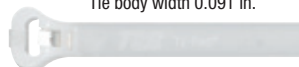


Cable Ties



TY523M
Tie body width 0.091 in.



TY524
Tie body width 0.140 in.



TY525M
Tie body width 0.184 in.



TY5272M
Actual size body width 0.270 in.



Std. Cat. No.	Bulk Cat. No.	Type DSG	Plenum Rating	Usage	ANSI UL94 Flame Rating	Body Width (in./mm)	Length (in./mm)	Max. Wire Bundle Dia. (in./mm)	Military Standard Part No.	Tensile Strength (lb./N)	Std. Pkg.	Bulk Pkg.	
Ty-Rap® Standard Nylon 6/6 Cable Ties													
TY523M	TY23M	2/21	AH-2	Indoor Only	V-2	0.09/2.29	3.62/91.95	0.87/22.00	MS3367-4	18/80.00	100	1,000	
TY52315M	TYB2315M						7.00/177.80	1.25/32.00	—				
TY5232M	TY232M						8.00/203.20	2.00/51.00	—				
TY5234M	TY234M						14.00/355.60	4.00/102.00	—				
TY524M	TY24M					0.14/3.56	5.50/139.70	1.38/35.00	MS3367-5	40/180.00			
TY5242M	TY242M						8.19/208.03	2.00/51.00	—				
TY526M	TY26M						0.19/4.83	11.10/281.94	3.00/76.00	—			30/130.00
TY5244M	TY244M							14.50/368.30	4.00/102.00	—			
TY525M	TY25M	2S/21S			0.19/4.83	7.31/185.67	1.89/48.00	MS3367-1	50/222.00				
TY5253M	TY253M					11.60/294.64	3.00/78.00	MS3367-7					
TY528M	TY28M					14.20/360.68	4.00/102.00	MS3367-2					
TY5272M	TY272M					0.27/6.86	8.75/222.25	2.00/51.00		—	120/540.00		
TY527M	TY27M				13.40/340.36		4.00/102.00	MS3367-3					
TY5275M	TY275M				18.00/457.20		5.00/127.00	—					
TY5277M	TY277M				24.30/617.22		7.00/177.00	—					
TY529M	TY29M						30.00/762.00	9.00/229.00	MS3367-6				
TY53510M**	—	N/A			N/A	N/A	0.32/8.13	35.00/889.00	10.00/254.00	—	175/778.40	—	
TY54513M**	—	N/A			N/A			45.00/330.20	13.00/330.20	—			

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

** Halogen free, Silicone free
UL recognized models.

Cable Ties



TY523MX
Tie body width 0.091 in.



TY524MX
Tie body width 0.140 in.



TY525MX
Tie body width 0.184 in.



TY5272MX
Actual size body width 0.270 in.

The MX Series cable ties are recommended for outdoor use.



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

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

**

Halogen free, Silicone free

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

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

Cable Ties



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

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



The colours you need in convenient packs!

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

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

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

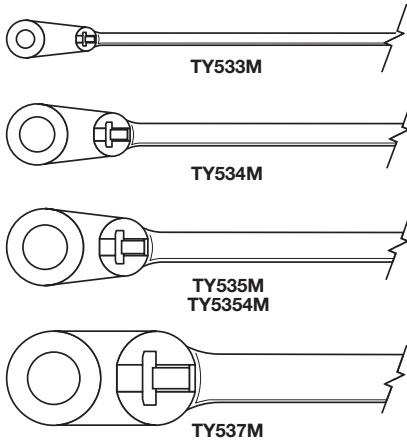
For use in temperatures ranging from -60°C to 85°C (-76°F to 185°F)

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

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

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

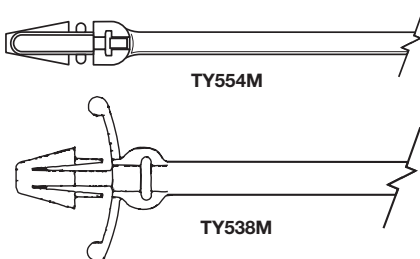
How to Order Coloured Ty-Rap® Cable Ties and Accessories



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

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

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

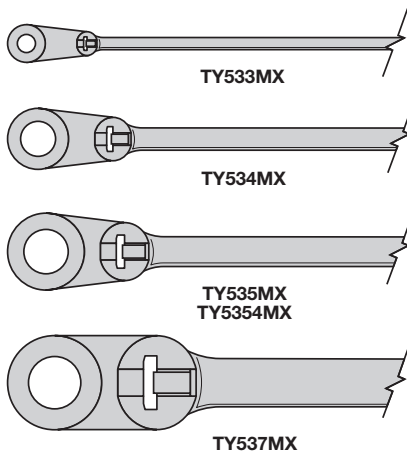


For use in 3/16 in. and 1/4 in. pre-drilled holes. Thickness panel 0.094 max. (TY554M)
Range 0.04 - 0.156 (TY538M)

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

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

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



The MX series cable ties are recommended for outdoor use.

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

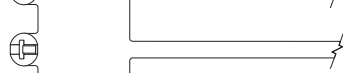
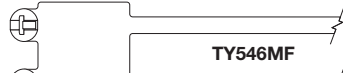
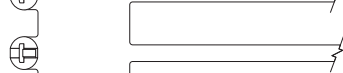
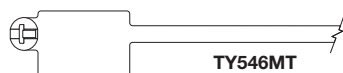
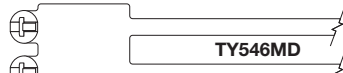
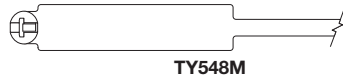
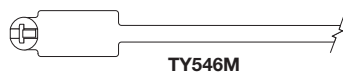
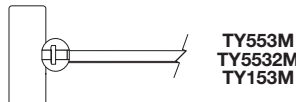
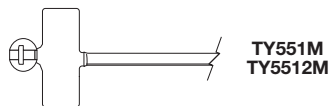
Colour – Black

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

Identification Cable Ties

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

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



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

Colour — Natural nylon colour

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

Identification Cable Ties



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

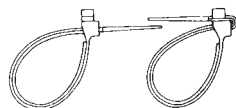
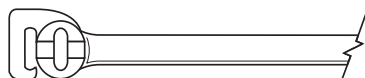
- *When snapped onto the tie head, the tag is conveniently held in place until it is permanently fastened*
- *Offers maximized inventory control because the I.D. tag will accommodate different tie lengths and materials*

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

Note: Made of natural nylon 6/6.

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

Speciality Cable Ties



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



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



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

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

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

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

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

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

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

Colour — Black

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

Stripped-Coloured Cable Ties

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

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



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

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



Stripped-Coloured Cable Ties

Bi-Coloured Ty-Rap®

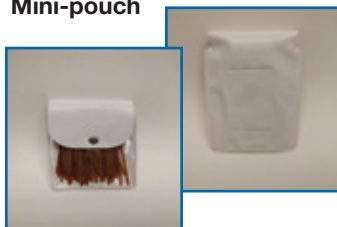
There is also available a plastic (Part# 650-40587) and canvas (Part# 650-40587-C) pouch designed with 25 pockets to store the bi-coloured ties. Also available is a plastic mini-pouch (Part# 650-40587-M) designed to fit into shirt pocket or over belt. Holds a maximum of 5 plastic bags of 50 each of the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

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

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

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

**Ty-Rap®
Mini-pouch**



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

PLASTIC & CANVAS POUCH LOADING DIAGRAM

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



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

**Ty-Rap®
Ty-Pouch**



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

Cable Ties Dispenser

Cable Ties at your fingertips!

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

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



Cable Ties for Special Environments

Material Selection Ordering Guide

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

How to use Table 1:

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

Refer to tables 2 (page C37) and 3 (pages C38-C40) for more detailed information regarding physical properties of the materials and chemical resistance of the materials respectively.

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

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

TABLE 1

Available Materials

5 = Most Suitable 1 = Least Suitable

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

Cable Ties for Special Environments

Perfect for outdoor applications!



Colour — Black

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

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



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

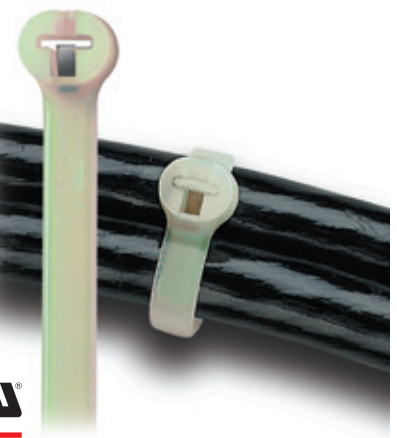
Beat the heat!

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



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

*UR Pending



Colour — Olive

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

Cable Ties for Special Environments



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

Material — Polyamide (Nylon 6/6) or Polypropylene

Colour — Blue

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

Typical Applications

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

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



Make safety a priority!

This material meets UL 94V-0 flammability rating.

Colour — White

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

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



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

Colour — Black

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

Std. Cat. No.	Bulk Cat. No.	Length (in./mm)	Body Width (in./mm)	Max. Wire Bundle Dia. (in./mm)	Tensile Strength (lb./N)	Std. Pkg.	Bulk Pkg.
Ty-Rap® Nylon 12 Cable Ties – Ultraviolet and weather-resistant!							
TYC525MX	TYC25MX	7.31/185.67	0.18/4.57	1.75/44.45	35/155.70	100	1,000
—	TYC28MX	14.20/360.68		4.00/101.60		—	
—	TYC272MX	8.00/203.20	0.27/6.86	2.00/50.80	85/378.10	—	500
TYC527MX	TYC27MX	13.20/335.28		3.50/88.90		50	
—	TYC29MX	30.00/762.00	0.30/7.62	9.00/228.60		—	

Cable Ties for Special Environments



Engineered to withstand high temperatures!

Material meets ASTM D4066 PA121.

Colour — Green Tint

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

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



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

Colour — Black

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



Cat. No.	Body Width (in./mm)	Length (in./mm)	Max. Wire Bundle Dia. (in./mm)	Tensile Strength (lb./N)	Std. Pkg.
Ty-Rap® Weather-Resistant Polypropylene Ties					
TYP23MX	0.09/2.29	3.62/91.95	0.63/16.00	18/80.07	1,000
TYP25MX	0.18/4.57	7.01/178.05	1.75/44.45	30/133.40	
TYP28MX		13.92/353.57	4.00/101.60		
TYP27MX	0.27/6.86	13.17/334.52	3.50/88.90	60/266.90	500



Colour — Maroon

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



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

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

* Solvay Solexis, Inc. registered trademark.

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



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

Colour — Aqua



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

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