognized for use in temperatures up to 50° C (122° F)
- · Economical wiring duct material

Halogen Free

- For use in halogen-free or high-temperature applications
- . UL94 flammability rating of V-1
- UL® Recognized for use in higher temperatures up to 95° C (203° F)
- · 20% lighter than PVC



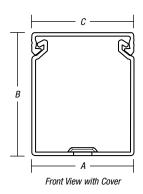
United States

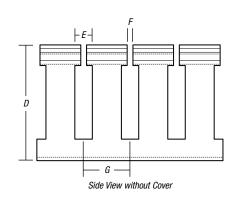
Tel: 901.252.8000

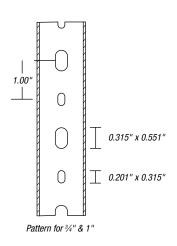
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Ty-Duct * Wide Slot Wiring Duct Dimensions







0 0 0

0 0 0

0 0 0

Pattern for 2" & 21/2"

1.00"

1.00"

1.00"

TRA	DE S	SIZE			DIME	NSIONS (IN			
W		Н	Α	В	C	D	E	F	G
.75	Χ	1.00	.94	1.24	.94	1.03	.30	.10	.80
.75	Χ	1.50	.94	1.70	.94	1.50	.30	.10	.80
.75	Χ	2.00	.94	2.19	.94	2.01	.30	.10	.80
1.00	Χ	1.00	1.25	1.24	1.25	1.03	.30	.10	.80
1.00	Χ	1.50	1.25	1.70	1.25	1.50	.30	.10	.80
1.00	Χ	2.00	1.25	2.19	1.25	2.01	.30	.10	.80
1.00	Χ	3.00	1.25	3.14	1.25	2.99	.30	.10	1.00
1.00	Χ	4.00	1.25	4.46	1.25	4.32	.30	.10	1.00
1.50	Χ	1.00	1.75	1.24	1.75	1.03	.30	.10	.80
1.50	Χ	1.50	1.75	1.70	1.75	1.50	.30	.10	.80
1.50	Χ	2.00	1.75	2.19	1.75	2.01	.30	.10	.80
1.50	Χ	3.00	1.75	3.14	1.75	2.99	.30	.10	1.00
1.50	Χ	4.00	1.75	4.46	1.75	4.32	.30	.10	1.00
2.00	Χ	1.00	2.25	1.24	2.25	1.05	.30	.10	.80
2.00	Χ	1.50	2.25	1.70	2.25	1.52	.30	.10	.80
2.00	Χ	2.00	2.25	2.19	2.25	2.03	.30	.10	.80
2.00	Χ	3.00	2.25	3.14	2.25	3.00	.30	.10	1.00
2.00	Χ	4.00	2.25	4.46	2.25	4.33	.30	.10	1.00
2.00	Χ	5.00	2.25	5.15	2.25	5.02	.38	.10	1.33
2.50	Χ	2.00	2.75	2.19	2.75	2.03	.30	.10	.80
2.50	Χ	3.00	2.75	3.14	2.75	3.00	.30	.10	1.00
2.50	Χ	4.00	2.75	4.46	2.75	4.33	.30	.10	1.00
3.00	Χ	1.00	3.25	1.24	3.25	1.06	.30	.10	.80
3.00	Χ	2.00	3.25	2.19	3.25	2.08	.30	.10	.80
3.00	Χ	3.00	3.25	3.14	3.25	3.06	.30	.10	1.00
3.00	Χ	4.00	3.25	4.46	3.25	4.39	.30	.10	1.00
3.00	Χ	5.00	3.25	5.15	3.25	5.06	.38	.10	1.33
4.00	Χ	1.50	4.25	1.70	4.25	1.58	.30	.10	.80
4.00	Χ	2.00	4.25	2.19	4.25	2.08	.30	.10	.80
4.00	Χ	3.00	4.25	3.14	4.25	3.06	.30	.10	1.00
4.00	Χ	4.00	4.25	4.46	4.25	4.39	.30	.10	1.00
4.00	Χ	5.00	4.25	5.15	4.25	5.06	.38	.10	1.33

Pattern for 3", 4" & 6"

Dimensions shown are for reference only. Contact T&B for specific dimensional needs.

6.25

4.46



6.25

6.00 X 4.00

United States Tel: 901.252.8000

4.39

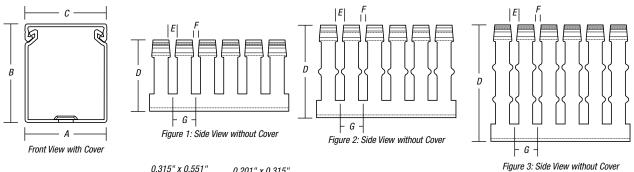
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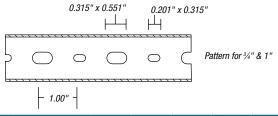
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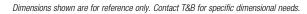
Pattern for 11/2"

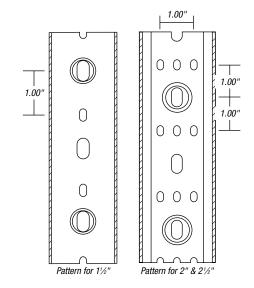
Ty-Duct® **Narrow Slot Wiring Duct Dimensions**

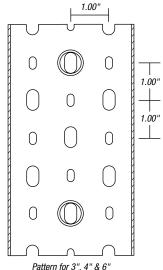




TD	\ne	SIZE		DIMENSIONS (INCHES)						
	ADE									
W		Н	FIG.	A	В	С	D	E	F	G
.75	Χ	1.50	1	.94	1.70	.94	1.70	.195	.10	.50
1.00	Χ	1.00	1	1.25	1.24	1.25	1.24	.195	.10	.50
1.00	Χ	1.50	1	1.25	1.70	1.25	1.70	.195	.10	.50
1.00	Χ	2.00	2	1.25	2.19	1.25	2.19	.195	.10	.50
1.00	Χ	3.00	3	1.25	3.14	1.25	3.14	.195	.10	.50
1.00	Χ	4.00	3	1.25	4.46	1.25	4.46	.195	.10	.50
1.50	Χ	1.00	1	1.75	1.24	1.75	1.24	.195	.10	.50
1.50	Χ	1.50	1	1.75	1.70	1.75	1.70	.195	.10	.50
1.50	Χ	2.00	2	1.75	2.19	1.75	2.19	.195	.10	.50
1.50	Χ	3.00	3	1.75	3.14	1.75	3.14	.195	.10	.50
1.50	Χ	4.00	3	1.75	4.46	1.75	4.46	.195	.10	.50
2.00	Χ	1.00	1	2.25	1.24	2.25	1.05	.195	.10	.50
2.00	Χ	1.50	1	2.25	1.70	2.25	1.52	.195	.10	.50
2.00	Χ	2.00	2	2.25	2.19	2.25	2.03	.195	.10	.50
2.00	Χ	3.00	3	2.25	3.14	2.25	3.00	.195	.10	.50
2.00	Χ	4.00	3	2.25	4.46	2.25	4.33	.195	.10	.50
2.00	Χ	5.00	3	2.25	5.15	2.25	5.02	.195	.10	.50
2.50	Χ	2.00	2	2.75	2.19	2.75	2.03	.195	.10	.50
2.50	Χ	3.00	3	2.75	3.14	2.75	3.00	.195	.10	.50
2.50	Χ	4.00	3	2.75	4.46	2.75	4.33	.195	.10	.50
3.00	Χ	1.00	1	3.25	1.24	3.25	1.06	.195	.10	.50
3.00	Χ	2.00	2	3.25	2.19	3.25	2.08	.195	.10	.50
3.00	Χ	3.00	3	3.25	3.14	3.25	3.06	.195	.10	.50
3.00	Χ	4.00	3	3.25	4.46	3.25	4.39	.195	.10	.50
3.00	Χ	5.00	3	3.25	5.15	3.25	5.06	.195	.10	.50
4.00	Χ	2.00	2	4.25	2.19	4.25	2.08	.195	.10	.50
4.00	Χ	3.00	3	4.25	3.14	4.25	3.06	.195	.10	.50
4.00	Χ	4.00	3	4.25	4.46	4.25	4.39	.195	.10	.50
4.00	Χ	5.00	3	4.25	5.15	4.25	5.06	.195	.10	.50







Pattern for 3", 4" & 6"

www.tnb.com

United States Tel: 901.252.8000 800.816.7809

Fax: 901.252.1354

Technical Services Tel: 888.862.3289





Ty-Duct Wiring Duct meets all of the prominent agency approvals and standards.

Agency Approvals

Thomas & Betts Ty-Duct® wiring duct is UL® recognized for all requirements set forth in UL standard 1565 "Positioning Device."



Ty-Duct® wiring duct meets all applicable requirements of the Canadian Standard Association as described in CSA C22.2 No. 18.5.



All Ty-Duct® wiring duct components comply with the European Directives for CE (Conformite European) Marking.



All materials used in the making of the Ty-Duct® wiring duct comply with the European Directives 2002/95/EC (RoHS), 2002/96/EC (WEEE), and 2003/11/EC.

Standards

NFPA-79-2011

Thomas & Betts Ty-Duct® wiring duct is compliant with the National Fire Protection Agency NFPA-79-2011. All materials used in the manufacturing of the Ty-Duct® components are selected from flame-retardant material and comply with IEC 60332-1. The testing is required in order to comply with NFPA-79-2011, Section 13.3.1.

UL 508/UL 508A

As required in UL508/UL508A a factory-installed conductor shall be separated from a conductor used in a different circuit when the conductors are not insulated for the maximum voltage of either circuit. The Ty-Duct® wiring duct with a divider wall creates the required separation to meet this requirement.

DIN 43 659

This European standard specifies dimensions for slotted trunkings installed in electrical switchgear assemblies. The standard defines the following dimensions:

- The mounting hole pattern
- The mounting hole slot dimensions
- The mounting hole pitch and location
- The minimum overall product length



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Carlon® Wiring Trough and Accessories

No wires to pull, no hard-towork-with metal components.

Carlon[®] Wire Safe[®] Wireway and Wiring Trough

Carlon® leads the way with the world's broadest line of non-metallic wiring management products designed for easier installation, greater performance and lower installed cost. That includes our Carlon® Wire Safe® wireway, wiring trough and fittings. It's the perfect solution for containing electrical, electronic and communication wire and cable. That's because it's easy to install, provides durable protection and eliminates the need to pull conductors, too. Just compare it point for point against the competition and you'll see why it's the bestalternative for you.



Easy to Cut and Assemble.

Wireway and trough can be cut easily and cleanly with either a hacksaw or fine-tooth saw to make field fabrication a snap. And it's equally easy to couple components with either Carlon® primer and PVC cement or non-metallic push rivets.

Rugged Yet Lightweight.

UV-stabilized, high-impact resistant PVC provides a strong, durable, non-corrosive, non-conductive housing for wire and cable. At the same time, components are so light and easy to handle that installation can be done by one person.



Application Flexibility.

Wireway and trough are suitable for a wide range of applications, from the most demanding commercial and industrial uses, including food service companies and chemical plants, to communication and computer facilities. Both wireway and trough can be used on walls, ceilings or across supports.

A Complete Non-Metallic System.

Both wireway and trough are available in 2" x 2", 3" x 3", 4" x 4" and 6" x 6" dimensions. Wireway comes cut in easy-to-use 10' lengths for larger jobs, and for tighter spaces, we offer specific lengths of wiring trough to fit distances of 1' to 10'. Both can be used with our non-metallic enclosures, conduit and fittings to create a total non-metallic wire and cable management system far superior to metal counterparts.



No Wires to Pull.

Once your wireway or trough is installed, just lay your wire and cable in, pop the cover on and you're done. It's as easy as that, and that's a lot easier than pulling wire or cable.

Easy to Rewire.

Clip-on cover design enables easy access for adding or removing wire and cable after initial installation.



Improved NEMA 12 Wireway End Caps.

Our new wireway end caps are now made with pre-installed adhesive-backed gaskets. This new design makes them easier to use and also qualifies them for a NEMA 12 rating.



Carlon

Carlon® Wiring Trough and Accessories

Wire Safe® Wireway

CAT. NO.	OUTSIDE NOMINAL DIMENSIONS (IN.)	LENGTH (FT.)	STD. CTN.	STD. WT. (LBS.) PER 10'
17011	2 x 2	10	1	4.7
17013	3 x 3	10	1	11.2
17015	4 x 4	10	1	11.2
17017	6 x 6	10	1	21.4

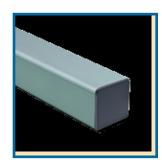
Note: Endcaps are not supplied with this series.

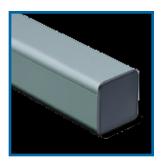


Wire Safe® Wiring Trough

	<u> </u>		
CAT. NO.	OUTSIDE NOMINAL DIMENSIONS (IN.)	STD. CTN.	STD. WT. (LBS.)
12" Trough			
18111	2 x 2	1	.6
18113	3 x 3	1	1.0
18115	4 x 4	1	1.4
18117	6 x 6	1	3.1
24" Trough			
18211	2 x 2	1	1.1
18213	3 x 3	1	1.8
18215	4 x 4	1	2.6
18217	6 x 6	1	5.3
36" Trough			
18311	2 x 2	1	1.5
18313	3 x 3	1	2.6
18315	4 x 4	1	3.7
18317	6 x 6	1	7.4
48" Trough			
18411	2 x 2	1	2.0
18413	3 x 3	1	3.3
18415	4 x 4	1	4.8
18417	6 x 6	1	9.6
60" Trough			
18511	2 x 2	1	2.5
18513	3 x 3	1	4.1
18515	4 x 4	1	5.9
18517	6 x 6	1	11.7
72" Trough			
18611	2 x 2	1	2.9
18613	3 x 3	1	4.9
18615	4 x 4	1	7.1
18617	6 x 6	1	13.8
120" Trough			
18011	2 x 2	1	4.8
18013	3 x 3	1	8.1
18015	4 x 4	1	11.6
18017	6 x 6	1	22.4
All wiring trough is made	to order and is cumplied with a pair	of and cane	

All wiring trough is made to order and is supplied with a pair of end caps.









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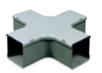
Except where noted by ►

Carlon[®] Wiring Trough and Accessories

Wire Safe® Fittings

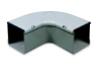
Flat Cross (Clip-On Cover)

	SIZE	STD.	STD. WT.
CAT. NO.	(IN.)	CTN.	(LBS.)
EGFCJ *	2 x 2	1	.5
EGFCL *	3 x 3	1	1.3
EGFCN †	4 x 4	1	1.7
EGFCR †	6 x 6	1	4.8



90° Bend Flat Cover (Clip-On Cover)

CAT. NO.	SIZE (IN.)	STD. CTN.	STD. WT. (LBS.)
EGLFJ*	2 x 2	1	.3
EGLFL *	3 x 3	1	.6
EGLFN †	4 x 4	1	1.1
EGLFR †	6 x 6	1	3.3



90° Bend External Cover (Clip-On Cover)

CAT. NO.	SIZE (IN.)	STD. CTN.	STD. WT. (LBS.)
EGLEJ *	2 x 2	1	.3
EGLEL †	3 x 3	1	.8
EGLEN †	4 x 4	1	1.2
EGLER †	6 x 6	1	3.3



Flange

CAT. NO.	SIZE (IN.)	STD. CTN.	STD. WT. (LBS.)
EGFJ ►	2 x 2	10	1.1
EGFL ►	3 x 3	10	1.4
EGFN ►	4 x 4	10	2.2
EGFR ►	6 x 6	10	3.0



End Cap (UL NEMA 12 Rated)

	SIZE	STD.	STD. WT.
CAT. NO.	(IN.)	CTN.	(LBS.)
EGSEJ *	2 x 2	10 Pair	.6
EGSEL *	3 x 3	10 Pair	.9
EGSEN *	4 x 4	10 Pair	1.6
EGSER #	6 x 6	10 Pair	5.0



External Coupling

CAT. NO.	SIZE (IN.)	STD. CTN.	STD. WT. (LBS.)
EGCEJ	2 x 2	10	1.3
EGCEL	3 x 3	10	2.2
EGCEN	4 x 4	10	2.5
EGCER	6 x 6	10	7.8



E151021

90° Bend Internal Cover (Clip-On Cover)

	SIZE	STD.	STD. WT.
CAT. NO.	(IN.)	CTN.	(LBS.)
EGLIJ *	2 x 2	1	.3
EGLIL †	3 x 3	1	.7
EGLIN †	4 x 4	1	1.1
EGLIR †	6 x 6	1	3.0



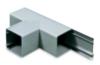
Tee Flat Cover (Clip-On Cover)

	SIZE	STD.	STD. WT.
CAT. NO.	(IN.)	CTN.	(LBS.)
EGTFJ *	2 x 2	1	.4
EGTFL *	3 x 3	1	.9
EGTFN †	4 x 4	1	1.4
EGTFR †	6 x 6	1	3.8



Tee External Cover (Clip-On Cover)

	SIZE	STD.	STD. WT.
CAT. NO.	(IN.)	CTN.	(LBS.)
EGTEJ†	2 x 2	1	.4
EGTEL †	3 x 3	1	.9
EGTEN †	4 x 4	1	1.4
EGTER †	6 x 6	1	3.8



Internal Coupling

CAT. NO.	SIZE (IN.)	STD. CTN.	STD. WT. (LBS.)
EGCIJ ►	2 x 2	10	1.3
EGCIL ►	3 x 3	10	2.2
EGCIN ►	4 x 4	10	2.5
_	6 x 6	N/A	N/A



Push Rivets

CAT. NO.	SIZE	STD.	STD. WT.
	(IN.)	CTN.	(LBS.)
EGPR ►	N/A	200	.4



Hangers

CAT. NO.	SIZE (IN.)	STD. CTN.	STD. WT. (LBS.)
EGSBJ ►	2 x 2	10	.9
EGSBL ►	3 x 3	10	1.3
EGSBN ►	4 x 4	10	1.9
EGSBR ►	6 x 6	10	2.8



1-800-453-1692

* Molded fitting — couplings not needed

† Fabricated fitting — order couplings separately

** No coupling is required for 6" fabricated end cap







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Wiring Trough Technical Information

Installation Instructions

Description.

Carlon® Wire Safe® Wireway and Wiring Trough is manufactured from extruded PVC. The standard color is gray. The wireway consists of a base channel that is formed to receive a clip-on cover. Wiring troughs include a pair of ready-to-install end caps.

Cover Installation and Removal.

The cover can be installed by exerting hand pressure along its front face in such a manner as to engage and clip projections on the side walls of the base channel. The cover can be removed by inserting a tool (i.e., a screwdriver shaft) into one end of the wireway enclosure and exerting pressure against the underside of the cover, which is then "peeled off" from the base.

Wireway Fittings.

Fittings enable the wireway to be positioned around corners and enable tees and crosses to be created without detracting from the protective characteristics. Interconnecting pieces can be assembled using couplings and rivets or cement as necessary.

Molded fittings do not require couplings because they fit on the exterior of the wireway. However, primer and solvent cement are needed. See cementing instructions on the following page.

Fabricated fittings do require internal or external couplings, and these must be ordered separately. To install fittings, a ½2"-diameter hole should be drilled in the wireway to match the external coupling hole. A push rivet should be used to connect the two pieces. To connect an internal coupling to the inside of a fitting, use Carlon® Quick-Set Clear Cement.

Applications.

These systems are designed for use in commercial and industrial areas. They may be used for the containment of electrical wiring/cables for power and lighting circuits and also communication and computer facilities. They are suitable for mounting on the surface of walls or ceilings or suspended across suitably positioned supports. Ambient temperatures should not exceed 122° F.

Installation.

- 1. Mark the surface upon which the wireway is to be mounted.
- 2. Measure the run and identify position of fittings.
- Remove cover from wireway, starting at one end, with a peeling action (use of a screwdriver or similar lever is recommended).
- 4. Drill mounting holes through base at 36" centers maximum. To evenly distribute the load, drill two rows of mounting holes adjacent to each wall of the wireway.
- The holes in the wireway should be drilled oversize to enable expansion. Mount washers under the head of the mounting device. Do not fully tighten the mounting head.
- 6. Mount the wireway using screws or bolts.
- Affix the wireway cover by aligning it to the wireway base. Starting at one end, press the cover into its engaged position.
- **8.** Overlap the cover to the base joint to improve rigidity of the joint.

Engineering Specifications

Code Approvals.

Carlon® Wire Safe® Wireway and Wiring Trough is recognized by the current National Electrical Code®, Article 378, for non-metallic wireways. It is UL Listed for electrical wiring up to 600 volts. UL File Numbers: UL E151021.

Specification for Carlon® Wire Safe Wireway and Wiring Trough.

- The wireway and wiring troughs shall be Carlon[®] Wire Safe Wireway and Wiring Trough.
- The Carlon® Wire Safe Wireway and Wiring Trough shall provide protection for electrical, low-voltage, data and communication wiring or cables.
- The Carlon® Wire Safe Wireway and Wiring Trough shall be listed and installed per the NEC® Article 378 for non-metallic wireways.
- The Carlon® Wire Safe Wireway and Wiring Trough shall be manufactured from gray precision-extruded Polyvinyl Chloride (PVC) meeting UL 94 V-O requirements and shall be suitable for field painting.
- The Carlon® Wire Safe Wireway and Wiring Trough shall include base, cover, fittings, etc.
- The Carlon® Wire Safe Wireway and Wiring Trough shall provide all fittings required to form a complete, integrated surface raceway system. End caps shall be gasketed and shall have a NEMA Type 12 rating.

 The Carlon® Wire Safe Wireway and Wiring Trough shall provide raceway with the following cross sectional areas:

1. 2 x 2 — 3.165 in.² (20.4 cm²) **3.** 4 x 4 — 13.694 in.² (88 cm²)

2. 3 x 3 — 7.378 in.² (47 cm²) **4.** 6 x 6 — 31.871 in.² (205 cm²)

Fittings.

Internal and external elbow shall be a fitting cover that snaps onto the main base. Flat elbows and flat tees shall be a fitting cover that snaps on to the main base. End caps shall be gasketed and NEMA Type 12 rated.

Installation.

Install in accordance with the manufacturer's instructions, NFPA 70 and NEC® standard. Install base, cover, fittings, accessories, etc., as necessary for a complete system.

NEC and National Electrical Code are registered trademarks of the National Fire Protection Association, Inc.



United States

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Wiring Trough Technical Information

Cementing Instructions

- Make a square cut using a miter box or precisely marked line on the wireway to provide a smooth connection.
- Make certain surfaces to be bonded are free of dirt, dust, etc., by wiping them clean with a rag and by removing sawcut burrs with a knife or rasp.
- With a dauber, place a coating of Carlon® Clear Primer on the wireway and its mating parts. Thoroughly coat the surfaces to be mated.
- 4. Allow the Carlon® Clear Primer a few seconds to soften the PVC surface (the time may need to be adjusted depending upon the temperature).
- 5. Apply a complete coating of Carlon® Quick-Set Clear Cement to matching ends that will be joined.
- **6.** Hold the parts in position by exerting pressure on the surfaces with clamps.
- 7. Allow 15 minutes or more before removing clamps.

Clear Primer

CAT. NO.	STANDARD Size	STD. CTN.	STD. WT. (LBS.)
VC9903	Pint, Dauber Top	24	27.0
VC9902	Quart, Dauber Top	12	25.0

Cement and primer not needed for end caps.

All-Weather Quick-Set Clear Cement

CAT. NO.	STANDARD Size	STD. CTN.	STD. WT. (LBS.)
VC9984	Half-Pint, Dauber Top	10	7.0
VC9983	Pint, Dauber Top	24	30.0
VC9982	Quart, Dauber Top	12	29.0
VC9981P	Gallon, Pour Top	6	54.0

Expansion And Contraction

Wireway will expand or contract with variations in temperature. To compensate for this expansion and contraction, during installation leave a .25" gap at joint, glue only one side of internal coupling or use external coupling with push rivets. All mounting holes should be drilled oversize and fasteners should not be tightened fully to allow for expansion and contraction.

Materials

PVC Homopolymer (ASTM F1784)	minimum cell class 12354B
Specific Gravity (ASTM D792)	1.46
Thermal Conductivity (ASTM C177)	1.3 BTU/hr./ft.²/°F/in.
Heat-Deflection Temperature	
@ 264 psi (ASTM D648)	70° C
Tensile Strength (ASTM D638)	6000 psi
Flammability (UL 94)	V-0

Physical Properties

SIZE (IN.)	CRUSH STRENGTH ¹ (LBS.)	IMPACT STRENGTH ² (FTLBS.)
2 x 2	650	40
3 x 3	500	30
4 x 4	500	40
6 x 6	600	50

- 1 Load on 6" long sample just prior to wall buckling; fully recoverable.
- 2 5-lb. weight with 11/4" dia. face at 73° F.



Dimensions

OUTSIDE Nominal Size (in.)	OUTSIDE ACTUAL SIZE (IN.)	INSIDE HEIGHT (IN.)	INSIDE Width (in.)	INSIDE Area (In.²)	WIREWAY THICKNESS (IN.)	COVER THICKNESS (IN.)	WT./FT. (LB./FT.)
2 x 2	1.97 x 1.97	1.8	1.79	3.31	.09	.08	.6
3 x 3	2.96 x 2.96	2.8	2.76	7.94	.10	.08	.85
4 x 4	3.94 x 3.94	3.75	3.72	14.39	.11	.08	1.48
6 x 6	5.91 x 5.91	5.67	5.67	13.48	.12	.12	2.29

All information represents typical values and does not represent a minimum performance specification.





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Wiring Trough Technical Information

Wire Fill Chart

	AREA	OF CONDU	JCTOR (SQ.	. IN.)	_																
	A RFH-2,	В	С	D							UM NUMBER OF CONDUCTORS ALLOWED OR CROSS SECTIONAL AREA OF THE WIREWAY)										
CONDUCTOR SIZE	RH, RHH, RHW***.	TF, THW,	TFN, Thhn,	XHHW,	2 x 2 (.6 IN.²)				3 x 3 (1.5 IN.²)					4 x 4 (2.7 IN.²)				6 x 6 (6.4 IN. ²)			
AWG/KCMIL	SF-2***	TW [†]	THWN	ZW ^{††}	Α	В	С	D	_		В	С	D	A	В	С	D	A	В	С	D
#18 AWG	.0167	.0088	.0062	_	36	68	96	_	8	9	170	241	_	16	1 300	435		383	727	1032	_
#6 AWG	.0196	.0109	.0079	_	31	55	76	_	7	6	137	189	_	13	7 24	341	_	326	587	810	_
#14 AWG	.0230	.0135	.0087	_	26	44	69	_	6	5	111	172	_	11	7 200	310	_	278	474	735	_
#14 AWG	.0327*	_	_	_	18	_	_	_	4	5	_	_	_	82	! —	_	_	195	_	_	_
#14 AWG	_	$.0206^{\dagger}$	_	.0131	_	29	_	46	-	-	72	_	114	_	- 13 ⁻	_	206	_	310	_	488
#12 AWG	.0278	.0172	.0117	_	21	35	51	_	5	3	87	128	_	97	156	230	_	230	372	547	_
#12 AWG	.0384*	_	_	_	16	_	_	_	3	9	_	_	_	70) —	_	_	166	_	_	_
#12 AWG	_	.0252 [†]	_	.0167	_	24	_	36	_	-	59	_	89	_	- 107	· —	161	_	253	_	383
#10 AWG	.0460	.0222	.0184	_	13	27	33	_	3:	2	67	81	_	58	12	146	_	139	288	347	_
#10 AWG	_	.0311	_	.0216	_	19	_	28	_	_	48	_	69	_	- 86	_	125	_	205	_	296
#8 AWG	.0845	.0471	.0373	_	7	13	16	_	1	7	31	40	_	31	57	72	_	75	135	171	_
#8 AWG	_	.0598 [†]	_	.0456	_	10	_	13	_	_	25	_	32	_	- 45	_	59	_	107	_	140
#6 AWG	.1238	.0819	.0519	.0625	4	7	11	10	1:	2	18	28	24	21	32	52	43	51	78	123	102
#4 AWG	.1605	.1087	.0845	.0845	4	6	7	7	ç)	13	17	17	16	24	31	31	39	58	75	75
#3 AWG	.1817	.1263	.0995	.0995	3	5	6	6	8	}	11	15	15	14	21	27	27	35	50	64	64
#2 AWG	.2067	.1473	.1182	.1182	3	4	5	5	7	,	10	12	12	13	18	22	22	30	43	54	54
#1 AWG	.2715	.2027	.1590	.1590	2	3	4	4	Ę)	7	9	9	9	13	16	16	23	31	40	40
1/0 AWG	.3107	.2367	.1893	.1893	2	2	3	3		ļ	6	7	7	8	11	14	14	20	27	33	33
2/0 AWG	.3578	.2781	.2265	.2265	1	2	2	2	4		5	6	6	7	9	11	11	17	23	28	28
3/0 AWG	.4151	.3288	.2715	.2715	1	1	2	2	3	3	4	5	5	6	8	9	9	15	19	23	23
4/0 AWG	.4840	.3904	.3278	.3278	1	1	1	1	3		4	4	4	5	6	8	8	13	16	19	19
250 kcmil	.5917	.4877	.4026	.4026	1	1	1	1	2		3	3	3	4	5	6	6	10	13	15	15
300 kcmil	.6837	.5581	.4669	.4669	_	1	1	1	2		2	3	3	3	4	5	5	9	11	13	13
350 kcmil	.7620	.6291	.5307	.5307	_	_	1	1	1		2	2	2	3	4	5	5	8	10	12	12
400 kcmil	.8365	.6969	.5931	.5931	_	_	1	1	1		2	2	2	3	3	4	4	7	9	10	10
500 kcmil	.9834	.8316	.7163	.7163	_	_	_	_	1		1	2	2	2	3	3	3	6	7	8	8
600 kcmil	1.1940	1.0261	.8791	.9043	_	_	_	_	1		1	1	1	2	2	3	3	5	6	7	7
700 kcmil	1.3355	1.1575	1.0011	1.0297	_	_	_		1		1	1	1	2	2	2	2	4	5	6	6
750 kcmil	1.4082	1.2252	1.0623	1.0936	_	_	_	_	1		1	1	1	1	2	2	2	4	5	6	5
800 kcmil	1.4784	1.2908	1.1234	1.1499	_	_	_	_	1		1	1	1	1	2	2	2	4	4	5	5
900 kcmil	1.6173	1.4208	1.2449	1.2668							1	1	1	1	1	2	2	3	4	5	5
1000 kcmil	1.7530	1.5482	1.3623	1.3893							_	1	1	1	1	1	1	3	4	4	4
1250 kcmil	2.2062	1.9532	1.3023	1.7671							_			1	1		1	2	3	4	3
1500 kcmil	2.2002	2.2751	_	2.0612										1	1		1	2	2	_	3
1750 kcmil	2.8832	2.5930		2.3779					_	-				Į.	1		1	2	2	_	2
	3.2079	2.9930	_						_					_	- 1		1	1	2		2
2000 kcmil	3.20/9	2.9013	_	2.6590	_	_	_	_	_	_	_	_	_	_	_	_	I	I	۷	_	2

^{*} Dimensions of RHH and RHW.

Notes:

- 1) The ampacities of the conductors shall be reduced as shown in the table **below.**
- 2) Refer to the National Electrical Code® for ambient temperature correction factors.

NUMBER OF CONDUCTORS	COLUMN A — PERCENT OF VALUES IN Tables as adjusted for ambient Temperature if necessary	NUMBER OF CONDUCTORS	COLUMN B** — PERCENT OF VALUES IN Tables as adjusted for ambient Temperature if necessary
4 through 6	80	4 through 6	80
7 through 9	70	7 through 9	70
10 through 24*	70	10 through 20	50
25 through 42*	60	21 through 30	45
43 and above*	50	31 through 40	40
_	_	41 through 60	35

^{*} These factors include the effects of a load diversity of 50 percent. ** No diversity.

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^{***} Dimensions of RHH and RHW without outer covering are the same as THW No. 18 through No. 10, solid as well as No. 8 and larger, stranded.

Dimensions of THW in sizes No. 14 through No. 8. No. 6 THW and larger are same dimension as TW.

^{††} No. 14 through No. 2.