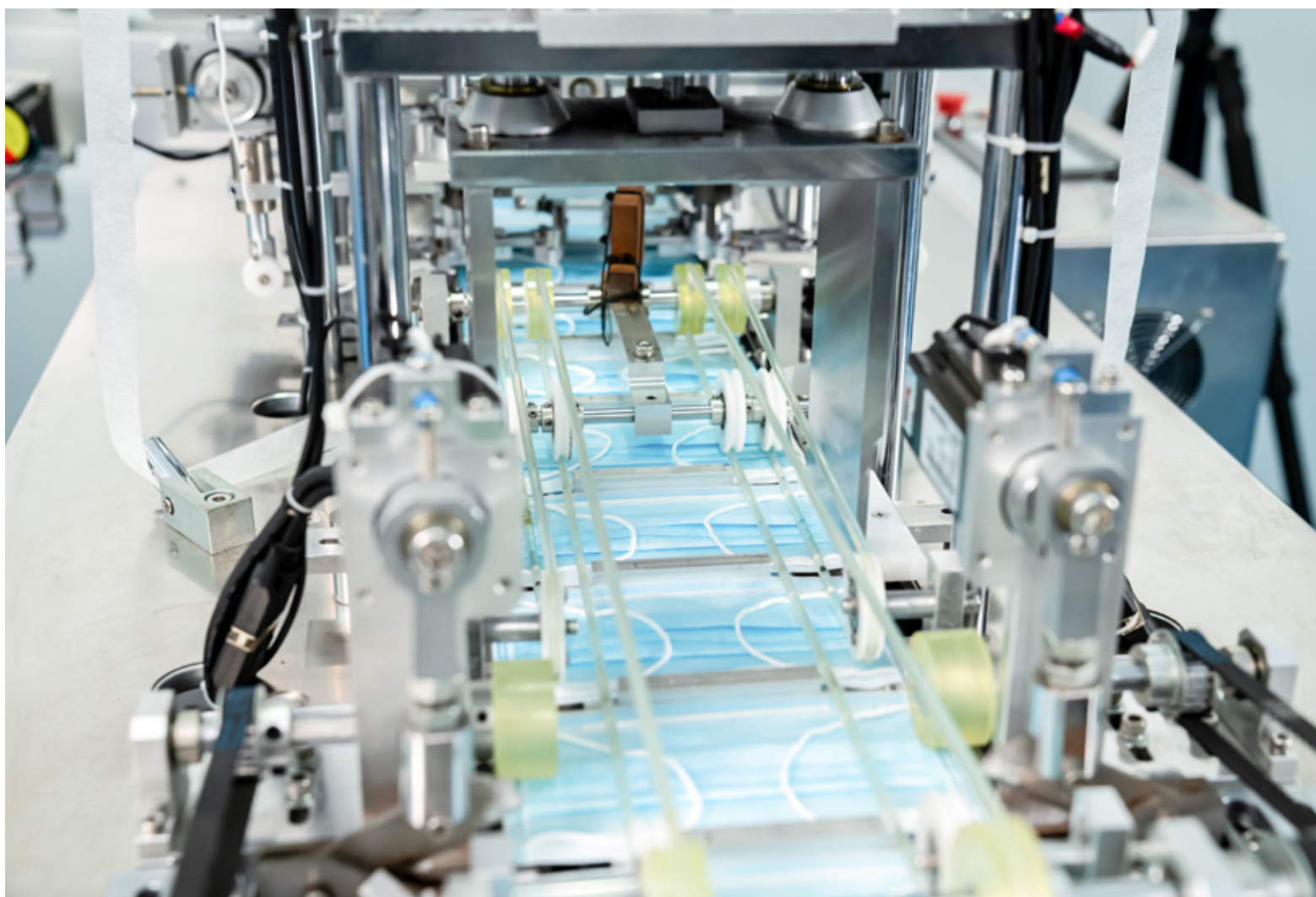

CATALOG

Ty-Rap® Fastening solutions

Easily bundle, secure and manage your cables

Ty-Rap®



First developed to solve the problem of bundling the miles of wiring found inside commercial aircrafts, Ty-Rap® cable ties can now be found virtually everywhere — from high performance racing engines to backyard tool sheds. Self-fastening and extremely durable in demanding applications, the ground-breaking design of the Ty-Rap cable tie demonstrates how to solve a complex problem with simple technology.

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Ty-Rap®

Fastening solutions, how it all started

When you choose a Ty-Rap cable tie, you can count on quality, longevity, performance and innovation to make your work easier.

First developed to solve the problem of bundling the miles of wiring found inside commercial aircraft, Ty-Rap cable ties can now be found virtually everywhere — from high performance racing engines to backyard tool sheds. Self-fastening and extremely durable in demanding applications, the ground-breaking design of the Ty-Rap cable tie demonstrates how to solve a complex problem with simple technology.

The marine-grade stainless steel locking device inside the tie head provides proven performance for more resilience to the elements and easier installation. The Ty-Rap brand has a cable tie offering for the most adverse conditions: humidity, heat, cold, UV radiation, aggressive chemicals, radiation and other harsh conditions.

Engineered for labor savings and high performance, Ty-Rap cable ties are commonly used in a variety of applications.

For the cable tie, the proverbial light bulb came on over Maurus Logan's head while touring a Boeing aircraft manufacturing facility in 1956. Aircraft wiring was a cumbersome and detailed undertaking, involving thousands of feet of wire organized on sheets of 50-foot long plywood and held in place with knotted, wax-coated, braided nylon cord. Each knot had to be pulled tight by wrapping the cord around one's finger, which sometimes cut the operators' fingers until they developed thick calluses or "hamburger hands." Logan was convinced there had to be an easier, more forgiving way to accomplish this critical task. For the next couple of years, Logan experimented with various tools and materials.

On June 24 1958, a patent for the long-lasting, easy-to-use Ty-Rap cable tie was issued. The rest, as they say, is history.



"My dad didn't have a lot of formal education, but he was the most ingenious person I have ever met," said Robert Logan, Maurus' son. "He never thought the customary way of doing things was good enough, and when he looked at anything, he thought about ways to improve it. The invention of the cable tie is an excellent example of how he worked."

Robert Logan, son of Maurus Logan,
Ty-Rap cable tie inventor

Ty-Rap® high performance cable ties

Introduction

First patented in 1958 as a way to bundle wiring in airplanes, the Ty-Rap cable tie brand remains a benchmark of excellence and innovation in wire management.

ABB's broad offering of Ty-Rap cable ties makes the task of fastening, bundling, clamping and managing wires easier and quicker for industrial applications, construction, communications, utility and OEM professionals, as well as home improvement specialists and do-it-yourself enthusiasts. When strength, aesthetics, reliability and performance are required, knowledgeable professionals turn to Ty-Rap — the original source for cable ties and accessories.

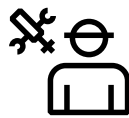
What gives a Ty-Rap cable tie its exceptional strength? The corrosion-resistant, non-magnetic stainless steel locking barb in its head grips tightly and allows for a completely adjustable fit. Its raised tail makes it easy to pick up, even with gloved hands. And the easy-grip tail surface makes it easy to pull tight, even in wet or cold conditions.

Engineered for high-performance, Ty-Rap cable ties are available in standard nylon or in materials that are specially formulated to withstand the most adverse conditions, from UV exposure to extreme cold or heat. They have even been designed to withstand the rigors of space.

Ty-Rap® cable ties — the right choice when performance really matters.

ABB is a leading power and automation technology group, active in more than 100 countries with about 150,000 employees worldwide.

ABB's portfolio of fastening products includes Ty-Rap and Ty-Met™ cable ties and the Deltec® cable support system.



Ty-Rap — the perfect fastening solution where performance really matters
All-in-one tool for fastening, bundling clamping and managing cable.



Product selection guide

How to choose the right fastener

						
Type	Ty-Rap® Heat stabilized	Ty-Rap® Extra high temperatures	Ty-Rap® Flame retardant	Ty-Rap® Low smoke	Ty-Rap® UV-resistant black	Ty-Rap® Extreme outdoor
	High temperatures		Smoke and flame resistance		UV resistance	
Applications	Transportation, automotive	Transportation, automotive	Rail, Aerospace HVAC	HVAC plenum installations High-performance smoke and flame requirements	Outdoor	Solar, Transportation
Material	HS PA6.6	HT PA6.6	FR PA6.6	ECTFE	UV PA6.6	UV PA12
Product series	TYH*M	TYHT*M	TY*MFR	TYV*M	TY*MX	TYC*MX
Max. tensile strength	540 N 120 lb	540 N 120 lb	540 N 120 lb	220 N 50 lb	780 N 175 lb	400 N 90 lb
Operating temperature	-60 to 105 °C -76 to 221 °F	-40 to 150 °C -40 to 302 °F	-20 to 65 °C -4 to 149 °F	-60 to 160 °C -76 to 320 °F	-60 to 105 °C -76 to 221 °F	-40 to 85 °C -40 to 185 °F
Max. length	771 mm 30.4"	617 mm 24.3"	360 mm 14.2"	192 mm 7.5"	1143 mm 45"	770 mm 30.3"
Max. wire bundle diameter	229 mm 9.0"	177 mm 6.97"	100 mm 4.0"	48 mm 1.88"	330 mm 13.0"	230 mm 9.0"
UV-resistance	●	●	●	● ● ● ● ●	● ● ●	● ● ● ●
UL flammability rating	V-2	V2	V-2	V-0	V-2	V-2
Colors						
Easy to install	● ● ● ●	● ● ● ●	● ● ● ●	● ● ● ●	● ● ● ●	● ● ● ●
Installation tools	ERG50 ERG120	ERG50 ERG120	ERG50 ERG120	ERG50 ERG120	ERG50 ERG120	ERG50 ERG120
See page	31	32	33	35	25–26	38

See material specifications section on pages 10 to 18.



**Ty-Rap®
Chemical
resistant**



**Ty-Rap®
Extreme
environment**



**Ty-Rap®
Antimicrobial
detectable**



Deltec®



Ty-Met™



Ty-Rap®

	Contaminant resistance		Utilities and telecom		Extreme environments	Customization and performance
Chemical processing, autoclave sterilizing	Nuclear, power plants, space industry, environments with risk of smoke generation	Food and beverage, cosmetic, any business using detection equipment		Utilities, packaging	Marine, rail, oil and gas, industrial	Standard applications Mil-spec
Polypropylene	ETFE	DET PA6.6 DET PP		Acetal +UV	Stainless steel	PA6.6
TYP*MX	TYZ*M	TY*M-NDT TY*M-PDT		TYD-*, CSS*	YLS, LS, TYS	TY*M
265 N 60 lb	540 N 120 lb	540 N 120 lb		1112 N 250 lb	4000 N 900 lb	780 N 175 lb
-60 to 85 °C -76 to 185 °F	-60 to 170 °C -76 to 338 °F	-40 to 85 °C -40 to 185 °F		-65 to 90 °C -85 to 194 °F	-40 to 300 °C -40 to 572 °F	-60 to 85 °C -76 to 185 °F
360 mm 14.2"	360 mm 14.2"	360 mm 14.2"		305m 1000ft	1400 mm 55.1"	1143 mm 45.0"
100 mm 4.0"	100 mm 4.0"	100 mm 4.0"		4m 13.1ft	425 mm 16.7"	330 mm 13.0"
• • •	• • • • •	• •		• • • •	• • • • •	• • •
HB	V-0	HB		HB	Absolutely fireproof	V-2
• • • •	• • • •	• • • •		• • •	•	• • • •
ERG50 ERG120	ERG50 ERG120	ERG50 ERG120		WT3D	DAS250 CT3	ERG50 ERG120
37	36	39-40		41-42	60-67	23-24, 27-30

Environmental considerations

Impact on product life



Chemical resistance

ABB fastening products are developed to meet the needs of a variety of demanding environments. Whether a chemical processing facility, nuclear power plant or the wash-down in food processing, there is a range of material choices that will extend the fastener's life and avoid costly maintenance or the introduction of foreign debris.



Hot / cold resistance

No matter the installation, there is an ABB fastening product to meet the need. From the hot chambers in engine compartments to the extreme cold of winter, the unique design and performance of our products offer some of the broadest range of operating temperatures and lowest installation temperatures.



UV resistance

UV radiation is a formidable force that has a damaging effect on nearly everything it touches. ABB fastening products are formulated to withstand a variety of conditions from desert to rainforest.





Storage and installation

Impact on product performance



Moisture resistance

Most fastening products are made with variants of nylon because nylon offers a great combination of flexibility, strength, durability and economical pricing. Nylon, like many materials, absorbs and releases moisture depending on the external relative humidity. This can have a detrimental impact on the durability of cable ties. If the moisture content gets too low, cable ties become brittle and can break during installation. ABB fastening products addresses those challenges by using high grades of nylon and offers products in moisture-resistant materials for easier installation and resilience in cold or dry conditions.



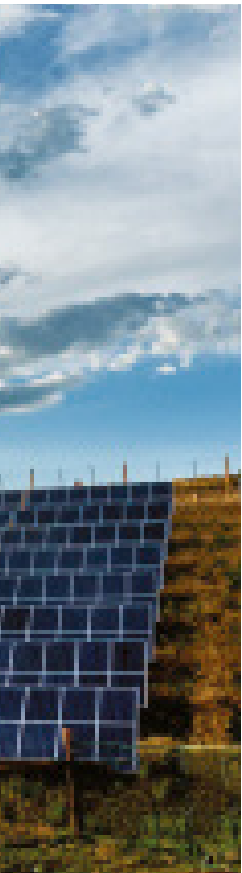
Storage

For best results, fastening products should be stored in the sealed packaging until used and should not be stored in direct sunlight or near a heat source. Ideal storage conditions are 23 °C (73 °F) and 50% relative humidity.



Installation

For best results, a compatible ABB cable tie installation tool should be used to fasten and trim cable ties. Installations must always be tested on the application to ensure proper interaction with the bundle as the type of installation and environmental conditions will vary greatly and impact performance. A properly installed cable tie will be tightened and trimmed so the tail remains flush to the cable tie head. If the tail retracts more than 1 mm inside the head, the cable tie has been tightened more than recommended and may cause premature failure.



Material specifications

Overview

Cable tie series	TY...M				TY...MX			
Data sheet no.	TDS000570	TDS000566	TDS000518	TDS000487	TDS000570	TDS000566	TDS000518	TDS000487
Max. operating temperature	185 °F (85 °C)	185 °F (85 °C)	185 °F (85 °C)	185 °F (85 °C)	221 °F (105 °C)	221 °F (105 °C) ⁴	221 °F (105 °C)	185 °F (85 °C)
Min. operating temperature	-76 °F (-60 °C)	-76 °F (-60 °C) ²	-76 °F (-60 °C)	-76 °F (-60 °C)	-76 °F (-60 °C)	-76 °F (-60 °C) ⁵	-76 °F (-60 °C)	-76 °F (-60 °C)
Installation temperature	-4 °F (-20 °C)	-40 °F (-40 °C) ³	-4 °F (-20 °C)	-4 °F (-20 °C)	-22 °F (-30 °C)	-22 °F (-30 °C) ⁶	-22 °F (-30 °C)	-22 °F (-30 °C) ⁶
UL flammability rating	UL 94 V-2	UL 94 V-2	UL 94 V-2	UL 94 V-2	UL 94 V-2	UL 94 V-2	UL 94 V-2	UL 94 V-2
Colors	Multiple ¹	Multiple ¹	Multiple ¹	Multiple ¹	UV black	UV black	UV black	UV black
UV resistant	No	No	No	No	Yes	Yes	Yes	Yes
Flame retardant	No	No	No	No	No	No	No	No
Heat resistant	No	No	No	No	No	No	No	No
Enhanced weatherability	No	No	No	No	No	No	No	No
Flexible at low temp	No	No	No	No	No	No	No	No
Radiation resistant	No	No	No	No	No	No	No	No
Chemically resistant	No	No	No	No	No	No	No	No
Halogen free	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
Silicon free	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes

¹ Available in natural, black, brown, red, orange, yellow, green, purple, gray and white.

² -40 °C (-40 °F) for TY24M and TY242M

³ -4 °F (-20 °C) for TY26M and TY244M

⁴ 185 °F (85 °C) for TY242MX

⁵ -40 (-40 °C) for TY24MX

⁶ -40C (-40 °F) for TY24MX, TY271MX, TY275MX and TY277MX

-4C (-20 °F) for TY242MX

⁷ 185 °F (85 °C) for TYC272MX

⁸ -40 °F (-40 °C) for TYP27MX

[illegible]

Material specifications

Certifications — IEC 62275, UL, CSA and CE

The National Electrical Manufacturers Association (NEMA) is the consortium of manufacturers that agree to the parameters of product testing and direct the IEC standards.

The International Electrotechnical Commission (IEC) is the agency that sets quality standards and technical requirements for products in the electrical industry. IEC 62275 is the unified standard for cable ties adopted in 2013.

Underwriters Laboratory (UL) is the leading standards agency for the US. Products listed as cULus are also recognized in Canada. UL 62275 is the quality and test standard unified with IEC 62275 for positioning devices. UL 62275 supersedes UL 1565.

CSA Group is the leading standards agency for Canada. CSA C22.2 No. 62275 is the quality and test standard unified with IEC 62275 for cable ties and is fully harmonized with UL 62275.

Conformité Européenne (CE) is the accepted standards agency for the European Economic Area and is adopted by most European countries. CE 62275 is the quality and test standard unified with IEC 62275 for cable ties and is a self-certified standard.



Type certifications

Type 1	Retains 100% declared loop tensile strength when tested in the as-received condition, and at least 50% of declared loop tensile strength after being subjected to specified test conditions	
Type 11	Type 1 with additional pre-qualification to long-term performance characteristics of nonmetallic molding materials (Not recognized for CE standards)	
Type 2	Retains 100% declared loop tensile strength, or mechanical strength for fixing device, after being subjected to specified test conditions	
Type 21	Type 2 with additional pre-qualification to long-term performance characteristics of nonmetallic molding materials (Not recognized for CE standards)	
Type 21S	Type 2 or Type 21 with additional qualification for suitability to support flexible metal conduit and cables in building construction in accordance with the requirements in relevant installation codes (fixing devices with 50 lb/220 N or higher loop tensile strength)	

Packaging markings

Flammability ratings (as tested after ignition and flame removed)	UL94-HB	Slow burning on a horizontal specimen; burning rate < 76 mm/min for thickness < 3 mm or burning stops before 100 mm	
	UL94-V2	Self-extinguishing on horizontal and burning stops within 30 seconds on a vertical specimen; drips of flaming particles are allowed	
	UL94-V0	Self-extinguishing on horizontal and burning stops within 10 seconds on a vertical specimen; non-inflamed drips of particles allowed	
Outdoor rating	UV		Survives 1000 hours of UV exposure in an approved UV testing apparatus and passes follow up testing per type requirements
Plenum rating	AH-2	Suitable for use in air handling spaces (plenums) in accordance with Section 300.22 (C) and (D) of the National Electrical Code, and Rules 12-010 (3), (4), and (5), and 12-020 of the Canadian Electrical Code, Part I	
Mechanical performance rating	Minimum loop tensile strength		The mechanical performance rating for cable ties is expressed in terms of "minimum loop tensile strength" defined as: A reference mechanical characteristic of a cable tie with its locking mechanism engaged. The term "loop tensile strength" comes from a standard based on the US military specifications for cable tie use in aircrafts. The loop tensile strength test on cable ties exert the force from the inside out more or less equally with an attempt to stress the locking mechanism.

Material specifications

UL flammability ratings

—
Nylon 6.6 = Polyamide
6.6 is halogen-free
and silicone-free.

Flammability ratings for selecting cable ties

Note: Flammability ratings of cable tie materials per UL 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 127 x 12.7mm (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 swab.

Materials classed 94 V-0:

A material classed 94 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 304.8 mm (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 94 V-1:

A material classed 94 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 304.8 mm (12") below the test specimen
- E. Not have any specimens with glowing combustion that persists for more than 60 seconds after the second removal of the test flame.

Materials classed 94 V-2:

A material classed 94 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 304.8 mm (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

UL 94 horizontal burn (HB) test procedures

The test uses a ½" x 5" (12.7 mm x 127 mm) specimen held at one end in a horizontal position with marks at 1" (25.4 mm) and 5" (127 mm) from the free end. A flame is applied to the free end for 30 seconds or until the flame front reaches the 1" (25.4 mm) mark. If combustion continues the duration is timed between the 1" (25.4 mm) mark and the 5" (127 mm) mark. If combustion stops before the 5" (127 mm) mark, the time of combustion and the damaged length between the two marks are recorded. A set of three specimens are tested.

Materials classed 94 HB

A material that is less than 0.118" (3 mm) in thickness will be classified 94 HB if it has a burning rate of less than 3" (76.2 mm) per minute or stops burning before the 5" (127 mm) mark. If one specimen from the set of three fails to comply, a second set of three are tested. All three of this second set must comply. HB-rated materials are considered "self-extinguishing." This is the lowest (least flame retardant) UL 94 rating.

Material specifications

Adhesive material specifications

Installation instructions for self-adhesive mounting bases

- Mounting surfaces should be cleaned with alcohol-based (IPA) cleaner before application
- The self-adhesive mounting bases have a double-sided adhesive tape made of synthetic foam, covered by a protecting foil
- To install the self-adhesive mounting base, remove the protecting foil and press the mounting base onto the cleaned surface

The thickness of the self-adhesive foam (0.8 mm) compensates the irregularities of the application surfaces and allows installations on structured surfaces of cabinet doors, on sheet metal, on machines, etc

- The adhesion is achieved immediately during the installation; therefore, later repositioning is not possible

Adhesive material specifications

Property	Method	Unit of measure	Rubber based (self-adhesive)
Coated sides	–	each	2
Foam density	–	Kg/m ³	96,9
Peel adhesion	PSTC 1	N/cm width	10,9
	ASTM D 1000	Average	
Shear adhesion	Natural	15,0	15,0
22 °C (71.6 °F) 50% RH	PSTC 7	Hours	100 +
22 °C (71.6 °F) occasional wetting		N/m ²	68971
Tensile strength	ASTM D 412	PSI	100
Tear resistance	ASTM D 624	N/cm	52,6
Elongation at break	–	%	400
Service temperature	–	°C/ °F Min	-18
	–	°C/ °F Max	+66
Flammability	ASTM D 624		Slow burn

01 Thoroughly clean the surface on which you plan to mount the base with a clean cloth and a 50% isopropyl alcohol/50% water solution to remove dust, oil and any other impurities.

02 Allow the clean surface to air dry completely.

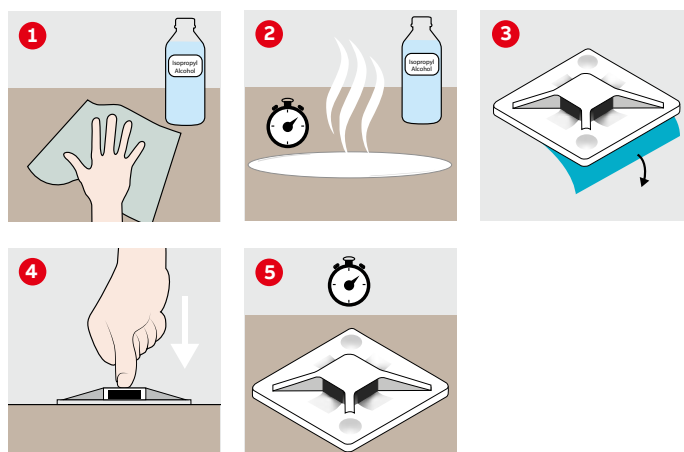
03 Peel off the protective backing from the base without touching the self-adhesive surface.

04 Press the base down firmly onto the mounting surface with your thumb and hold in place for several seconds.

05 Allow the specified set-up time to elapse (15 minutes for synthetic rubber or 72 hours for acrylic) before using the installed base to mount cable ties and bundles of cable.

How to mount self-adhesive bases

Application temperature range for both types of self-adhesive is 18 °C to 37 °C (65 °F to 100 °F). The product package will be stamped with an expiration date for the adhesive, and installation after that date is not recommended for best performance.



Material specifications

Material selection and specifications

Selecting the right material for your application

ABB offers cable ties and accessories in a wide variety of materials, each suited for specific environments. The purpose of this document, therefore, is to assist in choosing the best material for a particular application.

The effects of weathering, flame, chemicals, extreme temperatures and radiation on the different materials is presented in tabular form to facilitate the selection of the desired material for the application.

Having determined the most suitable material, one can choose from the wide variety of cable ties, identification ties, mounting bases, lashing ties, etc., offered by ABB.

Polyamide 6.6

- Thermoplastic material used in cable ties for universal applications in the industry
- Excellent resistance to shocks, chemicals, oils and temperature fluctuations
- High surface hardness and a small coefficient of friction
- Flammability rating: UL 94 V-2
- Halogen-free and silicone-free
- Indoor applications
- Ty-Rap® ties in standard Polyamide 6.6 are available in natural color only

Material specifications

Note: Nylon (Polyamide) is inherently susceptible to environmental conditions. Polyamide 6.6 cable ties are moisturized to optimum performance levels at machine-side and should be stored in cool dry areas out of direct sunlight. Cable ties are packaged in plastic bags containing moisture and should remain sealed until ready for use.

Polyamide 6.6, weather resistant

- Similar to Polyamide 6.6, but recommended for outdoor applications
- UV-resistant
- Halogen-free and silicone-free
- Ty-Rap® ties in weather-resistant Polyamide 6.6 are available in black color (with 2% carbon for military specifications) and in a wide range of colors (except natural)
- Flammability rating: UL 94 V-2



UV-resistant



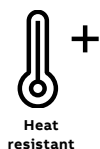
Weather-proof

Material specifications

Material selection and specifications

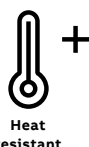
Polyamide 6.6, heat stabilized

- Similar to Polyamide 6.6, but increased operating temperatures, up to 105 °C (221 °F)
- Excellent tensile strength
- High temperature resistance
- Color: natural (may have a greenish tint)
- Flammability rating: UL 94 V-2



Polyamide 6.6, heat stabilized and UV-resistant

- Similar to Polyamide 6.6, but recommended for outdoor applications and/or high temperature applications, up to 105 °C (221 °F)
- Combines the features and benefits of Polyamide 6.6, weather resistant and Polyamide 6.6, heat stabilized
- Color: black
- Flammability rating: UL 94 V-2



Polyamide 6.6, flame retardant

- Excellent flammability rating: UL 94 V-0
- Ideal in areas where human life is at risk
- Color: white



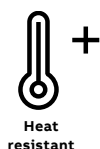
Polyamide 6.6, TyGenic™ antimicrobial detectable

- Similar to Polyamide 6.6, but contains a compound detectable by metal detectors and X-ray equipment and provides resistance to microbial growth on itself
- Color: dark blue, also contributes to visual detection
- Especially recommend for the food industry, and for any other contamination-sensitive industry using detection equipment
- Halogen free and silicone free
- Flammability rating: UL 94 HB



Polyamide 4.6, extra high temperature (150 °C)

- Similar to Polyamide 6.6, but outstanding resistance to high temperatures up to 150 °C (221 °F)
- Halogen free and silicone free
- Color: light green
- Flammability rating: UL 94 V-2



Polyamide 12, weather resistant

- Extremely flexible, also at low temperatures
- Ages better than Polyamide 6.6
- UV-resistant and weatherproof
- Better chemical resistance than Polyamide 6.6
- Color: black
- Flammability rating: UL 94 V-2



Material specifications

Material selection and specifications

Polypropylene, weather resistant

- Resistant against inorganic acids, polyhydric alcohols, neutral and basic salts
- Resists a number of other chemicals
- UV resistant
- Lower tensile strength than Polyamide 6.6
- Color: black
- Flammability rating: UL 94 HB



UV-resistant



Weather-proof



Chemical resistant

Polypropylene, TyGenic™ antimicrobial detectable

- Similar to standard Polypropylene, but contains a compound detectable by metal detectors (tested and rated at 1.5 mm (0.06") diameter ferrous sphere setting) and X-ray equipment
- Color: bright blue, also contributes to visual detection
- Especially recommend for the food industry, and for any other contamination-sensitive industry using detection equipment
- Halogen free and silicone free
- Flammability rating: UL 94 HB



Detectable

ETFE Fluoropolymer

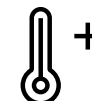
- Tensile strength slightly lower than Polyamide 6.6
- ETFE Fluoropolymer is inert to most solvents and chemicals, hydrolytically stable, UV and weather resistant
- Radiation resistant (meets IEEE383) and approved for nuclear plant use
- Non-outgassing properties for zero gravity applications
- Very high temperature resistance
- Flammability rating: UL 94 V-0
- The best all-around plastic material for cable ties
- Color: aquamarine



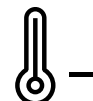
UV-resistant



Flame retardant



Heat resistant



Low temperature flexibility



Weather-proof



Radiation resistant



Chemical resistant

ECTFE Fluoropolymer

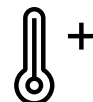
- Similar to ETFE Fluoropolymer in performance
- Outstanding characteristic: lower smoke density when burnt
- Recommended for applications where smoke generation is a concern, such as plenum areas
- Color: maroon
- Flammability rating: UL 94 V-0



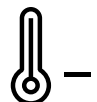
UV-resistant



Flame retardant



Heat resistant



Low temperature flexibility



Weather-proof



Low smoke



Chemical resistant

Material specifications

Material selection and specifications

Toughened weatherable acetal

- Excellent resistance to a wide variety of solvents, esters, oils, greases, gasoline and other petroleum hydrocarbons
- Resistant to weak acids and bases
- Excellent resistance to UV (weatherable acetal)
- Limited self-extinguishing properties
- Color: black
- Flammability rating: UL 94 HB



UV-resistant



Weather-proof



Chemical resistant

302/304 stainless steel, 316 stainless steel

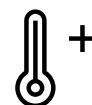
- Superior corrosion resistance
- Excellent tensile strengths at extreme temperatures
- High resistance to chemicals, acids and radiation
- 316 grade has a better resistance to saltwater corrosion and can be supplied with a halogen-free coating
- Extensively used in offshore, rail and petrochemical industries



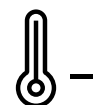
UV-resistant



Flame retardant



Heat resistant



Low temperature flexibility



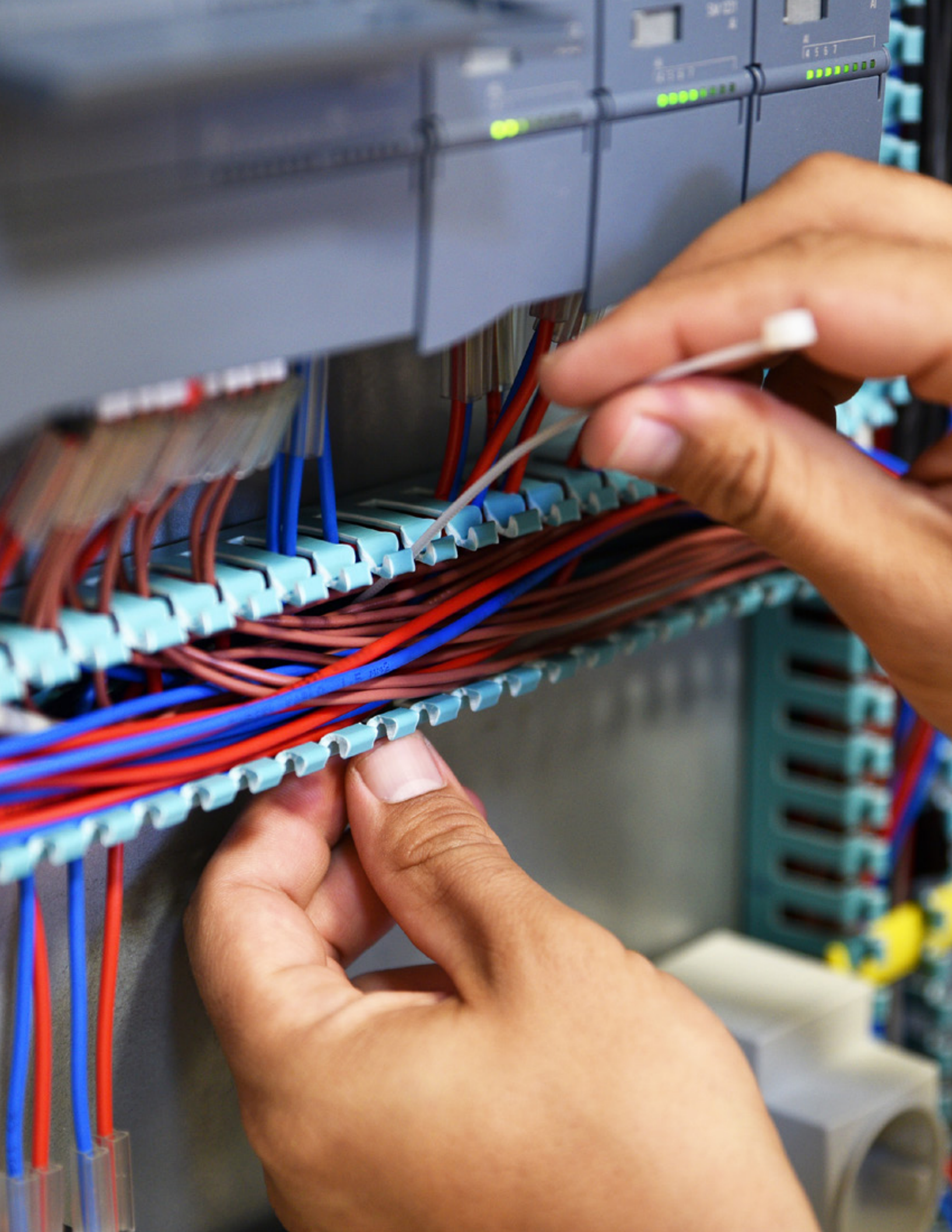
Weather-proof



Radiation resistant



Chemical resistant



Ty-Rap® high performance cable ties

Features and benefits

When strength, aesthetics, reliability and performance are required, knowledgeable professionals turn to the original and best source for cable ties and accessories. Ty-Rap fastening systems include a full range of cable ties, identification ties, clamps, mounting bases, harnessing aids and installing tools.

Using Ty-Rap fastening systems for any bundle application will improve the reliability of the installation, effectively reducing the total cost of ownership. The products' carefully designed features will also speed installation and provide the highest level of precision, safety and comfort.

Safety and reliability

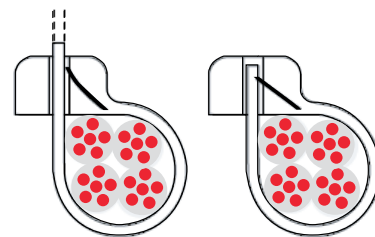
The oval head with rounded edges protects adjacent bundles and improves product life.

Durability

Solid body construction reduces stress points, increasing durability.

"The Grip of Steel®"

Corrosion-resistant marine-grade stainless steel barb provides secure lock.



Protects bundle

The smooth, rounded body with molded ribs and stipples firmly grips the bundle while protecting conductors from damage.

Easy handling

The turned-up tail makes orientation and handling easy, even in blind installations or tight locations.

Extensive range of approvals and certifications:

Lloyd's Register of Shipping, DNV-GL, Mil Specification, American Bureau of Shipping (ABS), CE declaration, compliant to the low voltage directive, EN/IEC 62275, UL 62275, CSA 62275, MS3367/3368 and EN45545.



Wide range of size combinations: Several lengths up to 45" and six typical widths with a tensile strength up to 175 lb, to fasten cable bundles with a diameter up to 13".

Performance installation tools: Industry-leading tools tighten and cut the loose end of cable ties with precision for repeatable, consistent installations that leave a safe, clean edge.

Most extensive choice of special materials:

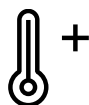
In addition to polyamide 6.6 (standard, UV-resistant, heat-stabilized, flame-retardant, heat-stabilized/UV-resistant), polyamide 4.6 (extra high temperature) and polyamide 12, Ty-Rap® cable ties are available in polypropylene, fluoropolymer (ECTFE), fluoropolymer (ETFE) and the recently introduced antimicrobial detectable polyamide 6.6 and detectable polypropylene. UL 94 V-0, UL 94 V-2 and UL 94 HB.



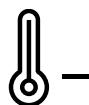
UV-resistant



Flame-retardant



Heat-resistant



Low-temperature flexibility



Weather-proof



Chemical-resistant



Radiation-resistant



Low-smoke



Detectable

Easy installation

The specially designed thin tail with grips makes installing the ties easy, even when wearing gloves.

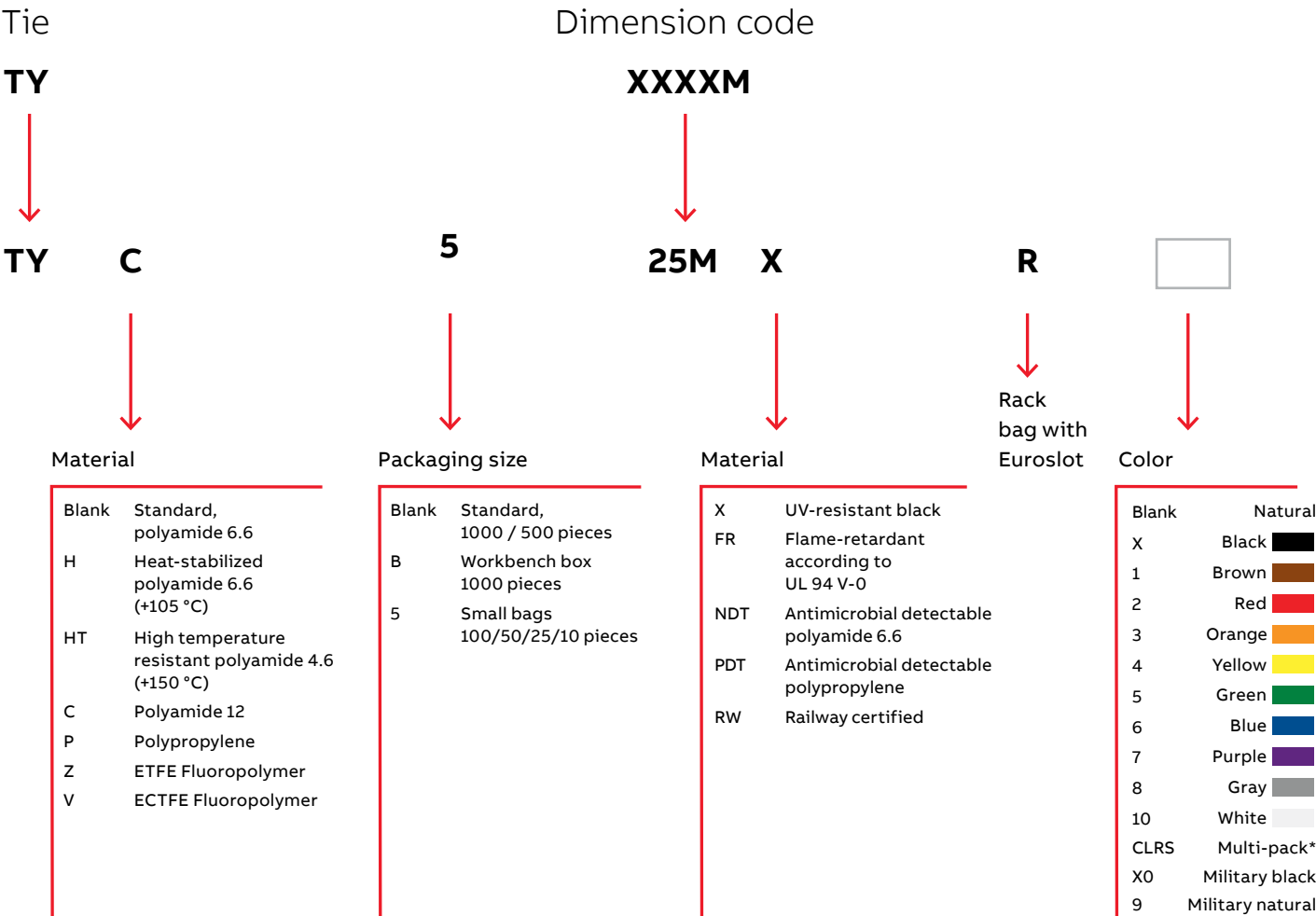
Different types of packaging, including the unique "workbench boxes" for fast working without problems or losses. Recyclable packaging for a better contribution to the environment.

Outstanding range of special ties, all with the famous stainless steel locking device — ties with mounting hole or integrated peg/nail, panel-mounting ties, identification ties with integrated label.

Broad range of mounting bases and accessories. Bundling the wire is just one step. ABB offers a wide range of solutions to mount the bundle in a variety of applications as well as specialty solutions for clamping and protecting wire, cable, tube and hoses.

Ty-Rap® high performance cable ties

Product code structure



Note: Nylon (polyamide) is inherently susceptible to environmental conditions. Ty-Rap cable ties are moisturized to optimum performance levels at machine-side and should be stored in cool, dry areas out of direct sunlight. Cable ties are packaged in plastic bags to contain moisture and should remain sealed until ready for use.

Ty-Rap® high performance cable ties

Polyamide 6.6 cable ties — Natural



Characteristics

- Standard (polyamide 6.6), to cover most indoor applications
- Several lengths and 6 typical widths with a tensile strength up to 175 lb to cover the most demanding applications
- Packaging: OEM bulk quantities in recyclable polythene bags
- Available in workbench boxes
- Mounting base available

Technical information

- Material — Molding: polyamide 6.6
- Material — Locking barb: 316 grade stainless steel
- Temperature range: -60 °C to +85 °C (-76 °F to 185 °F)
- Min. installation temp.: -20 °C (-4 °F)
- Color: Natural
- Flammability rating: UL 94 V-2
- Other properties: Halogen free, silicone free

Polyamide 6.6 cable ties — Natural



Product code	GID No.	Bundle ø from ... to		Length L		Width W		Min. tensile strength		Pack quantity [pieces]	MIL spec.*
		[mm]	[in]	[mm]	[in]	[mm]	[in]	[lbs]	[N]		
Standard pack size											
TY523M	7TAG009010R0012	1.5–16	0.1–0.6	92	3.6	2.3	0.09	18	80	100	●
TY52315M	7TAG009020R0050	1.3–32	0.1–1.3	178	7.0	2.3	0.09	18	80	100	–
TY5232M	7TAG009010R0008	1.5–51	0.1–2.0	203	8.0	2.3	0.09	18	80	100	–
TY5234M	7TAG009020R0052	1.5–102	0.1–4.0	356	14.0	2.3	0.09	18	80	100	–
TY524M	7TAG009090R0006	2–35	0.1–1.4	140	5.5	3.6	0.14	40	180	100	●
TY5242M	7TAG009090R0002	2–51	0.1–2.0	208	8.2	3.6	0.14	30	180	100	–
TY526M	7TAG009080R0001	2–76	0.1–3.0	284	11.2	3.6	0.14	30	135	100	–
TY5244M	7TCG009090R0004	2–102	0.1–4.0	368	14.5	3.6	0.14	30	135	100	–
TY525M	7TAG009170R0000	3–48	0.1–1.9	186	7.3	4.8	0.19	50	220	100	●
TY5253M	7TAG009180R0006	3–78	0.1–3.0	290	11.4	4.8	0.19	50	220	100	●
TY528M	7TAG009170R0003	3–102	0.1–4.0	361	14.2	4.8	0.19	50	220	100	●
TY5272M	7TAG009300R0015	6–51	0.2–2.0	223	8.8	6.9	0.27	120	534	50	–
TY527M	7TAG009280R0001	6–102	0.2–4.0	340	13.4	7.0	0.28	120	540	50	●
TY5275M	7TAG009290R0004	6–127	0.2–5.0	457	18.0	7.0	0.28	120	540	50	–
TY5277M	7TAG009290R0005	6–177	0.2–7.0	617	24.3	7.0	0.28	120	540	50	–
TY529M	7TAG009280R0004	6–229	0.2–9.0	771	30.4	6.9	0.27	120	540	50	●
TY53510M	7TCG009380R0001	to 254	to 10.0	889	35	8.2	0.32	175	780	50	–
TY54513M	7TCG009380R0003	to 330	to 13.0	1143	45	8.2	0.32	175	780	50	–

* Add "-9" for items certified to MS3367.

Some approvals may not be applicable to all product codes. Contact your Sales Office for approval limitations.

For mounting bases, see pages 72–92.

Tooling



ERG50

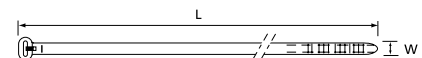
For use with 0.09" to 0.19" wide (18 to 50 lb) cable ties. See page 100.



ERG120

For use with 0.19" to 0.30" wide (50 to 120 lb) cable ties. See page 100.

Dimensions



Ty-Rap® high performance cable ties

Polyamide 6.6 cable ties — Natural (continued)

Polyamide 6.6 cable ties — Natural



Product code	GID No.	Bundle ø from ... to		Length L		Width W		Min. tensile strength		Pack quantity [pieces]	MIL spec.*
		[mm]	[in]	[mm]	[in]	[mm]	[in]	[lbs]	[N]		
Bulk pack size											
TY23M	7TAG009040R0009	1.5–16	0.1–0.6	92	3.6	2.3	0.09	18	80	1000	●
TY232M	7TAG009040R0005	1.5–51	0.1–2.0	203	8.0	2.3	0.09	18	80	1000	–
TY234M	7TAG009050R0000	1.5–102	0.1–4.0	356	14.0	2.3	0.09	18	80	1000	–
TY24M	7TAG009130R0007	2–35	0.1–1.4	140	5.5	3.6	0.14	40	180	1000	●
TY242M	7TAG009120R0000	2–51	0.1–2.0	208	8.2	3.6	0.14	30	135	1000	–
TY26M	7TAG009120R0002	2–76	0.1–3.0	284	11.2	3.6	0.14	30	135	1000	–
TY244M	7TCG009130R0005	2–102	0.1–4.0	368	14.5	3.6	0.14	30	135	1000	–
TY25M	7TAG009210R0042	3–48	0.1–1.9	186	7.3	4.8	0.19	50	220	1000	●
TY253M	7TAG009220R0001	3–78	0.1–3.0	290	11.4	4.8	0.19	50	220	1000	●
TY28M	7TAG009210R0048	3–102	0.1–4.0	361	14.2	4.8	0.19	50	220	1000	●
TY272M	7TAG009340R0002	6–51	0.2–2.0	223	8.8	6.9	0.27	120	540	500	–
TY27M	7TAG009320R0003	6–102	0.2–4.0	340	13.4	7.0	0.28	120	540	500	●
TY275M	7TAG009330R0009	6–127	0.2–5.0	457	18.0	7.0	0.28	120	540	500	–
TY277M	7TAG009340R0003	6–177	0.2–7.0	617	24.3	7.0	0.28	120	540	500	–
TY29M	7TAG009330R0012	6–229	0.2–9.0	771	30.4	6.9	0.27	120	540	500	●

* Add "-9" for items certified to MS3367.

Some approvals may not be applicable to all product codes. Contact your Sales Office for approval limitations.

For mounting bases, see pages 72–92.

Tooling



ERG50

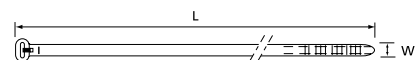
For use with 0.09" to 0.19" wide (18 to 50 lb) cable ties. See page 100.



ERG120

For use with 0.19" to 0.30" wide (50 to 120 lb) cable ties. See page 100.

Dimensions



Ty-Rap® high performance cable ties

Polyamide 6.6 cable ties — UV-resistant black



Characteristics

- UV-resistant
- Recommended for outdoor applications
- Several lengths and 6 typical widths with a tensile strength up to 175 lb to cover the most demanding applications
- Packaging: OEM bulk quantities in recyclable polythene bags
- Available in workbench boxes
- Mounting base available

Technical information

- Material — Molding: polyamide 6.6
- Material — Locking barb: 316 grade stainless steel
- Temperature range: -60 °C to +105 °C (-76 °F to 221 °F)
- Min. installation temp.: -30 °C (-22 °F)
- Color: Black
- Flammability rating: UL 94 V-2
- Other properties: UV-resistant, halogen free, silicone free

Polyamide 6.6 cable ties — UV-resistant black



Product code	GID No.	Bundle ø from ... to		Length L		Width W		Min. tensile strength		Pack quantity [pieces]	MIL spec.*
		[mm]	[in]	[mm]	[in]	[mm]	[in]	[lbs]	[N]		
Standard pack size											
TY523MX	7TAG009010R0015	1.5–16	0.1–0.6	92	3.6	2.3	0.09	18	80	100	
TY52315MX	7TAG009020R0051	1.5–32	0.1–1.3	178	7.0	2.3	0.09	18	80	100	–
TY5232MX	7TAG009010R0010	1.5–51	0.1–2.0	203	8.00	2.3	0.09	18	80	100	–
TY5234MX	7TAG009010R0011	1.5–102	0.1–4.0	356	14.0	2.3	0.09	18	80	100	–
TY524MX	7TAG009090R0007	2–35	0.1–1.4	140	5.5	3.6	0.14	40	180	100	
TY5242MX	7TAG009090R0003	2–51	0.1–2.0	208	8.2	3.6	0.14	30	130	100	–
TY526MX	7TAG009080R0002	2–76	0.1–3.0	284	11.2	3.6	0.14	30	130	100	–
TY5244MX	7TCG009090R0005	2–102	0.1–4.0	368	14.5	3.6	0.14	30	130	100	–
TY525MX	7TAG009170R0002	3–48	0.1–1.9	186	7.3	4.8	0.19	50	220	100	
TY5253MX	7TAG009180R0007	3–78	0.1–3.1	290	11.4	4.8	0.19	50	220	100	
TY528MX	7TAG009170R0004	3–102	0.1–4.0	361	14.2	4.8	0.19	50	220	100	
TY5272MX*	7TAG009290R0003	6–51	0.2–2.0	223	8.8	6.9	0.27	120	540	50	–
TY527MX*	7TAG009280R0002	6–102	0.2–4.0	340	13.4	7.0	0.28	120	540	50	
TY5275MX*	7TAG009280R0000	6–127	0.2–5.0	457	18.0	7.0	0.28	120	540	50	–
TY5277MX*	7TAG009290R0006	6–177	0.2–7.0	617	24.3	7.0	0.28	120	540	50	–
TY529MX*	7TAG009280R0004	6–229	0.2–9.0	771	30.4	6.9	0.27	120	540	50	
TY53510MX	7TCG009380R0002	to 254	to 10.0	889	35.0	8.2	0.32	175	780	50	–
TY54513MX	7TCG009380R0005	to 330	to 12.99	1143	45.0	8.2	0.32	175	780	50	

* Add "-0" for items certified to MS3367.

* Min. installation temp: -40 °C.

**120 lb UV black cable ties are -60 °C to +85 °C (-76 °F to 185 °F)

Some approvals may not be applicable to all product codes Contact your Sales Office for approval limitations.

For mounting bases, see pages 72–92.

Tooling



ERG50

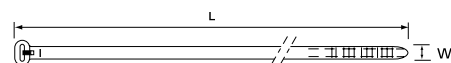
For use with 0.09" to 0.19" wide (18 to 50 lb) cable ties. See page 100.



ERG120

For use with 0.19" to 0.30" wide (50 to 120 lb) cable ties. See page 100.

Dimensions



Ty-Rap® high performance cable ties

Polyamide 6.6 cable ties — UV-resistant black (continued)

Polyamide 6.6 cable ties — UV-resistant black



Product code	GID No.	Bundle ø from ... to		Length L		Width W		Min. tensile strength		Pack quantity [pieces]	MIL spec.*
		[mm]	[in]	[mm]	[in]	[mm]	[in]	[lbs]	[N]		
Bulk pack size											
TY23MX	7TAG009040R0011	1.5–16	0.1–0.6	92	3.6	2.3	0.09	18	80	1000	●
TY232MX	7TAG009040R0007	1.5–51	0.1–2.0	203	8.0	2.3	0.09	18	80	1000	–
TY234MX	7TAG009050R0001	1.5–102	0.1–4.0	356	14.0	2.3	0.09	18	80	1000	–
TY24MX	7TAG009130R0009	2–35	0.1–1.4	140	5.5	3.6	0.14	40	180	1000	●
TY242MX	7TAG009130R0004	2–51	0.1–2.0	208	8.2	3.6	0.14	40	180	1000	–
TY26MX	7TAG009120R0004	2–76	0.1–3.0	284	11.2	3.6	0.14	30	130	1000	–
TY244MX	7TCG009130R0006	2–102	0.1–4.0	368	14.5	3.6	0.14	30	130	1000	–
TY25MX	7TAG009210R0045	3–48	0.1–1.9	186	7.3	4.8	0.19	50	220	1000	●
TY253MX	7TAG009220R0003	3–78	0.1–3.1	290	11.4	4.8	0.19	50	220	1000	●
TY28MX	7TAG009210R0050	3–102	0.1–4.0	361	14.2	4.8	0.19	50	220	1000	●
TY272MX**	7TAG009330R0007	6–51	0.2–2.0	223	8.8	6.9	0.27	120	540	500	–
TY27MX**	7TAG009320R0004	6–102	0.2–4.0	340	13.4	7.0	0.28	120	540	500	●
TY275MX**	7TAG009320R0001	6–127	0.2–5.0	457	18.0	7.0	0.28	120	540	500	–
TY277MX**	7TAG009330R0010	6–177	0.2–7.0	617	24.3	7.0	0.28	120	540	500	–
TY29MX**	7TAG009330R0014	6–229	0.2–9.0	771	30.4	6.9	0.27	120	540	500	–

* Add "-0" for items certified to MS3367.

** Min. installation temp : -40 °C

**120 lb UV black cable ties are -60 °C to +85 °C (-76 °F to 185 °F)

Some approvals may not be applicable to all product codes Contact your Sales Office for approval limitations.

For mounting bases, see pages 72–92.

Tooling



ERG50

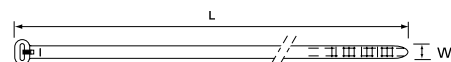
For use with 0.09" to 0.19" wide (18 to 50 lb) cable ties. See page 100.



ERG120

For use with 0.19" to 0.30" wide (50 to 120 lb) cable ties. See page 100.

Dimensions



Ty-Rap® high performance cable ties

Polyamide 6.6 cable ties — Workbench boxes



Characteristics

- An attractive packaging option for high volume manual assembly: 1000 pieces in a workbench box - easy to reach and time saving
- This user-friendly packaging allows quicker work and easier assembly since all cable ties packed with the heads up for better access.
- Mounting base available

Technical information

- Material — Molding: polyamide 6.6
- Material — Locking barb: 316 grade stainless steel
- Temperature range:
 - 60 °C to +85 °C (-76 °F to 185 °F) (natural),
 - 60 °C to +105 °C (-76 °F to 221 °F) (black)
- Min. installation temp.:
 - 20 °C (-4 °F) (natural),
 - 30 °C (-22 °F) (black)
- Color: Natural or UV-resistant black
- Flammability rating: UL 94 V-2
- Other properties: Halogen free, silicone free, UV-resistant (black)

Polyamide 6.6 cable ties — Workbench boxes



Product code	GID No.	Color	Bundle ø from ... to		Length L		Width W		Min. tensile strength		Quantity [pieces]	MIL spec.
			[mm]	[in]	[mm]	[in]	[mm]	[in]	[lbs]	[N]		
TYB23M	7TCG009450R0186	Natural	1.5–16	0.06–0.6	92	3.6	2.3	0.09	18	80	1000	●
TYB23MX	7TCG009960R0068	UV-resistant black	1.5–16	0.06–0.6	92	3.6	2.3	0.09	18	80	1000	●
TYHB23M	7TCG009460R0111	Natural	1.5–16	0.10–0.6	92	3.6	2.4	0.09	18	80	1000	—
TYB2315M	7TAG009050R0002	Natural	1.3–32	0.1–1.3	178	7.0	2.3	0.09	18	80	1000	—
TYB2315MX	7TAG009050R0003	UV-resistant black	1.5–32	0.1–1.3	178	7.0	2.3	0.09	18	80	1000	—
TYB232M	7TCG009020R0054	Natural	1.5–51	0.06–2.00	203	8.0	2.3	0.09	18	80	1000	—
TYB232MX	7TCG009020R0055	UV-resistant black	1.5–51	0.06–2.00	203	8.0	2.3	0.09	18	80	1000	—
TYB24M	7TCG009140R0019	Natural	2–35	0.08–1.4	140	5.5	3.6	0.14	40	180	1000	●
TYB24MX	7TCG009960R0069	UV-resistant black	2–35	0.08–1.4	140	5.5	3.6	0.14	40	180	1000	●
TYB25M	7TCG009450R0193	Natural	3–48	0.12–1.9	186	7.3	4.8	0.19	50	220	1000	●
TYB25MX	7TCG009450R0198	UV-resistant black	3–48	0.12–1.9	186	7.3	4.8	0.19	50	220	1000	●

Tooling



ERG50

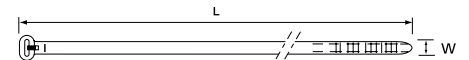
For use with .09" to 0.19" (18 to 50) cable ties. See page 100.



ERG120

For use with 0.19" to 0.30" (50 to 120) cable ties. See page 100.

Dimensions



Ty-Rap® high performance cable ties

Polyamide 6.6 cable ties — Colored



Characteristics

Ty-Rap cable ties in polyamide 6.6 are available in 10 different colors

- Several standard sizes and tensile strengths are normally in stock in bulk pack quantities
- Bulk packaging is 1000/500 pieces
- Mounting bases available

Technical information

- Material — Molding: polyamide 6.6
- Material — Locking barb: 316 grade stainless steel
- Temperature range: -60 °C to +85 °C (-76 °F to 185 °F)
- Min. installation temp.: -20 °C (-4 °F)
- Flammability rating: UL 94 V-2
- Other properties: Halogen free, silicone free



Polyamide 6.6 cable ties — Colored (stocked)

Product code — stocked	GID No.	Color	Bundle ø from ... to		Length L		Width W		Min. tensile strength [N/lb]	Pack quantity [pieces]	MIL spec.
			[mm]	[in]	[mm]	[in]	[mm]	[in]			
Standard pack size											
TY23M-1	7TAG009040R0009	Brown 	1.5–16	0.06–0.63	92	3.6	2.3	0.09	80/18	1000	
TY23M-2	7TAG009070R0096	Red 									
TY23M-3	7TAG009070R0097	Orange 									
TY23M-4	7TAG009070R0098	Yellow 									
TY23M-5	7TAG009070R0099	Green 									
TY23M-6	7TAG009070R0100	Blue 									
TY23M-7	7TAG009070R0101	Purple 									
TY23M-8	7TAG009070R0102	Gray 									
TY23M-9	7TAG009070R0103	Natural 									
TY23M-10	7TAG009070R0121	White 									
TY232M-1	7TAG009070R0083	Brown 	3–78	0.12–3.07	290	11.42	4.8	0.19	220/50	1000	
TY232M-2	7TAG009070R0084	Red 									
TY232M-3	7TAG009070R0085	Orange 									
TY232M-4	7TAG009070R0086	Yellow 									
TY232M-5	7TAG009070R0087	Green 									
TY232M-6	7TAG009070R0088	Blue 									
TY232M-7	7TAG009070R0089	Purple 									
TY232M-8	7TAG009070R0090	Gray 									
TY232M-9	7TAG009070R0091	Natural 									
TY232M-10**	7TAG009075R0002	White 									
TY24M-1	7TAG009160R0016	Brown 	2–35	0.08–1.38	140	5.51	3.6	0.14	180/40	1000	
TY24M-2	7TAG009160R0017	Red 									
TY24M-3	7TAG009160R0018	Orange 									
TY24M-4	7TAG009160R0019	Yellow 									
TY24M-5	7TAG009160R0020	Green 									
TY24M-6	7TAG009160R0021	Blue 									
TY24M-7	7TAG009160R0022	Purple 									
TY24M-8	7TAG009160R0023	Gray 									
TY24M-9	7TAG009160R0024	Natural 									
TY24M-10	7TAG009160R0046	White 									

Contact your Sales Office for additional colored cable tie sizes. For mounting bases, see pages 72–92.
 -10 white color is not mil spec.

Tooling

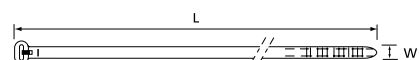


ERG50
 For use with 0.09" to 0.19" wide (18 to 50 lb) cable ties. See page 100.



ERG120
 For use with 0.19" to 0.30" wide (50 to 120 lb) cable ties. See page 100.

Dimensions



Ty-Rap® high performance cable ties

Polyamide 6.6 cable ties — Colored (continued)

Polyamide 6.6 cable ties — Colored (stocked)



Product code — stocked	GID No.	Color	Bundle ø from ... to		Length L		Width W		Min. tensile strength [N/lb]	Pack quantity [pieces]	MIL spec.
			[mm]	[in]	[mm]	[in]	[mm]	[in]			
TY25M-1	7TAG009270R0010	Brown	3–48	0.12–1.89	186	7.32	4.8	0.19	220/50	1000	●
TY25M-2	7TAG009270R0011	Red									
TY25M-3	7TAG009270R0013	Orange									
TY25M-4	7TAG009270R0014	Yellow									
TY25M-5	7TAG009270R0015	Green									
TY25M-6	7TAG009270R0016	Blue									
TY25M-7	7TAG009270R0017	Purple									
TY25M-8	7TAG009270R0018	Gray									
TY25M-9	7TAG009270R0019	Natural									
TY25M-10	7TAG009270R0052	White									
TY253M-1	7TAG009270R0002	Brown	3–78	0.12–3.07	290	11.42	4.8	0.19	220/50	1000	●
TY253M-2	7TAG009270R0003	Red									
TY253M-3	7TAG009270R0004	Orange									
TY253M-4	7TAG009270R0009	Yellow									
TY253M-5	7TAG009270R0005	Green									
TY253M-6	7TAG009270R0006	Blue									
TY253M-7	7TAG009270R0007	Purple									
TY253M-8	7TAG009270R0008	Gray									
TY253M-9	7TAG009000R0223	Natural									
TY253M-10	7TAG009270R0054	White									
TY28M-2	7TAG009270R0021	Red	3–102	0.12–4.02	361	14.21	4.8	0.19	220/50	1000	●
TY28M-3	7TAG009270R0022	Orange									
TY28M-4	7TAG009270R0023	Yellow									
TY28M-5	7TAG009270R0024	Green									
TY28M-6	7TAG009270R0025	Blue									
TY28M-7	7TAG009270R0026	Purple									
TY28M-8	7TAG009270R0027	Gray									
TY28M-9	7TAG009270R0028	Natural									
TY28M-10	7TAG009270R0051	White									
TY27M-1	7TAG009370R0022	Brown	6–102	0.24–4.02	340	13.39	7.0	0.28	540/120	500	●
TY27M-2	7TAG009370R0023	Red									
TY27M-3	7TAG009370R0024	Orange									
TY27M-4	7TAG009370R0025	Yellow									
TY27M-5	7TAG009370R0026	Green									
TY27M-6	7TAG009370R0027	Blue									
TY27M-7	7TAG009370R0028	Purple									
TY27M-8	7TAG009370R0029	Gray									
TY27M-9	7TAG009370R0030	Natural									

Contact your Sales Office for additional colored cable tie sizes. For mounting bases, see pages 72–92.
-10 white color is not mil spec.

Tooling



ERG50

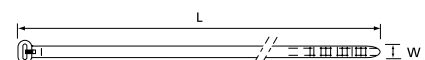
For use with 0.09" to 0.19" wide (18 to 50 lb) cable ties. See page 100.



ERG120

For use with 0.19" to 0.30" wide (50 to 120 lb) cable ties. See page 100.

Dimensions



Ty-Rap® high performance cable ties

Polyamide 6.6 cable ties — Variety packs



- Characteristics**
- Includes 10 each of 10 standard colors: black (UV-resistant), brown, red, orange, yellow, green, blue, purple, gray and white

Polyamide 6.6 cable ties — Variety packs



Product code — stocked	GID No.	Color	Bundle ø from ... to		Length L		Width W		Min. tensile strength [lb/N]	Pack quantity [pieces]
			[mm]	[in]	[mm]	[in]	[mm]	[in]		
Multi-color pack*										
Standard pack size										
TY523M-CLRS	7TAG009070R0122	Assorted	1.5–16	0.06–0.6	92	3.6	2.3	0.09	18/80	100
TY524M-CLRS	7TAG009160R0047		2–35	0.08–1.4	140	5.5	3.6	0.14	40/180	100
TY525M-CLRS	7TAG009270R0037		3–48	0.12–1.9	186	7.3	4.8	0.19	50/220	100
TY528M-CLRS	7TAG009270R0055		3–102	0.12–4.0	361	14.2	4.8	0.19	50/220	100

Contact your Sales Office for additional colored cable tie sizes.
For mounting bases, see pages 72–92.

Tooling

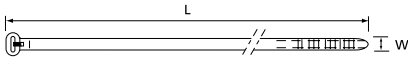


ERG50
For use with 0.09" to 0.19" wide (18 to 50 lb) cable ties. See page 100.



ERG120
For use with 0.19" to 0.30" wide (50 to 120 lb) cable ties. See page 100.

Dimensions



Ty-Rap® high performance cable ties

Polyamide 6.6 cable ties — Heat stabilized



Characteristics

- Heat stabilized for applications up to 105 °C (221 °F)

Technical information

- Material — Molding: polyamide 6.6
- Material — Locking barb: 316 grade stainless steel
- Temperature range: -60 °C to +105 °C (-76 °F to 221 °F)
- Min. installation temp.: -30 °C (-22 °F)
- Color: Natural (may have a greenish tint)
- Flammability rating: UL 94 V-2
- Other properties: Halogen free, silicone free

Polyamide 6.6 cable ties — Heat stabilized



Product code	GID No.	Bundle ø from ... to		Length L		Width W		Thickness		Min. tensile strength		Quantity [pieces]
		[mm]	[in]	[mm]	[in]	[mm]	[in]	[mm]	[in]	[lbs]	[N]	
TYH23M	7TCG009590R0002	1.5–16	0.1–0.6	92	3.6	2.4	0.09	1.0	0.04	18	80	1000
TYH232M	7TCG009590R0001	1.5–51	0.1–2.0	203	8.0	2.4	0.09	1.0	0.04	18	80	1000
TYH24M	7TAG009590R0004	2–35	0.1–1.4	140	5.5	3.6	0.14	1.1	0.04	40	180	1000
TYH242M*	7TCG009590R0003	2–51	0.1–2.0	208	8.2	3.6	0.14	1.1	0.04	40	180	1000
TYH26M	7TCG009590R0007	2–76	0.1–3.0	284	11.2	3.6	0.14	1.1	0.04	30	130	1000
TYH25M	7TAG009590R0006	3–48	0.1–1.9	186	7.3	4.7	0.19	1.3	0.05	50	220	1000
TYH253M*	7TAG009590R0005	3–76	0.1–3.0	290	11.4	4.8	0.19	1.2	0.05	50	220	1000
TYH28M	7TAG009590R0010	3–102	0.2–4.0	360	14.2	4.8	0.19	1.3	0.05	50	220	1000
TYH272M*	7TCG009590R0008	4.8–51	0.2–2.0	222	8.7	7.6	0.30	1.6	0.06	120	540	500
TYH27M	7TAG009590R0009	4.8–102	0.2–4.0	340	13.4	7.0	0.28	1.6	0.06	120	540	500
TYH29M*	7TCG009590R0011	4.8–229	0.2–9.0	771	30.4	6.9	0.27	1.5	0.06	120	540	500

* Not UL recognized.

For mounting bases, see pages 72–92.

Tooling



ERG50

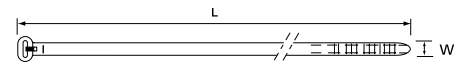
For use with 0.09" to 0.19" wide (18 to 50 lb) cable ties. See page 100.



ERG120

For use with 0.19" to 0.30" wide (50 to 120 lb) cable ties. See page 100.

Dimensions



Ty-Rap® high performance cable ties

Polyamide 4.6 cable ties — Extra high temperature



Characteristics

- Extreme continuous temperature rating: -40 °C to +150 °C (-40 °F to 302 °F) (in air)
- For high temperature environments in industrial, OEM, MRO and commercial construction applications such as: metal processing, paper mills, lighting, automotive

Technical information

- Material — Molding: polyamide 4.6
- Material — Locking barb: 316 grade stainless steel
- Temperature range: -40 °C to +150 °C (-40 °F to 302 °F)
- Min. installation temp.: -18 °C (-0.4 °F)
- Color: Light green
- Flammability rating: UL 94 V-2
- Other properties: Extra high temperature resistant, halogen free, silicon free

Polyamide 4.6 cable ties — Extra high temperature



Product code	GID No.	Bundle ø from ... to		Length L		Width W		Thickness		Min. tensile strength [lb/N]	Quantity [pieces]
		[mm]	[in]	[mm]	[in]	[mm]	[in]	[mm]	[in]		
TYHT23M	7TAG009590R0012	2-20	0.1-0.8	95	3.7	2.3	0.09	0.91	0.04	18/80	1000
TYHT24M	7TAG009590R0013	2-29	0.1-1.1	143	5.6	3.6	0.14	1.07	0.42	40/180	1000
TYHT25M	7TAG009590R0014	5-45	0.2-1.8	192	7.6	4.8	0.19	1.22	0.05	50/220	1000
TYHT28M	7TAG009590R0016	5-102	0.2-4.0	367	14.5	4.8	0.19	1.27	0.05	50/220	1000
TYHT27M	7TAG009590R0015	5-89	0.2-3.5	349	13.7	6.9	0.27	1.60	0.02	120/540	500
TYHT277M	7TAG009000R0326	6-177	0.2-7.0	617	24.3	7.0	0.28	1.60	0.02	120/540	500

For mounting bases, see pages 72-92.

Tooling



ERG50

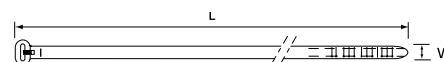
For use with 0.09" to 0.19" wide (18 to 50 lb) cable ties. See page 100.



ERG120*

For use with 0.19" to 0.30" wide (50 to 120 lb) cable ties. See page 100.

Dimensions



Ty-Rap® high performance cable ties

Polyamide 6.6 cable ties — Flame retardant



Characteristics

- Flame retardant — ideal for use in locations where low flammability and low smoke are needed, such as public transport, tunnels, etc.
- Mounting base available

Technical information

- Material — Molding: polyamide 6.6
- Material — Locking barb: 316 grade stainless steel
- Temperature range: -20 °C to +65 °C (-4 °F to 149 °F)
- Min. installation temp.: -0 °C (32 °F)
- Color: White
- Flammability rating: UL 94 V-0
- Other properties: Halogen free, silicone free

Polyamide 6.6 cable ties — Flame retardant



Product code	GID No.	Bundle ø from ... to		Length L		Width W		Thickness		Min. tensile strength		Quantity [pieces]
		[mm]	[in]	[mm]	[in]	[mm]	[in]	[mm]	[in]	[lbs]	[N]	
TY23MFR	7TAG009570R0002	1.5–16	0.1–0.6	92	3.6	2.4	0.09	1.0	0.04	18	80	1000
TY232MFR	7TAG009570R0000	1.5–51	0.1–2.0	203	8.0	2.4	0.09	1.0	0.04	18	80	1000
TY24MFR	7TAG009570R0003	2–35	0.1–1.4	140	5.5	3.6	0.14	1.1	0.04	30	135	1000
TY25MFR	7TAG009570R0004	3–48	0.1–1.9	186	7.6	4.6	0.18	1.1	0.04	50	220	1000
TY28MFR	7TAG009570R0007	3–102	0.1–4.0	360	14.2	4.6	0.18	1.1	0.04	40	180	500
TY27MFR	7TAG009570R0006	6–95	0.2–3.7	335	13.5	7.6	0.30	1.6	0.06	120	540	500
TY272MFR	7TAG009570R0005	4.8– 51	0.2–2.0	223	8.8	7.0	0.28	1.6	0.06	120	540	500

For mounting bases, see pages 72–92.

Tooling



ERG50

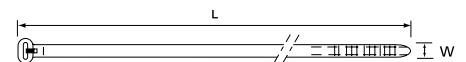
For use with 0.09" to 0.19" wide (18 to 50 lb) cable ties. See page 100.



ERG120

For use with 0.19" to 0.30" wide (50 to 120 lb) cable ties. See page 100.

Dimensions



Ty-Rap® high performance cable ties for railways

Polyamide 6.6 cable ties — EN 45545-2 certified



Technical Information — UV-resistant

- Material - Molding: polyamide 6.6
- Material - Locking barb: 316 grade stainless steel
- Temperature range: -60 °C to +105 °C (-76 °F to 221 °F)
- Color: Black
- Flammability rating: UL 94 V-2
- Tested according to EN 45545-2
- Mounting base available for railway (RW)

Technical Information — Flame retardant

- Material — Molding: Polyamide 6.6
- Material — Locking barb: 316 grade stainless steel
- Temperature range: -20 °C to +65 °C (-4 °F to 149 °F)
- Min. installation temp.: 0 °C (32F)
- Color: White
- Flammability rating: UL 94 V-0
- Certified to EN 45545-2: HL3

Polyamide 6.6 cable ties — UV-resistant black



Product code	GID No.	Bundle ø from ... to		Length L		Width W		Min. tensile strength [lb/N]	Pack quantity [pieces]
		[mm]	[in]	[mm]	[in]	[mm]	[in]		
TY23MX-RW	7TCG009040R0015	1.5–22	0.1–0.9	92	3.6	2.4	0.09	18/80	1000
TY232MX-RW	7TCG009040R0014	1.5–51	0.1–2.0	203	8.00	2.4	0.09	18/80	1000
TY234MX-RW	7TAG009050R0005	1.5–102	0.1–4.0	356	14.0	2.4	0.09	18/80	1000
TY24MX-RW	7TCG009130R0010	2–35	0.1–1.4	140	5.5	3.6	0.14	40/180	1000
TY242MX-RW	7TCG009130R0011	2–51	0.1–2.0	208	8.2	3.6	0.14	40/180	1000
TY26MX-RW	7TCG009120R0006	2–76	0.1–3.0	284	11.2	3.6	0.14	30/130	1000
TY244MX-RW	7TCG009130R0012	2–102	0.1–4.0	368	14.5	3.6	0.14	30/130	1000
TY25MX-RW	7TCG009210R0085	3–48	0.1–1.9	186	7.3	4.8	0.19	50/220	1000
TY253MX-RW	7TCG009220R0011	3–78	0.1–3.1	290	11.4	4.8	0.19	50/220	1000
TY28MX-RW	7TCG009210R0086	3–102	0.1–4.0	361	14.2	4.8	0.19	50/220	1000
TYB271MX-RW	7TCG009450R0226	6–31	0.1–1.3	150	7.6	7.6	0.30	120/540	500
TY272MX-RW*	7TAG009330R0008	6–51	0.2–2.0	223	8.8	6.9	0.27	120/540	500
TY277MX-RW*	7TAG009340R0003	6–177	0.2–7.0	617	24.3	7.0	0.28	120/540	500
TY27MX-RW*	7TAG009320R0006	6–102	0.2–4.0	340	13.5	6.9	0.27	120/540	500
TY29MX-RW*	7TCG009330R0012	6–229	0.2–9.0	771	30.4	8.2	0.32	120/540	500

Polyamide 6.6 cable ties — Flame-retardant white

Product code	GID No.	Bundle ø from ... to		Length L		Width W		Min. tensile strength [N/lb]	Pack quantity [pieces]
		[mm]	[in]	[mm]	[in]	[mm]	[in]		
TY23MFR-RW	7TCG009570R0008	1.5–16	0.1–0.6	92	3.6	2.4	0.09	18/80	1000
TY232MFR-RW	7TCG009570R0013	1.5–51	0.1–2.0	203	8.0	2.4	0.09	18/80	1000
TY24MFR-RW	7TCG009570R0009	2–35	0.1–1.4	140	5.5	3.6	0.14	40/180	1000
TY25MFR-RW	7TCG009570R0010	3–48	0.1–1.9	186	7.3	4.8	0.19	50/220	1000
TY28MFR-RW	7TCG009570R0011	3–102	0.1–4.0	360	14.2	4.8	0.19	50/220	500
TY27MFR-RW	7TCG009570R0012	6–95	0.2–3.7	340	13.5	7.0	0.28	120/540	100

Description of materials and properties: see pages 10–18
For mounting bases, see pages 72–92.

Tooling



ERG50

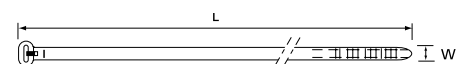
For use with 0.09" to 0.19" wide (18 to 50 lb) cable ties. See page 100.



ERG120

For use with 0.19" to 0.30" wide (50 to 120 lb) cable ties. See page 100.

Dimensions



Ty-Rap® high performance cable ties

Fluoropolymer cable ties — ECTFE



Characteristics

- Outstanding performance of flame resistance and low smoke density when burned
- Recommended for applications where smoke generation is a concern, such as plenum areas
- Extreme resistance to UV degradation

Technical information

- Material — Molding: Fluoropolymer ECTFE
- Material — Locking barb: 316 grade stainless steel
- Temperature range: -60 °C to +160 °C (-76 °F to 320 °F)
- Min. installation temp.: -60 °C (-76 °F)
- Color: Maroon
- Flammability rating: UL 94 V-0
- Other properties: low smoke

Fluoropolymer cable ties — ECTFE



Product code	GID No.	Bundle ø from ... to		Length L		Width W		Min. tensile strength [lb/N]	Quantity [pieces]
		[mm]	[in]	[mm]	[in]	[mm]	[in]		
Standard pack size									
TYV523M	7TAG009610R0001	1.5–22	0.1–0.9	92	3.6	2.3	0.09	18/80	100
TYV525M	7TAG009610R0002	3.0–48	0.1–1.9	192	7.5	4.7	0.19	50/220	100
Bulk pack size									
TYV23M	7TAG009000R0330	1.5–22	0.1–0.9	92	3.6	2.3	0.09	18/80	1000
TYV25M	7TAG009610R0000	3.0–48	0.1–1.9	192	7.5	4.7	0.19	50/220	1000

For mounting bases, see pages 72–92.

Tooling

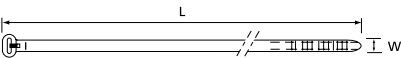


ERG50
For use with 0.09" to 0.19" wide (18 to 50 lb) cable ties. See page 100.



ERG120
For use with 0.19" to 0.30" wide (50 to 120 lb) cable ties. See page 100.

Dimensions



Ty-Rap® high performance cable ties

Fluoropolymer cable ties — ETFE



Characteristics

- ETFE Fluoropolymer
- Resistant to chemicals and to radiation
- No outgassing prevents contamination of sensitive areas in a vacuum, zero gravity or radioactive environments
- Typical applications include: nuclear, power plants, space industry, etc.
- Extreme resistance to UV degradation

Technical information

- Material — Molding: Fluoropolymer ETFE
- Material — Locking barb: 316 grade stainless steel
- Temperature range: -45 °C to +150 °C (-49 °F to 302 °F)
- Min. installation temp.: -20 °C (-4 °F)
- Color: Aquamarine
- Flammability rating: UL 94 V-0
- Other properties: Silicone free, inert to most solvents and chemicals, hydrolytically stable, radiation resistant, non-outgassing



Fluoropolymer cable ties — ETFE

Product code	GID No.	Bundle ø from ... to		Length L		Width W		Min. tensile strength [lb/N]	Quantity [pieces]
		[mm]	[in]	[mm]	[in]	[mm]	[in]		
Standard pack size									
TYZ523M	7TAG009620R0006	1.5–22	0.1–0.9	92	3.6	2.3	0.09	18/80	100
TYZ525M	7TAG009620R0007	3–48	0.1–1.9	186	7.3	4.3	0.17	50/220	100
TYZ528M	7TAG009620R0009	3–102	0.1–4.0	360	14.8	4.4	0.17	50/220	100
TYZ527M*	7TAG009620R0008	6–95	0.2–3.7	340	13.4	6.8	0.27	120/540	50
Bulk pack size									
TYZ23M	7TAG009620R0000	1.5–22	0.1–0.9	92	3.6	2.3	0.09	18/80	1000
TYZ25M	7TAG009620R0002	3–48	0.1–1.9	186	7.3	4.3	0.17	50/220	1000
TYZ28M	7TAG009620R0005	3–102	0.1–4.0	360	14.8	4.4	0.17	50/220	500
TYZ27M*	7TAG009620R0004	6–95	0.2–3.7	340	13.4	6.8	0.27	120/540	100

* Not on EC Declaration.

For mounting bases, see pages 72–92.

Tooling



ERG50

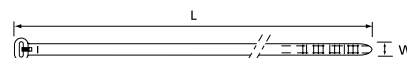
For use with 0.09" to 0.19" wide (18 to 50 lb) cable ties. See page 100.



ERG120

For use with 0.19" to 0.30" wide (50 to 120 lb) cable ties. See page 100.

Dimensions



Ty-Rap® high performance cable ties

Polypropylene cable ties — Chemical and weather resistant



- Characteristics**
- Polypropylene weather resistant
 - Increased resistance to chemicals
 - Resistant against inorganic acids, polyhydric alcohols, neutral and basic salts
 - Mounting base available

- Technical information**
- Material — Molding: Polypropylene
 - Material — Locking barb: 316 grade stainless steel
 - Temperature range: -60 °C to +76 °C (-76 °F to 185 °F)
 - Color: Black
 - Flammability rating: UL 94 HB
 - Other properties: UV-resistant, halogen free, silicone free

Polypropylene cable ties — Chemical and weather resistant

Product code	GID No.	Bundle ø from ... to		Length L		Width W		Min. tensile strength [lb/N]	Quantity [pieces]
		[mm]	[in]	[mm]	[in]	[mm]	[in]		
TYP23MX	7TAG009600R0000	2–16	0.1–0.6	92	3.6	2.4	0.09	18/80	1000
TYP25MX	7TAG009600R0001	3.5–45	0.1–1.7	186	7.3	4.8	0.19	40/180	1000
TYP28MX	7TAG009600R0003	3.5–102	0.1–4.0	360	14.2	4.8	0.19	40/180	1000
TYP27MX	7TAG009600R0002	6–90	0.2–3.5	340	13.5	7.0	0.28	60/270	500

For mounting bases, see pages 72–92.

Tooling

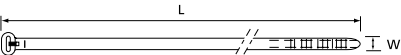


ERG50
For use with 0.09" to 0.19" wide (18 to 50 lb) cable ties. See page 100.



ERG120
For use with 0.19" to 0.30" wide (50 to 120 lb) cable ties. See page 100.

Dimensions



Ty-Rap® high performance cable ties

Polyamide 12 cable ties — UV-resistant



- Characteristics**
- Polyamide 12 UV-resistant
 - Remains flexible in cold and dry environments
 - Ages better and has a better chemical resistance than Polyamide 6.6

- Technical information**
- Material — Molding: Polyamide 12
 - Material — Locking barb: 316 grade stainless steel
 - Temperature range: -40 °C to +105 °C (-40 °F to 221 °F)
 - Color: Black
 - Flammability rating: UL 94 V-2
 - Other properties: UV-resistant, halogen free, silicone free

Polyamide 12 cable ties — UV-resistant

Product code	GID No.	Bundle ø from ... to		Length L		Width W		Min. tensile strength [lb/N]	Quantity [pieces]
		[mm]	[in]	[mm]	[in]	[mm]	[in]		
Standard pack size									
TYC525MX	7TCG009580R0006	3.5–45	0.1–1.8	186	7.3	4.70	0.19	40/180	100
TYC527MX	7TCG009580R0007	6–89	0.2–3.5	343	0.1	7.62	0.30	90/400	50
Bulk pack size									
TYC25MX	7TCG009580R0001	3.5–45	0.1–1.8	186	7.3	4.70	0.19	40/180	1000
TYC28MX	7TCG009580R0004	3.5–102	0.1–4.0	360	14.2	4.70	0.19	40/180	1000
TYC272MX	7TCG009580R0002	6–51	0.2–2.0	222	8.7	7.60	0.30	85/380	500
TYC27MX	7TCG009580R0003	6–89	0.2–3.5	343	0.1	7.62	0.30	85/380	500
TYC29MX	7TCG009580R0005	6–229	0.2–9.0	771	30.4	7.60	0.30	90/400	500

For mounting bases, see pages 72–92.

Tooling

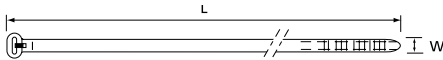


ERG50
For use with 0.09" to 0.19" wide (18 to 50 lb) cable ties. See page 100.



ERG120
For use with 0.19" to 0.30" wide (50 to 120 lb) cable ties. See page 100.

Dimensions



Ty-Rap® high performance cable ties

TyGenic™ Nylon antimicrobial detectable cable ties



Characteristics

TyGenic™ antimicrobial detectable cable ties are the industry's first two-piece cable that's both antimicrobial and detectable. Recommended for applications in food, pharmaceutical and other contamination-sensitive industries using detection systems.

- Molded from an FDA-compliant proprietary nylon resin blend containing an EPA-registered antimicrobial additive plus detectable particles.
- Effective against a broad spectrum of micro-organisms, including various bacteria, viruses, protozoans and fungi, such as mold and mildew
- Detectable by x-ray, visual and metal detection systems
- Dark blue color for an easy visual detection
- Antimicrobial mounting bases available

Technical information

- Material — Molding: Polyamide 6.6
- Material — Locking barb: 316 grade stainless steel
- Temperature range: -40 °C to +85 °C (-40 °F to 185 °F)
- Color: Blue
- Flammability rating: UL 94 HB (Polyamide 6.6)
- Other properties: Halogen free, silicone free

TyGenic™ antimicrobial detectable cable ties



Product code	GID No.	Color	Material	Bundle ø from ... to		Length L		Width W		Min. tensile strength		Quantity [pieces]
				[mm]	[in]	[mm]	[in]	[mm]	[in]	[lbs]	[N]	
Antimicrobial detectable Polyamide 6.6												
TY523M-NDT	7TAG009660R0029	Blue 	Polyamide 6.6	2–16	0.1–0.6	92	3.6	2.4	0.09	11	48	100
TY525M-NDT	7TAG009660R0032	Blue 	Polyamide 6.6	3.5–45	0.1–1.8	186	7.2	4.8	0.19	50	220	100
TY528M-NDT	7TAG009660R0036	Blue 	Polyamide 6.6	3.5–102	0.1–4	360	14.2	4.8	0.19	50	220	100
TY527M-NDT	7TAG009660R0034	Blue 	Polyamide 6.6	6–90	0.2–3.5	340	13.5	7.0	0.28	120	540	50

For mounting bases, see pages 72–92.

Tooling



ERG50

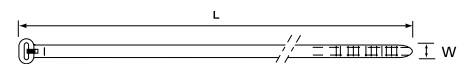
For use with 0.09" to 0.19" wide (18 to 50 lb) cable ties. See page 100.



ERG120

For use with 0.19" to 0.30" wide (50 to 120 lb) cable ties. See page 100.

Dimensions





Ty-Rap® high performance cable ties

TyGenic™ Polypropylene antimicrobial detectable cable ties



Characteristics

Ty-Rap® detectable cable ties from ABB incorporate a unique compound (patent pending) detectable by X-ray equipment and metal detectors and visual inspection equipment. Recommended for applications in food, pharmaceutical and other contamination-sensitive industries using detection systems.

- Engineered to provide the highest detectability in metal detectors by size
- Specially formulated metallic particles provide high reflection in X-ray equipment
- Bright blue color for an easy visual detection
- Antimicrobial mounting bases available

Technical information

- Material — Molding: Polypropylene
- Material — Locking barb: 316 grade stainless steel
- Temperature range: -40 °C to +85 °C (-40 °F to 185 °F)
- Color: Bright blue
- Flammability rating: UL94 HB
- Other properties: Halogen free, silicone free

Detectable cable ties

Product code	GID No.	Color	Material	Bundle ø from ... to		Length L		Width W		Min. tensile strength		Quantity [pieces]	
				[mm]	[in]	[mm]	[in]	[mm]	[in]	[lbs]	[N]		
Detectable polypropylene													
TY523M-PDT	7TAG009660R0030	Blue 	Polypropylene	2–16	0.1–0.6	92	3.62	2.4	0.09	11	50	100	
TY525M-PDT	7TAG009660R0033	Blue 	Polypropylene	3.5–45	0.1–1.8	186	7.3	4.8	0.19	30	135	100	
TY528M-PDT	7TAG009660R0037	Blue 	Polypropylene	3.5–102	0.1–4	360	14.2	4.8	0.19	30	135	100	
TY527M-PDT	7TAG009660R0035	Blue 	Polypropylene	6–90	0.2–3.5	340	13.4	7.0	0.28	60	267	50	

For mounting bases, see pages 72–92.

Tooling

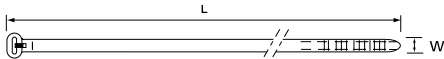


ERG50
For use with 0.09" to 0.19" wide (18 to 50 lb) cable ties. See page 100.



ERG120
For use with 0.19" to 0.30" wide (50 to 120 lb) cable ties. See page 100.

Dimensions



Heavy-duty cable strap and accessories

Strap on reel and reel kits, double locking heads and pre-assembled Deltec® cable ties



Characteristics

- Designed to perform a minimum of 20 years outdoors
- Double locking head with corrosion-resistant locking barbs in copper alloy
- No sharp edges: operator friendly, cable friendly!
- Easy to install, low installation costs
- Extremely robust ties, with high tensile strength (250 lb) after fastening
- Available in pre-cut and pre-assembled lengths, or on reels with separate heads for total flexibility
- Choice of specific spacers and accessories
- Month and year of manufacture stamped into strap material

Technical information

- Material — Strap and head: Toughened weatherable acetal
- Material — Locking barb: Marine-grade, corrosion-resistant copper alloy
- Temperature range: -65 °C to +90 °C (-85 °F to 194 °F)
- Flammability rating: UL 94 HB
- Color: Black
- Other properties: UV-resistant, halogen free, superior resistance to moisture and salt environments

Strap on reel and reel kits

Product code	GID No.	Length per reel L		Width W		Min. tensile strength [lb/N]	Included heads [pieces]	Reel quantity [pieces]
		[m]	[ft]	[mm]	[in]			
TYD-50R	7TAA159090R0005	15.2	50	12.7	0.5	250/1112	0	1
CSS-50R	7TAA159100R0005	15.2	50	12.7	0.5	250/1112	0	10
696-41794	7TAA159090R0000	304.8	1000	12.7	0.5	250/1112	0	1
CSS-5K	7TAA159120R0000	15.2	50	-	-	-	150	5
CSS-10K	7TAA159130R0001	15.2	50	-	-	-	300	5

Note: the recommended maximum continuous static loading for the Deltec® straps is 90 N per strap.

For best results, suggested spacing is 35 to 40cm. It is the responsibility of the user to determine if their installation provides sufficient load support.

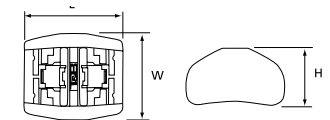
Reel kits (CSS-5K / CSS-10K) to be assembled with Deltec® strap on reel.

Double locking heads

Product code	GID No.	Length L		Width W		Height [mm]	Quantity [pieces]
		[mm]	[in]	[mm]	[in]		
CSS-LH	7TAA159150R0000	21.6	0.9	19.1	0.75	12.6	25/500
TYD-LH	7TAA159090R0006	21.6	0.9	19.1	0.75	12.6	25/125
696-41795	7TAA159090R0001	21.6	0.9	19.1	0.75	12.6	500

To be assembled with Deltec® strap on reel

Dimensions



Pre-assembled Deltec® cable ties

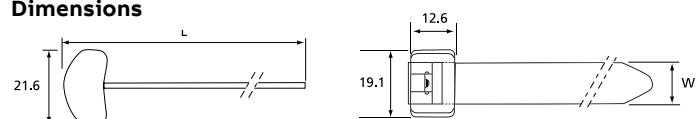
Product code	GID No.	Max. bundle dia.		Length L		Width W		Min. tensile strength [lb/N]	Quantity [pieces]
		[mm]	[in]	[mm]	[in]	[mm]	[in]		
CSS-100	7TAA159110R0000	76	3	254	10	12.7	0.5	250/1112	25
CSS-135	7TAA159090R0003	89	3.5	343	13.5	12.7	0.5	250/1112	25
CSS-160	7TAA159170R0000	102	4	406	16	12.7	0.5	250/1112	50
CSS-270	7TAA159080R0000	203	8	686	27	12.7	0.5	250/1112	10

Tooling



WT3D
For use with 0.5" wide (250 lb) cable ties. See page 102.

Dimensions



Heavy-duty cable strap and accessories

Cable spacers and base and hanger



Characteristics

- Stackable height in 12.7 mm (0.5") increments, for any desired spacing and all cable sizes — no need to stock multiple sizes of individual height spacers
- Designed to retain strap on each side and cradle the cable, providing restricted movement of spacer and preventing damage to cable
- Suitable for coaxial cables
- Can be used for parallel routing or for perpendicular cables

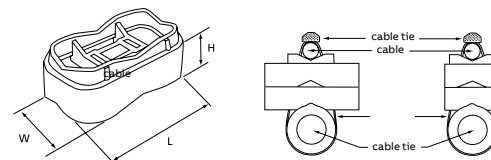
Technical information

- Material: Weather-resistant polypropylene
- Temperature range: -40 °C to +85 °C (-40 °F to 185 °F)
- Flammability rating: UL 94 HB
- Color: Black
- Other properties: UV-resistant, halogen free

Cable spacers

Product code	GID No.	Length L		Width W		Height		Quantity [pieces]
		[mm]	[in]	[mm]	[in]	[mm]	[in]	
TCP5255	7TAA159090R0004	53.3	2.10	30.5	1.20	12.7	0.5	25
TCP360	7TAA159160R0000	53.3	2.10	30.5	1.20	12.7	0.5	100
CSS-360	7TAA159140R0000	53.3	2.10	30.5	1.20	12.7	0.5	250

Dimensions



Characteristics

- To secure cables to all types of surfaces

Technical information

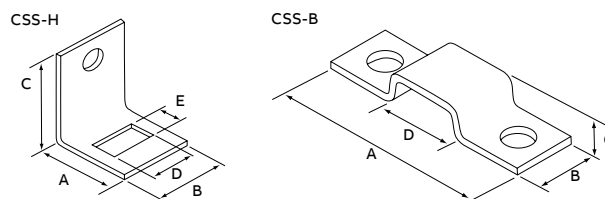
- Material: Zinc plated steel
- Color: Metallic

Base and hanger

Product code	GID No.	Dimensions										Mounting hole diameter		Quantity [pieces]
		A		B		C		D		E		[mm]	[in]	
CSS-B	7TAA159220R0000	48.4	1.91	14.3	0.56	7.1	0.28	15.1	0.59	5.6	0.22	6.7 (2x)	0.26 (x2)	50
CSS-H	7TAA159180R0000	22.5	0.89	22.2	0.87	29.8	1.17	13.6	0.54	8.3	0.33	6.9	0.27	50

To be assembled with Deltec® strap on reel

Dimensions



Special ties

Releasable 2-piece lashing ties on reel with separate heads



Characteristics

- Heavy-duty lashing ties on reel with separate heads
- Also available in cut lengths with pre-assembled heads (see page 45)
- UV-resistant polypropylene, ideal for applications where chemical resistance is important (heads in weatherable rigid polyamide 6.6)
- Extremely robust (670N)
- Easily releasable and reusable
- 2 types of head:
 - type A: no mounting hole
 - type B: with mounting hole
- Typical applications: Indoor and outdoor fastening of cables, pipes and other parts in industry, shipbuilding, chemical industry
- Product code 696-41563: lashing tie on reel (300 m/984.25 ft), in weatherable polypropylene

- Product code 696-41562: separate head, type A (no mounting hole), weatherable polyamide 6.6 (200 pieces)
- Product code 696-41614: separate head, type B (with mounting hole), weatherable polyamide 6.6 (200 pieces), mounting hole: Ø 6.9 mm (0.27")
- Product code TY4100PX: kit containing 30 m (98.43 ft) of lashing tie on reel + 50 separate heads, type A

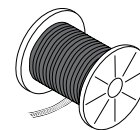
Technical information

- Material - Tie: Weatherable polypropylene
- Material - Head: Polyamide 6.6
- Temperature range:
 - Head: -40 °C to +85 °C (-40 °F to 185 °F)
 - Tie: -55 °C to +110 °C (-67 °F to 230 °F)
- Color: UV-resistant black
- Flammability rating: UL 94 V-2
- Other properties: UV-resistant, halogen free

Releasable 2-piece lashing ties on reel with separate heads

		Lashing tie, dimensions						Separate locking heads		Min. tensile strength of assembly [N]
Product code	GID No.	Length		Width		Thickness		Quantity [pieces]	Type	
		[m]	[ft]	[mm]	[in]	[mm]	[in]			
696-41563	7TAG009550R0013	300	1000	13.2	0.52	1.8	0.07	–	–	670
696-41562	7TAG009550R0012	–		–		–		200	Type A, no mounting hole	670
696-41614	7TAG009910R0018	–		–		–		200	Type B, with mounting hole	670
TY4100PX	7TCG009460R0099	15.2	50	13.2	0.52	1.8	0.07	50	Type A, no mounting hole	670

696-41563



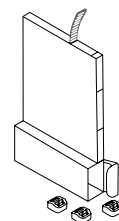
696-41562



696-41614



TY4100PX

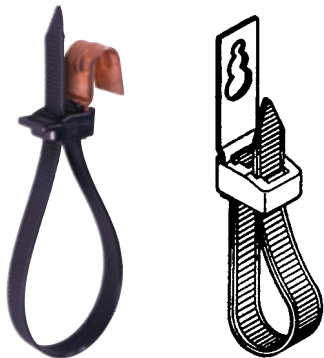


696-41563



Special ties

Releasable weather-resistant nylon 12 messenger hanger
and hanger strap and releasable heavy-duty lashing tie



Characteristics

- Resistant to UV light and chemicals, plus lower in moisture absorption
- Nylon 12 is a lower moisture-absorbing material than nylon 6.6 — making the effect of water on properties much less
- Temperature range: -40 °C to +80 °C (-40 °F to +176 °F)

Messenger ties

Product code	GID No.	Bundle ø from ... to		Length L		Width W		Hook material	Min. tensile strength		Quantity [pieces]
		[mm]	[in]	[mm]	[in]	[mm]	[in]		[lbs]	[N]	
TYM5412X	7TAG009550R0027	76.2	3	76.2	12	12.7	0.5	Bronze	200	889	50
TYM5418X	7TAG009550R0029	127	5	457	18	12.7	0.5	Bronze	200	889	25
TYM5423X	7TAG009550R0031	177	7	609	24	12.7	0.5	Bronze	200	889	25
TYM5412X-S	7TAG009550R0028	76.2	3	76.2	12	12.7	0.5	Stainless steel	200	889	50
TYM5418X-S	7TAG009550R0030	127	5	457	18	12.7	0.5	Stainless steel	200	889	25
TYM5423X-S	7TAG009550R0032	177	7	609	24	12.7	0.5	Stainless steel	200	889	25
TYM5430X-S	7TAG009000R0327	228	9	762	30	12.7	0.5	Stainless steel	200	889	25
TYM5436X-S	7TAG009550R0033	279	11	914	36	12.7	0.5	Stainless steel	200	889	25
Weather-resistant hanger strap (releasable)											
TY54407X	7TAG009550R0023	50	2	151	6.36	12.7	0.5	Steel	200	889	50

Characteristics

- Heavy-duty and made of weather-resistant nylon
- Temperature range: -40 °C to +80 °C (-40 °F to +176 °F)



Heavy duty lashing tie (releasable)

Product code	GID No.	Bundle ø from ... to		Length L		Width W		Hook material	Min. tensile strength		Quantity [pieces]
		[mm]	[in]	[mm]	[in]	[mm]	[in]		[lbs]	[N]	
TY5409	7TAG009550R0020	4.75	120.65	482	19	12.7	0.5	None	200	889	100

Special ties

Releasable 2-piece lashing ties, pre-assembled version



Characteristics

- Heavy-duty lashing ties, in cut lengths with pre-assembled heads
- Also available on reel with separate heads
- UV-resistant polypropylene, ideal for applications where chemical resistance is important (heads in weatherable rigid polyamide 6.6)
- Extremely robust (670 N)
- Easily releasable and reusable
- 2 types of head:
type A: no mounting hole
type B: with mounting hole
- Typical applications: Indoor and outdoor fastening of cables, pipes and other parts in industry, shipbuilding, chemical industry, etc

Technical information

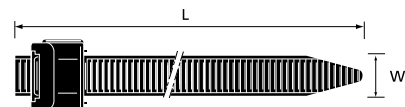
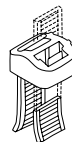
- Material — Tie: Weatherable polypropylene
- Material — Head: Polyamide 6.6
- Temperature range:
Head: -40 °C to +85 °C (-40 °F to 185 °F)
Tie: -55 °C to +110 °C (-67 °F to 230 °F)
- Color: UV-resistant black
- Flammability rating: UL 94 V-2
- Other properties: UV-resistant, halogen free

Releasable 2-piece lashing ties, pre-assembled version

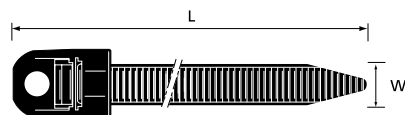
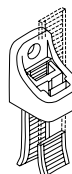
Product code	GID No.	Bundle ø from ... to		Diameter of mounting hole		Length L		Width W		Thickness		Min. tensile strength [lb]	Quantity [pieces]
		[mm]	[in]	[mm]	[in]	[mm]	[in]	[mm]	[in]	[mm]	[in]		
TY53418PX	7TAG009550R0019	45-127	1.77-5	6.9	0.27	457	18	13.2	0.52	1.9	0.07	150	25
TY5418PX	7TAG009550R0021	45-127	1.77-5	—	—	457	18	13.2	0.52	1.8	0.07	150	25
TY5424PX	7TAG009550R0022	10-178	0.4-7	—	—	610	24	13.2	0.52	1.8	0.07	150	25
TY5442PX	7TAG009550R0025	10-305	0.4-12	—	—	1067	42	13.2	0.52	1.8	0.07	150	10
TY5460PX	7TAG009550R0026	10-457	18	—	—	1524	60	13.2	0.52	1.8	0.07	150	10

Dimensions

TY54XXPX



TY53418PX



Special ties

Releasable cable ties



Characteristics

- For temporary but strong bundling, such as during control box wiring
- Very simple application
- Available in two lengths
- May be re-used many times
- No tooling necessary

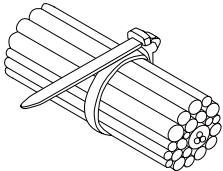
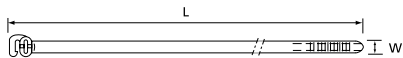
Technical information

- Material: Polyamide 6.6
- Temperature range: -40 °C to +85 °C (-40 °F to 185 °F)
- Color: Natural
- Flammability rating: UL 94 V-2
- Other properties: Halogen free, silicone free

Releasable cable ties

Product code	GID No.	Bundle ø from ... to		Length L		Width W		Min. tensile strength [lb/N]	Quantity [pieces]
		[mm]	[in]	[mm]	[in]	[mm]	[in]		
TYR505	7TAG009540R0001	10–44	0.4–1.7	190	7.5	4.7	0.19	50/220	100
TYR508	7TAG009540R0002	10–102	0.4–4	364	14.3	4.7	0.19	50/220	100

Dimensions



Pull end of tie through head.
Turn tie end back on itself
and insert into side of clip.
To open, release tie end
from clip and open tie.

Special ties with steel locking barb

Integrated mounting hole cable ties



Characteristics

- Can be mounted directly onto a support with screws, bolts or rivets
- Mounting and bundling in one maintenance-friendly assembly: mounts cables, tubes and part in all types and sizes of machines and installations
- Typical application: cable harness manufacture and pre- and end-mounting of bundles and parts
- Indoor and outdoor

Technical information

- Material — Molding: Polyamide 6.6
- Material — Locking barb: 316 grade stainless steel
- Temperature range: -40 °C to +85 °C (-40 °F to 185 °F)
- Color: Natural or UV-resistant black (see table)
- Flammability rating: UL 94 V-2
- Other properties: UV-resistant (black), halogen free, silicone free

Integrated mounting hole cable ties

Product code	GID No.	Color	Bundle ø from ... to		Diameter of mounting hole		Length L		Width W		Min. tensile strength [lb/N]	Quantity [pieces]
			[mm]	[in]	[mm]	[in]	[mm]	[in]	[mm]	[in]		
Standard pack size												
TY533M	7TAG009520R0062	Natural	2–16	0.1–0.6	3.0	0.12	102	4	2.3	0.09	18/80	100
TY533MX	7TAG009520R0063	Black	2–16	0.1–0.6	3.0	0.12	102	4	2.3	0.09	18/80	100
TY534M	7TAG009520R0064	Natural	2–29	0.1–1.1	4.4	0.17	151	5.9	3.5	0.14	40/180	100
TY534MX	7TAG009520R0065	Black	2–29	0.7–1.1	4.4	0.17	151	5.9	3.5	0.14	40/180	100
TY535M	7TAG009520R0068	Natural	3.5–45	0.1–1.8	5.1	0.20	199	7.8	4.7	0.19	50/220	100
TY535MX	7TAG009520R0069	Black	3.5–45	0.1–1.8	5.1	0.20	199	7.8	4.7	0.19	50/220	100
TY537M	7TAG009520R0070	Natural	6–90	0.2–3.5	6.7	0.26	356	14	7.7	0.30	120/540	50
TY537MX	7TAG009520R0071	Black	6–90	0.2–3.5	6.7	0.26	356	14	7.7	0.30	120/540	50
TYF535M	7TCG009520R0077	Natural	3.5–45	0.1–1.8	4.0	0.16	186	7.3	4.7	0.19	50/220	100
Bulk pack size												
TY33M	7TAG009520R0048	Natural	2–16	0.1–0.6	3.0	0.12	102	4	2.3	0.09	18/80	1000
TY33MX	7TAG009520R0048	Black	2–16	0.1–0.6	3.0	0.12	102	4	2.3	0.09	18/80	1000
TY34M	7TAG009520R0049	Natural	2–29	0.1–1.1	4.4	0.17	151	5.9	3.5	0.14	40/180	1000
TY34MX	7TAG009520R0050	Black	2–29	0.7–1.1	4.4	0.17	151	5.9	3.5	0.14	40/180	1000
TY635M	7TAG009520R0074	Natural	3.5–45	0.1–1.8	4.0	0.16	198	7.8	4.7	0.19	50/220	1000
TY635MX	7TAG009520R0075	Black	3.5–45	0.1–1.8	4.0	0.16	198	7.8	4.7	0.19	50/220	1000
TY35M	7TAG009520R0053	Natural	3.5–45	0.1–1.8	5.1	0.20	199	7.8	4.7	0.19	50/220	1000
TY35MX	7TAG009520R0056	Black	3.5–45	0.1–1.8	5.1	0.20	199	7.8	4.7	0.19	50/220	1000
TY1435M	7TAG009520R0045	Natural	3.5–45	0.1–1.8	6.7	0.26	198	7.8	4.7	0.19	50/220	1000
TY37M	7TAG009520R0057	Natural	6–90	0.2–3.5	6.7	0.26	356	14	7.7	0.30	120/540	500
TY37MX	7TAG009520R0060	Black	6–90	0.2–3.5	6.7	0.26	356	14	7.7	0.30	120/540	500
TYF35M	7TCG009520R0076	Natural	3.5–45	0.1–1.8	4.0	0.16	186	7.3	4.7	0.19	50/220	1000

Tooling



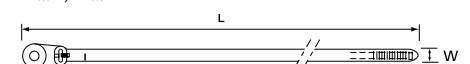
ERG50
For use with 0.09" to 0.19" wide (18 to 50 lb) cable ties. See page 100.



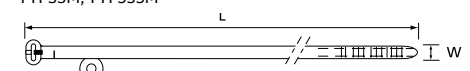
ERG120
For use with 0.19" to 0.28" wide (50 to 120 lb) cable ties. See page 100.

Dimensions

TY...M, TY...MX



TYF35M, TYF535M



Special ties with steel locking barb

Panel mounting cable ties



- Characteristics**
- Provides both fastening and clip-mounting
 - Fast pre- or on-site-assembly for a range of panel thickness up to 4.0 mm
 - Fast and secure installation

- Technical information**
- Material — Molding: Polyamide 6.6
 - Material — Locking barb: 316 grade stainless steel
 - Temperature range: -40 °C to +85 °C (-40 °F to 185 °F)
 - Color: Natural or UV-resistant black (see table)
 - Flammability rating: UL 94 V-2
 - Other properties: UV-resistant (black), halogen free, silicone free

Panel mounting cable ties

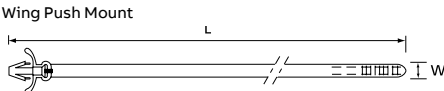
Product code	GID No.	Color	Bundle ø from ... to		Diameter of mounting hole		Length L		Width W		Min. tensile strength	For panel thicknesses from ... to		Quantity
			[mm]	[in]	[mm]	[in]	[mm]	[in]	[mm]	[in]		[mm]	[in]	
With wing														
TY54SM	7TCG009460R0104	Natural	2–32	0.1–1.3	4.5–5.2	0.18–0.20	150	5.9	3.5	0.14	30/130	0.1–2.5	0.04–0.10	1000
TY54SMX	7TCG009460R0105	UV-resistant black	2–32	0.1–1.3	4.5–5.2	0.18–0.20	150	5.9	3.5	0.14	30/130	0.1–2.5	0.04–0.10	1000
TY38M	7TAG009530R0005	Natural	3.5–44	0.1–1.7	6.4–6.7	0.25–0.26	200	7.9	4.7	0.19	50/220	1.0–4.0	0.04–0.16	1000
TY38MX	7TAG009530R0006	UV-resistant black	3.5–44	0.1–1.7	6.4–6.7	0.25–0.26	200	7.9	4.7	0.19	50/220	1.0–4.0	0.04–0.16	1000

Tooling



ERG50
For use with 0.09" to 0.19" wide (18 to 50 lb) cable ties. See page 100.

Dimensions



Special ties with steel locking barb

Blind mounting cable ties



Characteristics

- Suitable for hard-to-reach areas
- Fast hidden mounting on walls and vehicle chassis
- Twist off the locking head
- Pull the tie end through the fastening hole
- Place locking head on tie end
- Pull tight and cut off excess
- In the locked state, head neatly covers the mounting hole

Technical information

- Material — Molding: Polyamide 6.6
- Material — Locking barb: 316 grade stainless steel
- Temperature range: -40 °C to +85 °C (-40 °F to 185 °F)
- Color: Natural or UV-resistant black (see table)
- Flammability rating: UL 94 V-2
- Other properties: UV-resistant (black), halogen free, silicone free

Blind mounting cable ties



Product code	GID No.	Color	Bundle ø from ... to		Diameter of mounting hole		Length L		Width W		Min. tensile strength [lb/N]	Quantity [pieces]
			[mm]	[in]	[mm]	[in]	[mm]	[in]	[mm]	[in]		
Standard pack size												
TYG534M	7TCG009520R0080	Natural	2–32	0.1–1.3	6.4–7.0	0.25–0.28	160	6.3	3.6	0.14	40/180	100
TYG534MX	7TCG009520R0081	UV-resistant black	2–32	0.1–1.3	6.4–7.0	0.25–0.28	160	6.3	3.6	0.14	40/180	100
Bulk pack size												
TYG34M	7TCG009520R0078	Natural	2–32	0.1–1.3	6.4–7.0	0.25–0.28	160	6.3	3.6	0.14	40/180	1000
TYG34MX	7TCG009520R0079	UV-resistant black	2–32	0.1–1.3	6.4–7.0	0.25–0.28	160	6.3	3.6	0.14	40/180	1000

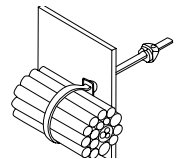
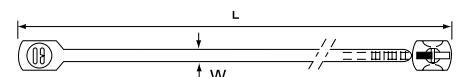
Tooling



ERG50

For use with 0.09" to 0.19" wide (18 to 50 lb) cable ties. See page 100.

Dimensions



Special ties with steel locking barb

Integrated peg / nail cable ties



Characteristics

- TY545MX, with integrated nail for mounting onto wood or similar materials
- TY544MX, with integrated peg for mounting onto porous concrete or similar materials (masonry)
- Very simple application

Technical information

- Material — Molding: Polyamide 6.6
- Material — Locking barb: 316 grade stainless steel
- Temperature range: -40 °C to +85 °C (-40 °F to 185 °F)
- Color: UV-resistant black
- Flammability rating: UL 94 V-2
- Other properties: UV-resistant, halogen free, silicone free

Integrated peg / nail cable ties

Product code	GID No.	Bundle ø from ... to		Diameter of mounting hole		Length L		Width W		Min. tensile strength	Mounting hole depth (min)		Quantity [pieces]
		[mm]	[in]	[mm]	[in]	[mm]	[in]	[mm]	[in]		[mm]	[in]	
TY544MX	7TAG009530R0008	3.5–45	0.1–1.8	6.4	0.25	200	7.9	4.6	0.18	50/220	25	0.98	50
TY545MX	7TAG009520R0073	4.7–38.1	0.2–1.5	–	–	200	7.9	4.7	0.19	50/220	–	–	50

Tooling

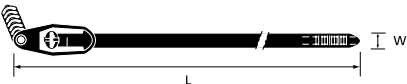


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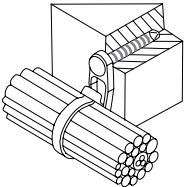
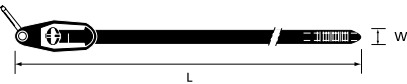
For use with 0.09" to 0.19" wide (18 to 50 lb) cable ties. See page 100.

Dimensions

TY544MX



TY545MX



Special ties with steel locking barb

Cable ties with identification tag



Characteristics

- Identification ties with incorporated label for durable marking and tying
- Label forms onto the bundle for types TY512M, TY51M and protrudes for ties TY532M and TY53M
- Series 51M is MIL (MS-3368-5) approved
- Trouble-free installation
- All edges are rounded for safety and ease of installation
- Available in bulk packaging (500/1000 pieces) or in small packaging (100 pieces)

Technical information

- Material — Molding: Polyamide 6.6
- Material — Locking barb: 316 grade stainless steel
- Temperature range: -60 °C to +85 °C (-76 °F to 185 °F)
- Min. installation temperature: -20 °C (-4 °F)
- Color: Natural
- Flammability rating: UL 94 V-2
- Other properties: Halogen free, silicone free
- MS3368 identification cable ties



Cable ties with identification tag

		Bundle ø from ... to		Length L		Width W		Thickness		Min. tensile strength	Label dimensions		Quantity	MIL Spec.
Product code	GID No.	[mm]	[in]	[mm]	[in]	[mm]	[in]				[mm]	[in]		
Standard pack size														
TY551M	7TAG009510R0065	10–16	0.4–0.6	92	3.62	2.4	0.1	1.0	0.04	18/80	25.4 x 7.9	1 x 0.31	100	●
TY5512M	7TAG009510R0064	10–51	0.4–2	210	8.27	2.4	0.1	1.0	0.04	18/80	25.4 x 7.9	1 x 0.31	100	–
TY553M	7TAG009510R0069	2–16	0.1–0.6	102	4.02	2.4	0.1	1.0	0.04	18/80	20.6 x 9.3	0.81 x 0.36	100	–
TY5532M	7TAG009510R0067	2–51	0.1–2	212	8.35	2.4	0.1	1.0	0.04	18/80	20.6 x 9.3	0.81 x 0.36	100	–
Bulk pack size														
TY51M*	7TAG009510R0046	10–16	0.4–0.6	92	3.62	2.4	0.1	1.0	0.04	18/80	25.4 x 7.9	1 x 0.31	500	●
TY512M*	7TAG009510R0044	10–51	0.4–2	210	8.27	2.4	0.1	1.0	0.04	18/80	25.4 x 7.9	1 x 0.31	1000	–
TY53M	7TAG009510R0052	2–16	0.1–0.6	102	4.02	2.4	0.1	1.0	0.04	18/80	20.6 x 9.3	0.81 x 0.36	500	–
TY532M	7TAG009510R0050	2–51	0.1–2	212	8.35	2.4	0.1	1.0	0.04	18/80	20.6 x 9.3	0.81 x 0.36	1000	–

*TY51M and TY512M are UL listed.

Tooling

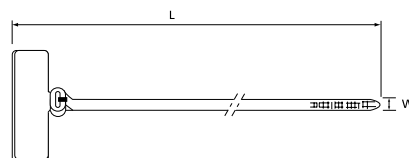


ERG50

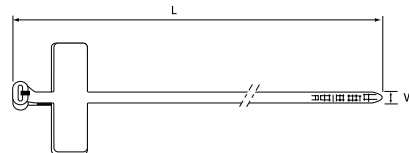
For use with 0.09" to 0.19" wide (18 to 50 lb) cable ties. See page 100.

Dimensions

TY53M, TY553M, TY532M, TY5532M

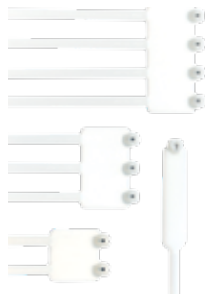


TY51M, TY551M, TY512M, TY5512M



Special ties with steel locking barb

Cable ties with identification tag



Characteristics

- Identification ties with incorporated label for durable marking and tying
- Label forms onto the bundle
- 5 different versions, up to 4 straps, in bulk and small packaging
- 4 versions (up to 3 straps) are MIL-specified
- Trouble-free installation
- Labeling of bundles up to 102 mm (4.02") diameter
- All edges are rounded and surfaces smoothed to ease installation
- Heat stamp available

Technical information

- Material — Molding: Polyamide 6.6
- Material — Locking barb: 316 grade stainless steel
- Temperature range: -60 °C to +85 °C (-76 °F to 185 °F)
- Color: Natural
- Approvals: MIL: MS-3368 -1, -2, -3, -4
- Flammability rating: UL 94 V-2
- Other properties: Halogen free, silicone free
- MS3368 identification cable ties

Cable ties with identification tag



Product code	GID No.	Bundle ø from ... to		Length L		Width W		Thickness		Min. tensile strength [lb/N]	Label dimensions		Quantity [pieces]	MIL spec.
		[mm]	[in]	[mm]	[in]	[mm]	[in]	[mm]	[in]		[mm]	[in]		
Standard pack size														
TY548M	7TAG009510R0063	19–102	0.8–4	360	14.17	4.8	0.2	1.1	0.04	50/220	13.1 x 57.2	0.52 x 2.25	100	●
TY546M	7TAG009510R0058	9.5–45	0.4–1.8	184	7.24	4.8	0.2	1.1	0.04	50/220	13.1 x 27.0	0.52 x 1.06	100	●
TY546MD	7TAG009510R0059	9.5–45	0.4–1.8	184	7.24	4.8	0.2	1.1	0.04	50/220 x 2	29.7 x 27.0	1.17 x 1.06	50	●
TY546MT	7TAG009510R0061	9.5–45	0.4–1.8	184	7.24	4.8	0.2	1.1	0.04	50/220 x 3	46.0 x 27.0	1.81 x 1.06	100	●
TY546MF	7TAG009510R0060	9.5–45	0.4–1.8	184	7.24	4.8	0.2	1.1	0.04	50/220 x 4	63.1 x 27.0	2.48 x 1.06	50	—
Bulk pack size														
TY48M*	7TAG009510R0039	19–102	0.8–4	360	14.17	4.8	0.2	1.1	0.04	50/220	13.1 x 57.2	0.52 x 2.25	1000	●
TY46M*	7TAG009510R0018	9.5–45	0.4–1.8	184	7.24	4.8	0.2	1.1	0.04	50/220	13.1 x 27.0	0.52 x 1.06	1000	●
TY46MD	7TAG009510R0025	9.5–45	0.4–1.8	184	7.24	4.8	0.2	1.1	0.04	50/220 x 2	29.7 x 27.0	1.17 x 1.06	500	●
TY46MT	7TAG009510R0033	9.5–45	0.4–1.8	184	7.24	4.8	0.2	1.1	0.04	50/220 x 3	46.0 x 27.0	1.81 x 1.06	500	●
TY46MF	7TAG009510R0031	9.5–45	0.4–1.8	184	7.24	4.8	0.2	1.1	0.04	50/220 x 4	63.1 x 27.0	2.48 x 1.06	250	—

* TY46M and TY48M are cURus certified.

Tooling



ERG50

For use with 0.09" to 0.19" wide (18 to 50 lb) cable ties. See page 100.

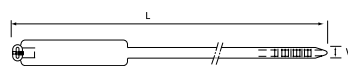


ERG120

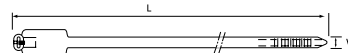
For use with 0.19" to 0.28" wide (50 to 120 lb) cable ties. See page 100.

Dimensions

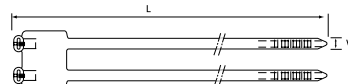
TY48M



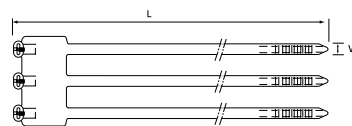
TY46M



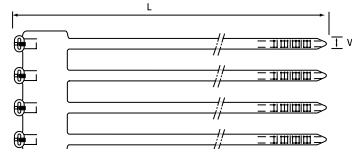
TY46MD

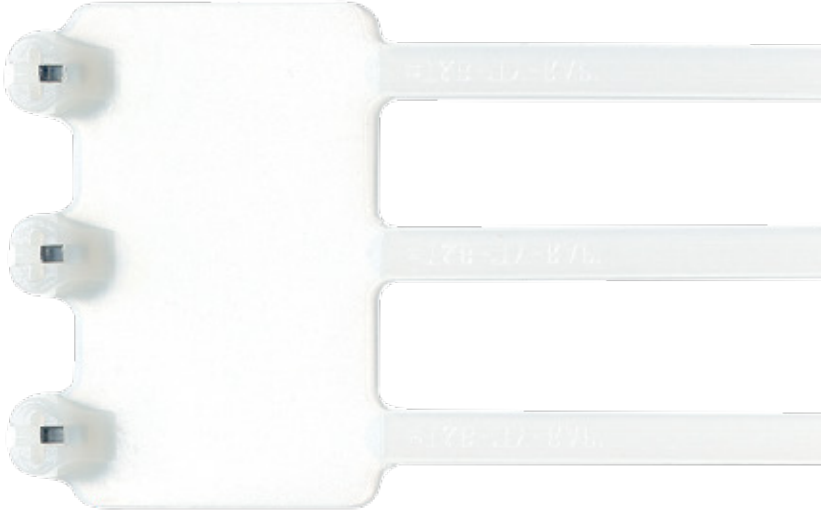
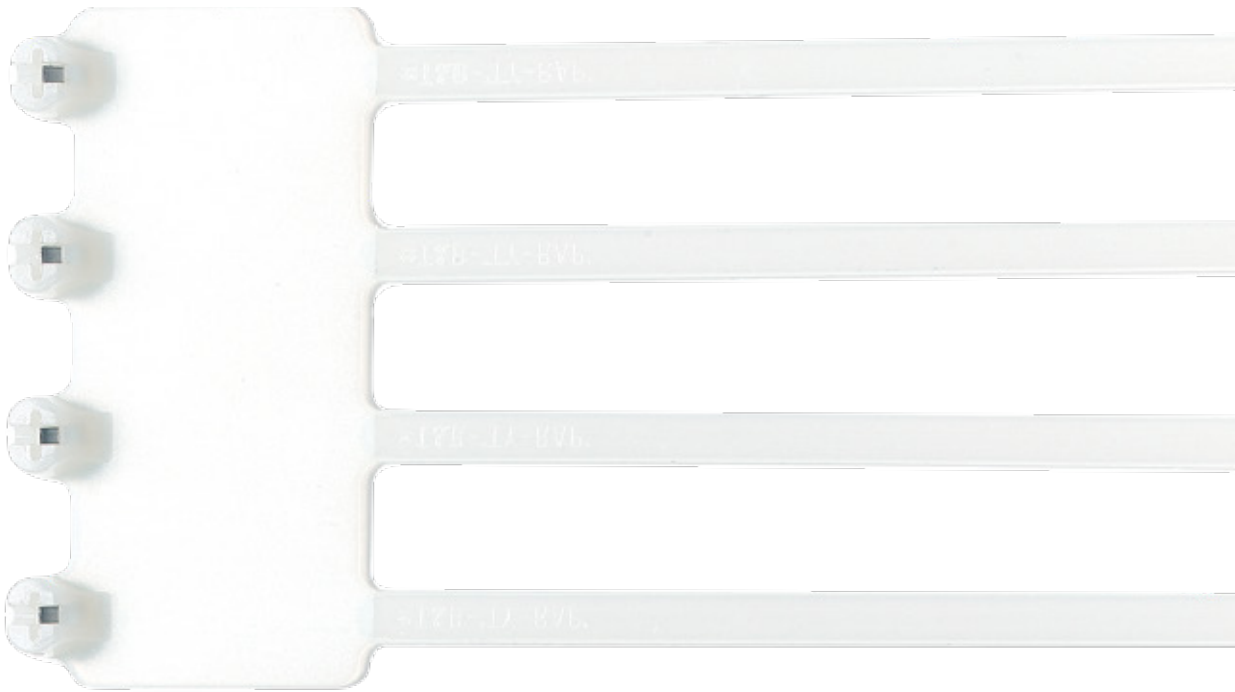


TY46MT



TY46MF







Mil-spec products

Certifications — SAE AS23190 Military certified cable ties

- MS3367 standard cable ties

MS3367 Standard cable ties

Military designator	Type	Color	Ty-Rap® bulk pack	
			Product code	GID no
MS3367-1-0	7" x 50 lb	UV Black	TY25MX-0	7TAG009210R0092
MS3367-1-9		Natural	TY25M-9	7TAG009270R0019
MS3367-1-*		*Various	TY25M-*	**
MS3367-2-0	14" x 50 lb	UV Black	TY28MX-0	7TAG009210R0093
MS3367-2-9		Natural	TY28M-9	7TAG009270R0028
MS3367-2-*		*Various	TY28M-*	**
MS3367-3-0	14" x 120 lb	UV Black	TY27MX-0	7TAG009320R0009
MS3367-3-9		Natural	TY27M-9	7TAG009370R0030
MS3367-3-*		*Various	TY27M-*	**
MS3367-4-0	4" x 18 lb	UV Black	TY23MX-0	7TAG009040R0021
MS3367-4-9		Natural	TY23M-9	7TAG009070R0103
MS3367-4-*		*Various	TY23M-*	**
MS3367-5-0	6" x 40 lb	UV Black	TY24MX-0	7TAG009120R0010
MS3367-5-9		Natural	TY24M-9	7TAG009160R0024
MS3367-5-*		*Various	TY24M-*	**
MS3367-6-0	30" x 120 lb	UV Black	TY29MX-0	7TAG009320R0008
MS3367-6-9		Natural	TY29M-9	7TCG009370R0039
MS3367-6-*		*Various	TY29M-*	**
MS3367-7-0	11" x 50 lb	UV Black	TY253MX-0	7TAG009210R0094
MS3367-7-9		Natural	TY253M-9	7TAG009000R0223
MS3367-7-*		*Various	TY253M-*	**

Approvals: MIL: MS-3367 -1, -2, -3, -4
* Enter color code for various colors.

Cable tie color code

1	Brown	
2	Red	
3	Orange	
4	Yellow	
5	Green	
6	Blue	
7	Purple	
8	Gray	
10	White	
X-0	Military black	
9	Military natural	



Mil-spec products

Certifications — SAE AS23190 Military certified cable ties



- MS3368 identification cable ties

MS3368 Identification cable ties

Military designator	Type	Color	Ty-Rap® bulk pack	
			Product code	GID no
MS3368-1-A		Natural	TY46M	7TAG009510R0018
MS3368-2-A		Natural	TY48M	7TAG009510R0039
MS3368-3-C		Natural	TY46MD	7TAG009510R0025
MS3368-4-D		Natural	TY46MT	7TAG009510R0033
MS3368-5-E		Natural	TY51M	7TAG009510R0046

Approvals: MIL: MS-3368 -1, -2, -3, -4

Ty-Met™ stainless steel cable ties

Stainless steel cable ties

Ty-Met™ stainless steel ties are the ultimate solution to install your cables in extreme conditions and hazardous areas, indoor and outdoor, such as the petrochemical and food processing industries, power stations, mining, shipbuilding, offshore and other aggressive environments.

Ty-Met™ stainless steel ties provide a high mechanical strength combined with chemical durability and temperature resistance.

They are available in several different types:

- Ball-lock type: quick and reliable self-locking mechanism
- Multi-Lok type: easy application and strong locking system
- Strap type: either pre-assembled or on reel with separate heads
- Band on reel with separate heads, for a cost-saving installation without waste

Ty-Met™ cable ties have international approvals such as UL, Germanischer Lloyd, Lloyd's Register and Det Norske Veritas.

All types are available in 316 grade (marine-grade) stainless steel for extra corrosion resistance.

Available in uncoated version (for high temperature applications) or in fully coated version with non-toxic, halogen free coating, for superior protection of cables and installer's hands and for improved insulation between dissimilar materials.

A range of dedicated hand tools completes the product offering.



Ty-Met™ the ultimate solution to install your cable ties

Ideal for extreme conditions, hazardous areas and aggressive environments.



Ty-Met™ stainless steel cable ties

Features and benefits

Ball-lock type, coated

Easy application and strong self-locking mechanism (steel ball), with low insertion force



Ball-lock type, uncoated

Easy application and strong self-locking mechanism (steel ball), with low insertion force



Ball-lock retained tension type

Wave-form spring crimp eliminates movement – even in high-vibration applications



Multi-Lok

Self-locking mechanism (pawl and ratchet)



Larger slot at the end,
allows the use of a
hook-type tool

Low profile, flat head
(no sharp edges), for easy
and safe installation

Uncoated or fully coated
with non-toxic, halogen
free polyester

Bands on reel with separate heads

Bands and separate heads are made of corrosion-resistant 316 grade stainless steel, for high mechanical and chemical durability



**Available in 5 widths up to
19.1 mm (0.75"),** to suit a wide
range of applications
25 m (82.02 ft) reels for a cost-
saving and customized
installation, around all sizes and
shapes of objects

**Bands are fully covered
with non-toxic, halogen -
free polypropylene**

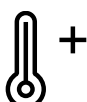
Dedicated heads
are easy to install



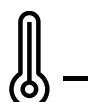
UV-resistant



Flame
retardant



Heat
resistant



Low
temperature
flexibility



Weather-
proof



Chemical
resistant



Radiation
resistant



Low
smoke



Detectable

Ty-Met™ stainless steel cable ties

Ball-lock type — Standard widths, fully coated



Characteristics

The ball-lock type stainless steel ties from ABB are self-locking and require no time-consuming crimping or folding operations.

- Strong self-locking mechanism (stainless steel ball) with low insertion force
- Fast, easy and reliable installation
- Standard widths (4.6 mm and 7.9 mm/0.18" and 0.31"), suitable for most applications, indoor and outdoor
- Corrosion-resistant 316 grade stainless steel (marine grade) for high mechanical and chemical durability
- Fully coated version with non-toxic, halogen-free polyester coating for superior protection of cables and installer's hands and for improved insulation between dissimilar materials

- Applications: installation of cables and pipes in extreme conditions and hazardous areas, such as: petrochemical and food processing industries, power stations, mining, shipbuilding, offshore and other aggressive environments

Technical information

- Material: 316 grade non-magnetic stainless steel
- UV-resistant coating
- Temperature range: -60 °C to +165 °C (-76 °F to 329 °F)
- Color: Black
- Extremely high flame and UV resistance

Ball-lock type — Fully coated, standard widths



Product code	GID No.	Max. bundle diameter		Length L		Width W		Min. tensile strength [lb/N]	Quantity [pieces]
		[mm]	[in]	[mm]	[in]	[mm]	[in]		
LS-4.6-200-C	77TAG009420R0001	50	2	200	7.8	4.6	0.18	175 (778)	100
LS-4.6-260-C	7TAG009410R0001	70	2.8	260	10.2	4.6	0.18	175 (778)	1000
LS-4.6-360-C	7TAG009420R0004	100	3.9	360	14.1	4.6	0.18	175 (778)	100
LS-4.6-520-C	7TAG009420R0007	150	5.9	520	20.4	4.6	0.18	175 (778)	1000
LS-4.6-680-C	7TAG009420R0010	200	7.9	680	26.8	4.6	0.18	175 (778)	100
LS-7.9-200-C	7TAG009420R0017	50	2	200	7.9	7.9	0.31	250 (1112)	50
LS-7.9-360-C	7TAG009410R0005	100	3.9	360	14.2	7.9	0.31	250 (1112)	50
LS-7.9-520-C	7TAG009420R0020	150	5.9	520	20.5	7.9	0.31	250 (1112)	50
LS-7.9-680-C	7TAG009420R0022	200	7.9	680	26.8	7.9	0.31	250 (1112)	500

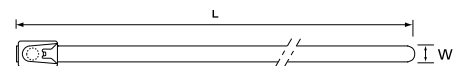
* Some approvals may not be applicable to all product codes. Contact your Sales Office for approval limitations.

Tooling



DAS250
For use with 175 to 250 lb cable ties. See page 103.

Dimensions



Ty-Met™ stainless steel cable ties

Ball-lock type — Standard widths, uncoated



Characteristics

The ball-lock type stainless steel ties from ABB are self-locking and require no time-consuming crimping or folding operations.

- Strong self-locking mechanism (stainless steel ball) with low insertion force
- Fast, easy and reliable installation
- Standard widths (4.6 mm and 7.9 mm/0.18" and 0.31"), suitable for most applications, indoor and outdoor
- Uncoated version, suitable for high temperature environments
- Two grades of non-magnetic stainless steel: 304 grade for standard applications and 316 grade (marine grade) for extra corrosion resistance

- Applications: installation of cables and pipes in extreme conditions and hazardous areas, such as: petrochemical and food processing industries, power stations, mining, shipbuilding, offshore and other aggressive environments

Technical information

- Material: A. 304 grade non-magnetic stainless steel; B. 316 grade non-magnetic stainless steel
- Temperature range: -60 °C to +300 °C (-76 °F to 572 °F)
- Color: Metallic
- Extremely high flame and UV resistance

Ball-lock type — Uncoated 316 stainless steel, 0.187" width



Product code	GID No.	Bundle ø from ... to		Length L		Width W		Min. tensile strength [lb/N]	Quantity [pieces]
		[mm]	[in]	[mm]	[in]	[mm]	[in]		
LS-4.6-200B	7TAG009420R0003	50	2	200	7.9	4.75	0.187	200 (890)	50
LS-4.6-260B	7TAG009410R0003	70	2.7	260	10.2	4.75	0.187	200 (890)	1000
LS-4.6-360B	7TAG009420R0006	102	4	360	14.2	4.75	0.187	200 (890)	50
LS-4.6-520B	7TAG009420R0009	152	6	520	20.5	4.75	0.187	200 (890)	50
LS-4.6-680B	7TAG009420R0012	203	8	680	26.8	4.75	0.187	200 (890)	1000
LS-4.6-840B	7TAG009420R0014	254	10	840	33.1	4.75	0.187	200 (890)	1000

* Some approvals may not be applicable to all product codes. Contact your Sales Office for approval limitations.

Ball-lock type — Uncoated 304 stainless steel, 0.187" width

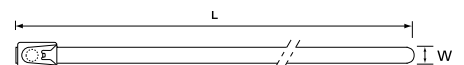
Product code	GID No.	Bundle ø from ... to		Length L		Width W		Min. tensile strength [lb/N]	Quantity [pieces]
		[mm]	[in]	[mm]	[in]	[mm]	[in]		
LS-4.6-200A	7TAG009410R0000	50	2	200	7.9	4.75	0.187	200(890n)	50
LS-4.6-260A	7TAG009410R0002	70	2.7	260	10.2	4.75	0.187	200(890n)	1000
LS-4.6-360A	7TAG009410R0004	102	4	360	14.2	4.75	0.187	200(890n)	50
LS-4.6-520A	7TAG009420R0008	152	6	520	20.5	4.75	0.187	200(890n)	1000
LS-4.6-680A	7TAG009420R0011	203	8	680	26.8	4.75	0.187	200(890n)	1000
LS-4.6-840A	7TAG009420R0013	254	10	840	33.1	4.75	0.187	200(890n)	1000

Tooling



DAS250
For use with 175 to 250 lb
cable ties. See page 103.

Dimensions



Ty-Met™ stainless steel cable ties

Ball-lock type — Standard widths, uncoated



Characteristics

The ball-lock type stainless steel ties from ABB are self-locking and require no time-consuming crimping or folding operations.

- Strong self-locking mechanism (stainless steel ball) with low insertion force
- Fast, easy and reliable installation
- Standard widths (4.6 mm and 7.9 mm/0.18" and 0.31"), suitable for most applications, indoor and outdoor
- Uncoated version suitable for high temperature environments
- Two grades of non-magnetic stainless steel: 304 grade for standard applications and 316 grade (marine grade) for extra corrosion resistance

- Applications: installation of cables and pipes in extreme conditions and hazardous areas, such as: petrochemical and food processing industries, power stations, mining, shipbuilding, offshore and other aggressive environments

Technical information

- Material: A. 304 grade non-magnetic stainless steel; B. 316 grade non-magnetic stainless steel
- Temperature range: -60 °C to +300 °C (-76 °F to 572 °F)
- Color: Metallic
- Extremely high flame and UV resistance

Ball-lock type — Uncoated 316 stainless steel, 0.305" width



Product code	GID No.	Bundle ø from ... to		Length L		Width W		Min. tensile strength [lb/N]	Quantity [pieces]
		[mm]	[in]	[mm]	[in]	[mm]	[in]		
LS-7.9-200B	7TAG009420R0019	50	2	200	7.9	7.75	0.305	450 (2002)	50
LS-7.9-360B	7TAG009410R0007	102	4	360	14.2	7.75	0.305	450 (2002)	50
LS-7.9-520B	7TAG009420R0021	152	6	520	20.5	7.75	0.305	450 (2002)	50
LS-7.9-680B	7TAG009000R0130	203	8	680	26.8	7.75	0.305	450 (2002)	500
LS-7.9-840B	7TAG009420R0025	254	10	840	33.1	7.75	0.305	450 (2002)	500
LS-7.9-1010B	7TAG009420R0016	304	12	1010	39.8	7.75	0.305	450 (2002)	50

* Some approvals may not be applicable to all product codes. Contact your Sales Office for approval limitations.

Ball-lock type — Uncoated 304 stainless steel, 0.305" width

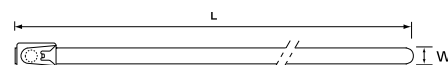
Product code	GID No.	Bundle ø from ... to		Length L		Width W		Min. tensile strength [lb/N]	Quantity [pieces]
		[mm]	[in]	[mm]	[in]	[mm]	[in]		
LS-7.9-200A	7TAG009420R0018	50	2	200	7.9	7.75	0.305	450(2002n)	50
LS-7.9-360A	7TAG009410R0006	70	2.7	360	14.2	7.75	0.305	450(2002n)	50
LS-7.9-520A	7TAG009410R0008	102	4	520	20.5	7.75	0.305	450(2002n)	50
LS-7.9-680A	7TAG009420R0023	152	6	680	26.8	7.75	0.305	450(2002n)	50
LS-7.9-840A	7TAG009420R0024	203	8	840	33.1	7.75	0.305	450(2002n)	50
LS-7.9-1010A	7TAG009420R0015	254	10	1010	39.8	7.75	0.305	450(2002n)	50

Tooling



DAS250
For use with 175 to 250 lb
cable ties. See page 103.

Dimensions



Ty-Met™ vibration-resistant stainless steel cable ties

Wave-form spring crimp eliminates movement — even in high-vibration applications



Ty-Met vibration-resistant stainless steel cable ties from ABB combine the convenience of a ball-lock fastening mechanism with a spring crimp that maintains tension after installation. This feature helps to ensure that the ties won't slide down the cable bundle after they're installed – making them the ideal choice for high-vibration applications.

Features

- Specially formed spring crimp creates consistent tension for firm positioning
- High wave-form crimp provides positive clamping in high-vibration applications
- Crimp channel offers a path for a trace wire with protection from crushing and shorts
- Ball-lock mechanism is easy to assemble and adjust for tension

- Ties available in both type 304 stainless steel and type 316 marine-grade stainless steel for extended life in highly corrosive environments
- Install with ABB DAS-250 application tool

Applications

- Shipbuilding
- Industrial
- Oil and gas
- Heavy equipment and trucking
- Wind power and solar energy

Specifications

- Material: type 304 or type 316 stainless steel
- Operating temperature: -60 °C to 300 °C (-76 °F to 572 °F)
- Certifications/compliances: UL/EN/CSA62275 type 2S rated for AH-1 plenum
- Minimum bundle diameter for all lengths: 26 mm (1")

Ty-Met stainless steel retained-tension ball-lock cable ties

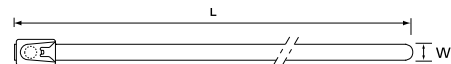
Product code	GID No.	Max. bundle dia.		Length L		Width W		Tensile strength		Std. pkg quantity [pieces]
		[mm]	[in]	[mm]	[in]	[mm]	[in]	[lb]	[N]	
Type 304 stainless steel										
RS-4.6-200A	7TAG009420R0137	51	2	200	7.9	4.6	0.18	200	890	100
RS-4.6-360A	7TAG009420R0141	102	4	360	14.2	4.6	0.18	200	890	50
RS-4.6-680A	7TAG009420R0145	203	8	680	26.8	4.6	0.18	200	890	50
RS-7.9-200A	7TAG009420R0147	51	2	200	7.9	7.9	0.31	450	2000	50
RS-7.9-360A	7TAG009420R0149	102	4	360	14.2	7.9	0.31	450	2000	50
Type 316 marine-grade stainless steel										
RS-4.6-200B	7TAG009420R0138	51	2	200	7.9	4.6	0.18	200	890	50
RS-4.6-260B	7TAG009420R0140	70	2.7	260	10.2	4.6	0.18	200	890	50
RS-4.6-520B	7TAG009420R0144	152	6	520	20.5	4.6	0.18	200	890	50
RS-4.6-680B	7TAG009420R0146	203	8	680	26.8	4.6	0.18	200	890	50
RS-7.9-200B	7TAG009420R0148	51	2	200	7.9	7.9	0.31	450	2000	50
RS-7.9-360B	7TAG009420R0150	102	4	360	14.2	7.9	0.31	450	2000	50
RS-7.9-520B	7TAG009420R0152	152	6	520	20.5	7.9	0.31	450	2000	50
RS-7.9-680B	7TAG009420R0154	203	8	680	26.8	7.9	0.31	450	2000	50

Tooling



DAS250
For use with 175 to 250 lb cable ties. See page 103.

Dimensions



Ty-Met™ stainless steel cable ties

Ball-lock type — Heavy-duty ties, uncoated



Characteristics

The ball-lock type stainless steel ties from ABB are self-locking and require no time-consuming crimping or folding operations.

- Strong self-locking mechanism (stainless steel ball) with low insertion force
- Fast, easy and reliable installation
- Heavy-duty version (12 mm and 16 mm (0.47" and 0.63") of width), for extreme applications, indoor and outdoor
- Uncoated version, suitable for high temperature environments
- Corrosion-resistant 316 grade stainless steel (marine grade) for high mechanical and chemical durability

- Applications: installation of cables and pipes in extreme conditions and hazardous areas, such as: petrochemical and food processing industries, power stations, mining, shipbuilding, offshore and other aggressive environments

Technical information

- Material: 316 grade non-magnetic stainless steel
- Temperature range: -40 °C to +300 °C (-40 °F to 572 °F)
- Color: Metallic
- Extremely high flame and UV resistance
- Strap thickness: 0.32 mm (0.01")

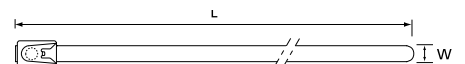
Ball-lock type — Heavy-duty ties, uncoated



Product code	GID No.	Bundle ø from ... to		Length L		Width W		Tensile strength		Quantity [pieces]
		[mm]	[in]	[mm]	[in]	[mm]	[in]	[lb]	[N]	
YLS-12-200B	7TCG009420R0038	20-25	0.8-1	100	3.9	12.0	0.47	250	1120	50
YLS-12-300B	7TCG009420R0040	20-25	0.8-1	125	4.9	12.0	0.47	250	1120	50
YLS-12-360B	7TCG009420R0042	20-35	0.8-1.4	150	5.9	12.0	0.47	250	1120	50
YLS-12-440B	7TCG009420R0044	20-50	0.8-1.97	200	7.9	12.0	0.47	250	1120	50
YLS-12-520B	7TCG009420R0046	20-83	0.8-3.3	300	11.8	12.0	0.47	250	1120	50
YLS-12-600B	7TCG009420R0048	20-100	0.8-3.9	360	14.2	12.0	0.47	250	1120	50
YLS-16-200B	7TCG009420R0064	20-20	0.8-0.8	100	3.9	16.0	0.63	900	4000	50
YLS-16-300B	7TCG009420R0066	20-22	0.8-0.9	125	4.9	16.0	0.63	900	4000	50
YLS-16-360B	7TCG009420R0068	20-35	0.8-1.4	150	5.9	16.0	0.63	900	4000	50
YLS-16-440B	7TCG009420R0070	20-50	0.8-2	200	7.9	16.0	0.63	900	4000	50
YLS-16-600B	7TCG009420R0074	20-100	0.8-3.9	360	14.2	16.0	0.63	900	4000	50
YLS-16-680B	7TCG009420R0076	20-150	0.8-5.9	520	20.7	16.0	0.63	900	4000	50

* Some approvals may not be applicable to all product codes.
Contact your Sales Office for approval limitations.

Dimensions



Ty-Met™ stainless steel cable ties

Ball-lock type — Heavy-duty ties, fully coated



Characteristics

The ball-lock type stainless steel ties from ABB are self-locking and require no time-consuming crimping or folding operations.

- Strong self-locking mechanism (stainless steel ball) with low insertion force
- Fast, easy and reliable installation
- Heavy-duty version (12 mm and 16 mm (0.47" and 0.63") of width), for extreme applications, indoor and outdoor
- Corrosion-resistant 316 grade stainless steel (marine grade) for high mechanical and chemical durability
- Fully coated version with non-toxic, halogen-free polyester coating, for a superior protection of cables and installer's hands and for improved insulation between dissimilar materials

- Applications: installation of cables and pipes in extreme conditions and hazardous areas, such as: petrochemical and food processing industries, power stations, mining, shipbuilding, offshore and other aggressive environments

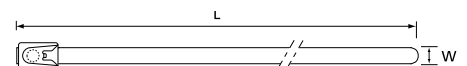
Technical information

- Material: 316 grade non-magnetic stainless steel
- Coating: Black polyester
- Temperature range: -40 °C to +165 °C (-40 °F to 329 °F)
- Extremely high flame and UV resistance
- Strap thickness: 0.42 mm (0.02")

Ball-lock type — Heavy-duty ties, fully coated

Product code	GID No.	Bundle ø from ... to		Length L		Width W		Tensile strength		Quantity [pieces]
		[mm]	[in]	[mm]	[in]	[mm]	[in]	[lb]	[N]	
YLS-12-200BC	7TCG009420R0039	20–25	0.8–1	100	3.9	12.0	0.47	300	1335	50
YLS-12-300BC	7TCG009420R0041	20–25	0.8–1	125	4.9	12.0	0.47	300	1335	50
YLS-12-360BC	7TCG009420R0043	20–35	0.8–1.4	150	5.9	12.0	0.47	300	1335	50
YLS-12-440BC	7TCG009420R0045	20–50	0.8–1.97	200	7.9	12.0	0.47	300	1335	50
YLS-12-520BC	7TCG009420R0047	20–83	0.8–3.3	300	11.8	12.0	0.47	300	1335	50
YLS-12-600BC	7TCG009420R0049	20–100	0.8–3.9	360	14.2	12.0	0.47	300	1335	50
YLS-12-680BC	7TCG009420R0051	20–150	0.8–5.9	520	20.7	12.0	0.47	300	1335	50
YLS-16-200BC	7TCG009420R0065	20–20	0.8–0.8	100	3.9	16.0	0.63	450	2002	50
YLS-16-300BC	7TCG009420R0067	20–22	0.8–0.9	125	4.9	16.0	0.63	450	2002	50
YLS-16-360BC	7TCG009420R0069	20–35	0.8–1.4	150	5.9	16.0	0.63	450	2002	50
YLS-16-440BC	7TCG009420R0071	20–50	0.8–2	200	7.9	16.0	0.63	450	2002	50
YLS-16-600BC	7TCG009420R0075	20–100	0.8–3.9	360	14.2	16.0	0.63	450	2002	50
YLS-16-680BC	7TCG009420R0077	20–150	0.8–5.9	520	20.7	16.0	0.63	450	2002	50

Dimensions



Ty-Met™ stainless steel cable ties

Multi-Lok type — Uncoated



Characteristics

The Multi-Lok type stainless steel ties from ABB have a flat, low-profile head for easy application.

- Strong self-locking mechanism (pawl and ratchet) requires no time-consuming crimping or folding operations
- Flat and low-profile head (no sharp edge) for easy installation
- Corrosion-resistant 316 grade stainless steel for high mechanical and chemical durability
- Uncoated version for high temperature applications
- Increased usable length (slots up to the end of the tail), allows larger bundle diameters with the same tie length

- Applications: installation of cables and pipes in extreme conditions and hazardous areas, indoor and outdoor, such as: petrochemical and food processing industries, power stations, mining, shipbuilding, offshore and other aggressive environments

Technical information

- Material: 316 grade stainless steel
- Coating: Uncoated
- Temperature range: -40 °C to +300 °C (-40 °F to 572 °F)
- Color: Metallic
- Extremely high flame and UV resistance

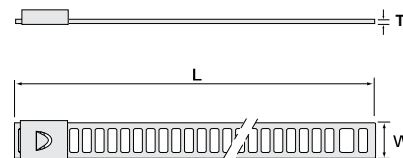
Multi-Lok type — Uncoated



Product code	GID No.	Max bundle diameter		Length L		Width W		Min. tensile strength [lb/N]	Quantity [pieces] Standard
		[mm]	[in]	[mm]	[in]	[mm]	[in]		
TYS6-280	7TAG009450R0206	33	1.3	150	5.9	7	0.28	250 (1112)	100
TYS9-280	7TAG009450R0208	57	2.24	225	8.8	7	0.28	250 (1112)	100
TYS12-280	7TAG009450R0200	81	3.19	300	11.8	7	0.28	250 (1112)	100
TYS18-280	7TAG009460R0114	129	5.08	450	17.7	7	0.28	250 (1112)	100
TYS24-280	7TAG009460R0117	180	7.09	610	24	7	0.28	250 (1112)	100
TYS6-470	7TAG009460R0122	33	1.3	150	5.9	12	0.47	250 (1112)	100
TYS9-470	7TAG009000R0328	57	2.24	225	8.8	12	0.47	250 (1112)	100
TYS12-470	7TAG009460R0113	81	3.19	300	11.8	12	0.47	250 (1112)	100
TYS18-470	7TAG009460R0115	129	5.08	450	17.7	12	0.47	250 (1112)	100
TYS24-470	7TAG009460R0119	180	7.09	610	24	12	0.47	250 (1112)	100

* Some approvals may not be applicable to all product codes.
Contact your Sales Office for approval limitations.

Dimensions



Ty-Met™ stainless steel cable ties

Multi-Lok type — Coated



Characteristics

The Multi-Lok type stainless steel ties from ABB have a flat, low-profile head for easy application.

- Strong self-locking mechanism (pawl and ratchet) requires no time-consuming crimping or folding operations
- Flat and low-profile head (no sharp edge) for easy installation
- Corrosion-resistant 316 grade stainless steel for high mechanical and chemical durability
- Fully coated version with non-toxic, halogen-free polyester coating for superior protection of cables and installer's hands and for improved insulation between dissimilar materials
- Increased usable length (slots up to the end of the tail) allows larger bundle diameters with the same tie length

- Applications: Installation of cables and pipes in extreme conditions and hazardous areas, indoor and outdoor, such as: petrochemical and food processing industries, power stations, mining, shipbuilding, offshore and other aggressive environments

Technical information

- Material: 316 grade stainless steel
- Coating: Polyester
- Temperature range: -60 °C to +165 °C (-75 °F to 329 °F)
- Color: Black
- Extremely high flame and UV resistance

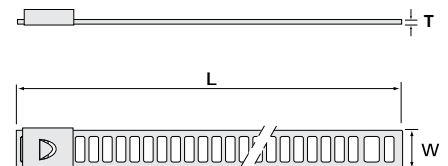
Multi-Lok type— Fully coated



Product code	GID No.	Max bundle diameter		Length L		Width W		Min. tensile strength [lb/N]	Quantity [pieces] Standard
		[mm]	[in]	[mm]	[in]	[mm]	[in]		
TYS6-280C	7TAG009450R0207	33	1.3	150	5.9	7	0.28	250 (1112)	100
TYS9-280C	7TAG009450R0209	57	2.24	225	8.8	7	0.28	250 (1112)	100
TYS12-280C	7TAG009450R0201	81	3.19	300	11.8	7	0.28	250 (1112)	100
TYS18-280C	7TAG009450R0204	129	5.08	450	17.7	7	0.28	250 (1112)	100
TYS24-280C	7TAG009460R0118	180	7.09	610	24	7	0.28	250 (1112)	100
TYS6-470C	7TAG009460R0123	33	1.3	150	5.9	12	0.47	250 (1112)	100
TYS9-470C	7TAG009000R0329	57	2.24	225	8.8	12	0.47	250 (1112)	100
TYS12-470C	7TAG009450R0202	81	3.19	300	11.8	12	0.47	250 (1112)	100
TYS18-470C	7TAG009450R0205	129	5.08	450	17.7	12	0.47	250 (1112)	100
TYS24-470C	7TAG009460R0120	180	7.09	610	24	12	0.47	250 (1112)	100

* Some approvals may not be applicable to all product codes.
Contact your Sales Office for approval limitations.

Dimensions



Special cable ties

Ty-Grip™ hook and loop fasteners



FO series loop ties are ideal for wrapping pre-determined bundle diameters due to the convenient slotted head.



FOL series buckle ties provide added strength and stability due to the high performance polyamide buckle.

Characteristics

These handy ties are very easy to release and re-use, making them ideal for applications where changes are anticipated or continuous access is required.

- Quick bundling and re-adjustable tension
- Ideal for specific applications in fiber optics, computer network wiring, telecom cables, etc.
- Available in buckle straps, overlap straps and headless strips to suit many applications
- Screw-mount and self-adhesive mounting bases provide multiple mounting options
- Multiple colors available for identifying specific bundles
- Additional colors available through special order. See sales representative for pricing, lead time and MOQ.

Technical information FO series

- Material hook side: Polyamide
- Material loop side: Low density polyethylene
- Temperature range: -20 °C to +104 °C (-4 °F to 219.2 °F)
- Color: Standard color: black
- Flammability rating: UL 94 HB*
- Peel-off strength: 0.8 N/cm

Technical information FOL series

- Material hook side: Polyamide
- Temperature range: -20 °C to +93 °C (-4 °F to 199.4 °F)
- Color: Standard color: black (see note after table)
- Flammability rating: UL 94 HB
- Peel-off strength: 0.8 N/cm
- Other properties: Halogen-free, silicone-free

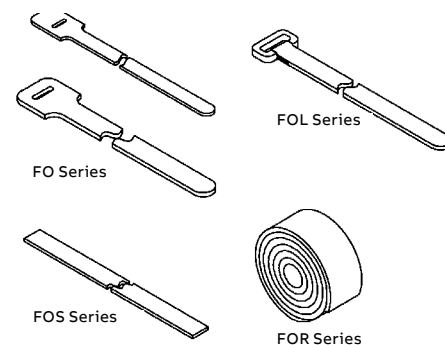
Ty-Grip™ hook and loop fasteners

Product code	GID No.	Maximum bundle diameter		Length L		Width W		Tensile strength [lb/N]	Quantity [pieces]
		[mm]	[in]	[mm]	[in]	[mm]	[in]		
FO series loop ties									
FO200-40-0	7TAG009630R0018	50.8	2	228.6	9	12.7	0.5	40/180	10
FO200-50-0	7TAG009630R0026	50.8	2	228.6	9	19.1	0.75	50/220	10
FO350-40-0	7TAG009630R0031	88.9	3.5	330.2	13	12.7	0.5	40/180	10
FO350-50-0	7TAG009630R0033	88.9	3.5	330.2	13	19.1	0.75	50/220	10
FO350-50-0-FR*	7TAG009000R0104	88.9	3.5	330.2	13	19.1	0.75	50/220	10
FOL series buckle ties									
FOL300-50-0	7TAG009630R0036	76.2	3	304.8	12	19.1	0.75	50/220	10
FOL500-50-0	7TAG009630R0040	127.0	5	457.2	10.13	19.1	0.75	50/220	10

* Suffix FR is flame-retardant version.

For use with mounting bases TC368 and TC368A. See page 74 for details.

Dimensions



Special cable ties

Ty-Grip™ hook and loop fasteners



FOS series strip ties are pre-cut, which makes bundling easy.



FOR series rolled hook and loop allows customers to conveniently cut pieces to desired lengths, eliminating waste.

Characteristics

These handy ties are very easy to release and re-use, making them ideal for applications where changes are anticipated or continuous access is required.

- Quick bundling and re-adjustable tension
- Hook and loop fasteners are gentle on cables, making them ideal for specific applications in fiber optics, computer network wiring, telecom cables, etc.
- Available in pre-cut strips and rolls for a variety of applications
- Screw-mount and self-adhesive mounting bases provide multiple mounting options

Technical information FOS and FOR series

- Material hook side: Polyamide
- Material loop side: Low density polyethylene
- Temperature range: -20 °C to +104 °C (-4 °F to 219.2 °F)
- Color: Standard color: black*
- Flammability rating: UL 94 HB
- Peel-off strength: 0.8 N/cm
- Other properties: Halogen-free, silicone-free

Ty-Grip™ hook and loop fasteners

Product code	GID no.	Maximum bundle diameter		Length L		Width W		Tensile strength [lb/N]	Quantity [pieces]
		[mm]	[in]	[mm]	[in]	[mm]	[in]		
FOS series strip ties									
FOS150-50-0	7TAG009630R0046	38.1	1.5	152.4	6	19.1	0.75	50/220	10
FOS320-50-0	7TAG009630R0048	81.3	3.20	304.8	12	19.1	0.75	50/220	10
FOS500-50-0	7TAG009630R0050	127.0	5	457.2	18	19.1	0.75	50/220	10
FOR series rolled strip									
FOR180-50-0	7TAG009630R0041	Various		4572.0	180	19.1	0.75	50/220	1
FOR180-50-0-FR**	7TAG009370R0000	Various		4572.0	180	19.1	0.75	50/220	1

* Standard color: black.

** FOR180-50-0-FR is made of flame-retardant material.

Contact your Sales Office for product availability in the other colors.



Ty-Rap® Accessories

To complement the range of premium cable ties, ABB has developed an extensive range of mounting bases, cable clamps and other fastening accessories, to provide a professional solution to the most demanding applications in cable management.

A wide range of material is available, from the classic polyamide 6.6 to the high performance fluoropolymer ETFE for applications in tough conditions.

To better suit each type of application, these products come in a wide selection of shapes and designs, and with different mounting methods, from self-adhesive to glue and/or screw mounting.

In particular, with the new high performance mounting bases (TC345 series), ABB is now offering a base that leads the industry with more features and better performance:

- New design and materials for increased performance
- Special adhesive formulation, specifically for nylon mounting bases

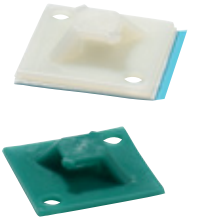
Typical applications include wiring in:

- Control boxes and machine control devices
- Office equipment and home appliances
- Military and medical equipment
- Lighting and electronic equipment



Mounting bases

2-way / 4-way entry



Characteristics

- Versatile design allows one mount to be used for heavy-duty ties up to 7.6 mm (0.30") width in a two-way style or tie up to 4.8 mm (0.19") width in a four-way style
- Choice of 3 materials: standard polyamide 6.6 (natural), UV-resistant polyamide 6.6 (black), polyamide 6.6 flame retardant and ETFE fluoropolymer (aquamarine)
- Supplied on either a rubber-based (synthetic polymer) closed-cell foam adhesive (installation: self-adhesive and/or screw) or without self-adhesive (installation: screw and/or 2-component glue*)

Technical information

TC347, TC347A, TC5347AR, TC347X and TC5347AX

- Material: Polyamide 6.6
- Temperature range: -40 °C to +85 °C (-40 °F to 185 °F)
(Self-adhesive version: 0 °C to +65 °C/32 °F to -85 °F)

- Flammability rating: UL 94 V-2
- Color: (see table)
- Other properties: UV-resistant (black), halogen-free, silicone-free

TC347FR (Flame-retardant)

- Material: Polyamide 6.6
- Temperature range: -40 °C to +85 °C (-40 °F to 185 °F)
- Flammability rating: UL 94 V-0
- Color: Natural
- Other properties: Halogen-free, silicone-free

TCZ347 (Fluoropolymer)

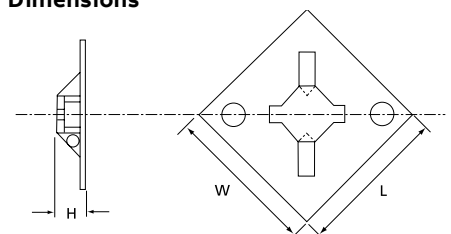
- Material: ETFE fluoropolymer
- Temperature range: -46 °C to +150 °C (-50.8 °F to 302 °F)
- Flammability rating: UL 94 V-0
- Color: Aquamarine
- Other properties: Silicone-free, inert to most solvents and chemicals, hydrolytically stable, radiation-resistant

4-way and 2-way entry

				Dimensions						For tie		Mounting		Quantity [pieces]
Product code	GID no.	Color	Mounting method	L		W		H		width up to		hole diameter		
				[mm]	[in]	[mm]	[in]	[mm]	[in]	[mm]	[in]	[mm]	[in]	
Standard pack size														
TC5347A	7TAG009800R0007	Natural	Self-adhesive/ screw	8.5	0.34	29.0	1.14	29.0	1.14	7.6	0.30	4.4 (2x)	0.17 (2x)	100
Bulk pack size														
TC347	7TAG009820R0050	Natural	Screw/glue*	7.8	0.31	28.6	1.13	28.6	1.13	7.6	0.30	4.4 (2x)	0.17 (2x)	1000
TC347X	7TAG009820R0054	UV-resistant black	Screw/glue*	7.8	0.31	28.6	1.13	28.6	1.13	7.6	0.30	4.4 (2x)	0.17 (2x)	1000
TC347FR	7TAG009820R0053	Natural/ flame retardant	Screw/glue*	7.8	0.31	28.6	1.13	28.6	1.13	7.6	0.30	4.4 (2x)	0.17 (2x)	1000
TCZ347	7TAG009820R0055	Aquamarine	Screw/glue*	7.8	0.31	28.6	1.13	28.6	1.13	7.6	0.30	4.4 (2x)	0.17 (2x)	500
TC347A	7TAG009820R0051	Natural	Self-adhesive/ screw	8.5	0.34	29.0	1.14	29.0	1.14	7.6	0.30	4.4 (2x)	0.17 (2x)	1000
TC5347AX	7TCG009800R0008	UV-resistant black	Self-adhesive/ screw	8.5	0.34	29.0	1.14	29.0	1.14	7.6	0.30	4.4 (2x)	0.17 (2x)	100

* Glue = Product code TC2PA (see page 14 for specifications).

Dimensions



Mounting bases

4-way entry — high performance



Characteristics

- Design and materials for increased performance
- Low-profile shape (height: 5.1 mm/0.20"), to save space and reduce the torque forces on the mounting base
- Ramped cable tie entries for easier insertion of the cable tie
- Longer struts (up to the edges of the base) for better adhesion
- Special adhesive formulation (specifically for nylon mounting bases) for high pull-off strength
- 2 kinds of self-adhesive material:
 - rubber-based, for immediate adhesion (15 minutes set-up time)
 - acrylic based, to allow for the possibility of repositioning the mounting base initially (set-up time: 24 to 72 hours)

- Two holes offer the option to use additional screws for even stronger installations when required
- Supplied on two-up lining, for easy removal of the lining

Technical information

- Material – molding: Polyamide or UV-resistant polyamide
- Material – self-adhesive: Rubber-based
- Temperature range: -60 °C to +85 °C (-76 °F to 185 °F)
Self-adhesive version: 0 °C to +70 °C (32 °F to 158 °F)
- Flammability rating: UL 94 V-2
- Colors: Natural or UV-resistant black (see table)
- Other properties: UV-resistant black, halogen-free, silicone-free

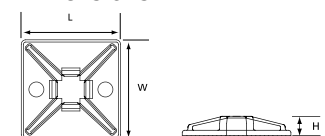


4-way entry — high performance

Product code	GID No.	Color	Mounting method	Dimensions						For tie		Mounting		Qty
				L		W		H		width up to		hole diameter		
				[mm]	[in]	[mm]	[in]	[mm]	[in]	[mm]	[in]	[mm]	[in]	
For tie width up to 5.2mm (0.20")														
Standard pack size														
TC5345A	7TAG009800R0002	Natural	Self-adhesive (rubber based)/screws	28.6	1.13	28.6	1.13	5.1	0.20	5.2	0.20	4.0	0.16	100
TC5345AX	7TAG009800R0005	UV Black	Self-adhesive (rubber based)/screws	28.6	1.13	28.6	1.13	5.1	0.20	5.2	0.20	4.0	0.16	100
Bulk pack size														
TC345	7TAG009820R0041	Natural	Glue*/screws	28.6	1.13	28.6	1.13	5.1	0.20	5.2	0.20	4.0	0.16	1000
TC345A	7TAG009800R0002	Natural	Self-adhesive (rubber based)/screws	28.6	1.13	28.6	1.13	5.1	0.20	5.2	0.20	4.0	0.16	1000
TC345AX	7TAG009800R0005	UV Black	Self-adhesive (rubber based)/screws	28.6	1.13	28.6	1.13	5.1	0.20	5.2	0.20	4.0	0.16	1000
For tie width up to 3.6 mm (0.14")														
Standard pack size														
TC5344	7TAG009790R0010	Natural	Screw/glue*	19.1	0.75	19.1	0.75	4.9	0.19	3.6	0.14	3.0	0.12	100
TC5344AR	7TCG009500R0039	Natural	Self-adhesive/screw	19.1	0.75	19.1	0.75	4.9	0.19	3.6	0.14	3.0	0.12	100
TC5344AX	7TCG009790R0012	UV Black	Self-adhesive/screw	19.1	0.75	19.1	0.75	4.9	0.19	3.6	0.14	3.0	0.12	100
Bulk pack size														
TC344	7TAG009810R0008	Natural	Screw/glue*	19.1	0.75	19.1	0.75	4.9	0.19	3.6	0.14	3.0	0.12	1000
TC344A	7TAG009810R0010	Natural	Self-adhesive/screw	19.1	0.75	19.1	0.75	4.9	0.19	3.6	0.14	3.0	0.12	1000
TC344AX	7TAG009810R0012	UV Black	Self-adhesive/screw	19.1	0.75	19.1	0.75	4.9	0.19	3.6	0.14	3.0	0.12	1000
For tie width up to 3.0 mm (0.12")														
Standard pack size														
TC050x050A-C	7TAG009830R0000	Natural	Self-adhesive	12.7	0.5	12.7	0.5	4.5	0.18	3.0	0.12	–	–	100
TC050x050AX-C	7TAG009830R0001	UV Black	Self-adhesive	12.7	0.5	12.7	0.5	4.5	0.18	3.0	0.12	–	–	100
Bulk pack size														
TC050x050A	7TAG009840R0003	Natural	Self-adhesive	12.7	0.5	12.7	0.5	4.5	0.18	3.0	0.12	–	–	1000
TC050x050AX	7TAG009840R0004	UV Black	Self-adhesive	12.7	0.5	12.7	0.5	4.5	0.18	3.0	0.12	–	–	1000

* Glue = Product code TC2PA (see page 14 for specifications)

Dimensions





Mounting bases

4-way entry — extra large



Characteristics

- Supplied on either a rubber-based (synthetic polymer) closed-cell foam adhesive or without self-adhesive (installation: screw and/or 2-component glue*)
- Available in standard polyamide 6.6 (natural)
- For use with wide cable ties such as hook and loop ties and lashing ties

Technical information

- Material: Polyamide 6.6
- Temperature range:
Glue version: -40 °C to +85 °C (-40 °F to 185 °F)
Self-adhesive version: 0 °C to +70 °C (32 °F to 158 °F)
- Flammability rating: UL 94 V-2
- Colors: Natural
- Other properties: Halogen-free, silicone-free

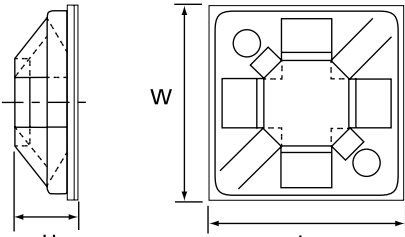
4-way entry



Product code	GID No.	Color	Mounting method	Dimensions						For tie		Mounting		Quantity
				L		W		H		width up to		hole diameter		
				[mm]	[in]	[mm]	[in]	[mm]	[in]	[mm]	[in]	[mm]	[in]	
For tie width up to 19.1 mm (0.75") (50.8 mm x 50.8 mm (2" x 2") base)														
TC368**	7TAG009840R0015	Natural	screw / glue*	50.8	2	50.8	2	6.6	0.26	19.1	0.75	4.3	0.17	500
TC368A**	7TAG009840R0016	Natural	self-adhesive / screw	50.8	2	50.8	2	6.6	0.26	19.1	0.75	4.3	0.17	500

* Glue = Product code TC2PA (see page 14 for specifications).

Dimensions



Mounting bases

4-way entry — for wide cable ties



Characteristics

- Supplied on either a rubber-based (synthetic polymer) closed-cell foam adhesive or without self adhesive (installation: screw and/or 2-component glue*)
- Available in standard polyamide 6.6 (natural) or UV-resistant polyamide 6.6 (black)

Technical information

- Material: Polyamide 6.6
- Temperature range:
Glue version: -40 °C to +85 °C (-40 °F to 185 °F)
Self-adhesive version: 0 °C to +70 °C (32 °F to 158 °F)
- Flammability rating: UL 94 V-2
- Colors: Natural or UV-resistant black (see table)
- Other properties: UV-resistant black, halogen-free, silicone-free

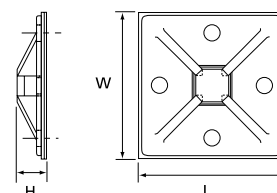


4-way entry — for wide cable ties

Product code	GID No.	Color	Mounting method	Dimensions						For tie width up to		Mounting hole diameter		Quantity [pieces]
				L		W		H						
				[mm]	[in]	[mm]	[in]	[mm]	[in]	[mm]	[in]	[mm]	[in]	
For tie width up to 7.9 mm (0.31") (38.1 mm x 38.1 mm (1.5" x 1.5") base)														
Standard pack size														
TC150x150L	7TAG009830R0004	Natural	Screw / glue*	38.1	1.5	38.1	1.5	7.4	0.29	7.9	0.31	4.3	0.17	50
TC150x150A-L	7TAG009830R0002	Natural	Self-adhesive / screw	38.1	1.5	38.1	1.5	7.4	0.29	7.9	0.31	4.3	0.17	50
TC150x150AX-L	7TAG009830R0003	UV-resistant black	Self-adhesive / screw	38.1	1.5	38.1	1.5	7.4	0.29	7.9	0.31	4.3	0.17	50
Bulk pack size														
TC150x150	7TAG009840R0008	Natural	Screw / glue*	38.1	1.5	38.1	1.5	7.4	0.29	7.9	0.31	4.3	0.17	500
TC150x150A	7TAG009840R0009	Natural	Self-adhesive / screw	38.1	1.5	38.1	1.5	7.4	0.29	7.9	0.31	4.3	0.17	500
TC150x150AX	7TAG009840R0010	UV-resistant black	Self-adhesive / screw	38.1	1.5	38.1	1.5	7.4	0.29	7.9	0.31	4.3	0.17	500
For tie width up to 7.9 mm (0.31") (50.8 mm x 50.8 mm (2" x 2") base)														
Standard pack size														
TC200x200L	7TAG009830R0006	Natural	Screw / glue*	50.8	2.0	50.8	2.0	7.4	0.29	7.9	0.31	4.3	0.17	50
TC200x200A-L	7TAG009830R0005	Natural	Self-adhesive / screw	50.8	2.0	50.8	2.0	7.4	0.29	7.9	0.31	4.3	0.17	50
Bulk pack size														
TC200x200	7TAG009840R0011	Natural	Screw / glue*	50.8	2.0	50.8	2.0	7.4	0.29	7.9	0.31	4.3	0.17	500
TC200x200A	7TAG009840R0012	Natural	Self-adhesive / screw	50.8	2.0	50.8	2.0	7.4	0.29	7.9	0.31	4.3	0.17	500
TC200x200AX	7TAG009840R0013	UV-resistant black	Self-adhesive / screw	50.8	2.0	50.8	2.0	7.4	0.29	7.9	0.31	4.3	0.17	500

* Glue = Product code TC2PA (see page 14 for specifications).

Dimensions



Mounting bases

Low profile plates



Characteristics

- Low profile
- Easy to use
- Self-adhesive or to be glued with 2-component glue*

Technical information

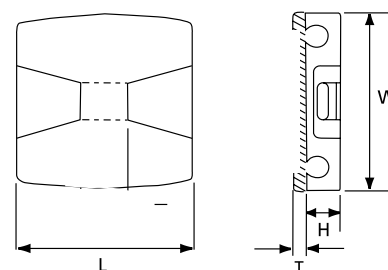
- Material: Polyamide 6.6
- Temperature range:
-40 °C to +85 °C (-40 °F to 185 °F)
Self-adhesive version: 0 °C to +65 °C (32 °F to 149 °F)
- Color: Natural or UV-resistant black (see table)
- Flammability rating: UL 94 V-2
- Other properties: Halogen-free, silicone-free, UV-resistant black

Low profile plates

Product code	GID No.	Color	Mounting method	Dimensions										For tie width up to		Quantity [pieces]
				H		T		W		L						
				[mm]	[in]	[mm]	[in]	[mm]	[in]	[mm]	[in]	[mm]	[in]	[mm]	[in]	
Standard pack size																
TC5342A	7TAG009800R0000	Natural	Self-adhesive	5.7	0.22	0.8	0.31	29.0	1.41	29.0	1.41	4.8	0.19	100		
Bulk pack size																
TC817-TB	7TAG009840R0020	Natural	Glue*	4.8	0.19	–	–	11.0	0.43	11.0	0.43	4.8	0.19	1000		
TC342	7TAG009820R0036	Natural	Glue*	5.7	0.22	–	–	29.0	1.41	29.0	1.41	4.8	0.19	1000		
TC342X	7TAG009820R0040	UV-resistant black	Glue*	5.7	0.22	–	–	29.0	1.41	29.0	1.41	4.8	0.19	1000		
TC342A	7TAG009820R0037	Natural	Self-adhesive	5.7	0.22	0.8	0.31	29.0	1.41	29.0	1.41	4.8	0.19	1000		
TC342A-X	7TAG009820R0038	UV-resistant black	Self-adhesive	5.7	0.22	0.8	0.31	29.0	1.41	29.0	1.41	4.8	0.19	1000		

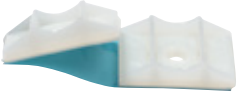
* Glue = Product code TC2PA (see page 14 for specifications).

Dimensions



Mounting bases

Self-adhesive mounting cradle



Characteristics

- Accepts cable ties to 7.6 mm (0.30") width
- Supplied "two-up" on closed-cell foam with synthetic polymer rubber-based adhesive
- Use M3.5 self-tapping screw for added strength if desired

Technical information

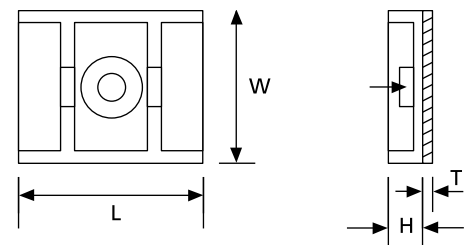
- Material: Polyamide 6.6
- Temperature range: 0 °C to +65 °C (32 °F to 149 °F)
- Color: Natural or UV-resistant black (see table)
- Mounting method: Self-adhesive and/or screw
- Flammability rating: UL 94 V-2
- Other properties: UV-resistant black, halogen-free, silicone-free

Self-adhesive mounting cradle

											Dimensions			
Product code	GID No.	Color	H		T		L		W		For tie width up to		Quantity [pieces]	
			[mm]	[in]	[mm]	[in]	[mm]	[in]	[mm]	[in]	[mm]	[in]		
Standard pack size														
MCNY-1250-9-L	7TAG009990R0009	Natural	7.2	0.28	0.8	0.03	31.7	1.25	25.4	1.0	7.6	0.30	50	
Bulk pack size														
MCNY-1250-9-C	7TAG009990R0007	Natural	7.2	0.28	0.8	0.03	31.7	1.25	25.4	1.0	7.6	0.30	100	
MCNY-1250-9-D	7TAG009990R0008	Natural	7.2	0.28	0.8	0.03	31.7	1.25	25.4	1.0	7.6	0.30	500	
MCNY-1250-0-C	7TAG009990R0006	UV-resistant black	7.2	0.28	0.8	0.03	31.7	1.25	25.4	1.0	7.6	0.30	100	

For other colors and quantities, please contact your Sales Office.

Dimensions



Mounting bases

Saddle support



Characteristics

- Tie mounting bases with supporting saddle
- For screw- or rivet-mounting
- The prism-shape of the saddle prevents twisting around the fixture
- High strength through compact design
- Non-conductive, non-corrosive, resistant to fuels, lubricants and most chemicals
- Available in natural nylon, UV-resistant nylon or heat-stabilized black version

Technical information

- Material: Polyamide 6.6 or heat-stabilized polyamide 6.6
- Temperature range: -40 °C to +85 °C (-40 °F to 186 °F)
- Color: Natural or UV-resistant black (see table)
- Mounting method: Screw
- Flammability rating: UL 94 V-2
- Other properties: Halogen-free, silicone-free, UV-resistant black
- Natural: -40 °C to +85 °C (-40 °F to 185 °F), UV-resistant black: -40 °C to +105 °C (-40 °F to 221 °F)



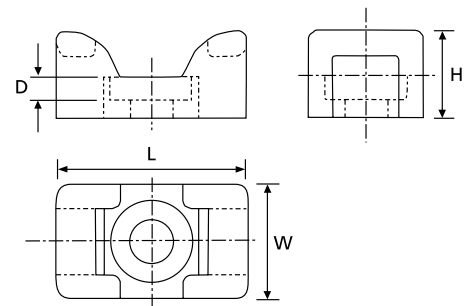
Saddle support

Product code	GID No.	Color	Dimensions								For tie width up to		Mounting hole diameter		Quantity [pieces]
			H		W		L		D						
			[mm]	[in]	[mm]	[in]	[mm]	[in]	[mm]	[in]	[mm]	[in]	[mm]	[in]	
Standard pack size															
TC5140	7TAG009840R0017	Natural	6.7	0.26	8.7	0.34	14.2	0.56	1.8	0.07	2.4	0.09	3.0	0.12	100
TC5141	7TAG009870R0002	Natural	7.5	0.30	11.1	0.44	17.0	0.67	2.3	0.09	4.8	0.19	3.8	0.15	100
TC5142	7TAG009870R0003	Natural	10.7	0.42	14.2	0.56	23.4	0.92	2.9	0.11	7.6	0.30	5.2	0.20	100
TC5142X*	7TAG009840R0018	UV-resistant black / heat stabilized	10.7	0.42	14.2	0.56	23.4	0.92	2.9	0.11	7.6	0.30	5.2	0.20	100
Bulk pack size															
TC140	7TAG009880R0005	Natural	6.7	0.26	8.7	0.34	14.2	0.56	1.8	0.07	2.4	0.09	3.0	0.12	500
TC141	7TAG009880R0006	Natural	7.5	0.30	11.1	0.44	17.0	0.67	2.3	0.09	4.8	0.19	3.8	0.15	500
TC142	7TAG009880R0007	Natural	10.7	0.42	14.2	0.56	23.4	0.92	2.9	0.11	7.6	0.30	5.2	0.20	500
TC142X*	7TAG009840R0007	UV-resistant black / heat stabilized	10.7	0.42	14.2	0.56	23.4	0.92	2.9	0.11	7.6	0.30	5.2	0.20	500

* Are not UL recognized.

For other colors and quantities, please contact your Sales Office.

Dimensions





Mounting bases

Weather-resistant — Heavy-duty



Characteristics

- Tie mounting base for outdoor installation
- A strong, weatherproof and durable outdoor fastening solution for pipes, hoses, cables, etc.
- For screw fastening
- Ergonomically shaped for ease of installation

Technical information

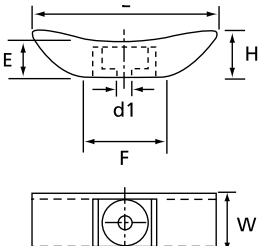
- Material: UV-stabilized polyamide 6.6
- Temperature range: -40 °C to +85 °C (-40 °F to 185 °F)
- Color: Black
- Mounting method: Screw (for product code TC5355 to TC5357 only)
- Flammability rating: UL 94 V-2
- Other properties: UV-resistant, halogen-free, silicone-free

Weather-resistant — Heavy-duty



Product code	GID no.	Dimensions										For tie width up to		Mounting hole diameter		Quantity [pieces]
		H		W		L		E		F						
		[mm]	[in]	[mm]	[in]	[mm]	[in]	[mm]	[in]	[mm]	[in]	[mm]	[in]	[mm]	[in]	
Mounting cradle																
TC5355	7TAG009870R0004	15.9	0.63	19.1	0.75	44.5	1.75	11.1	0.44	28.6	1.13	12.7	0.5	4.6	0.18	25
TC5356	7TAG009870R0005	15.9	0.63	19.1	0.75	44.5	1.75	11.1	0.44	28.6	1.13	12.7	0.5	5.2	0.20	25
TC5357	7TAG009870R0006	15.9	0.63	19.1	0.75	44.5	1.75	11.1	0.44	28.6	1.13	12.7	0.5	6.7	0.26	25

Dimensions



Mounting bases

Saddle-type mounting base



Characteristics

- The saddle-type mounting bases allow three possible cable mounting configurations:
- Cables can be attached to a flat surface on which the base is screwed
 - Cable bundles can be mounted in parallel
 - Cable bundles can be mounted crosswise

It can also be used for mounting cylindrical objects having a diameter between 12.7 mm and 31.8 mm (0.5" and 1.25")

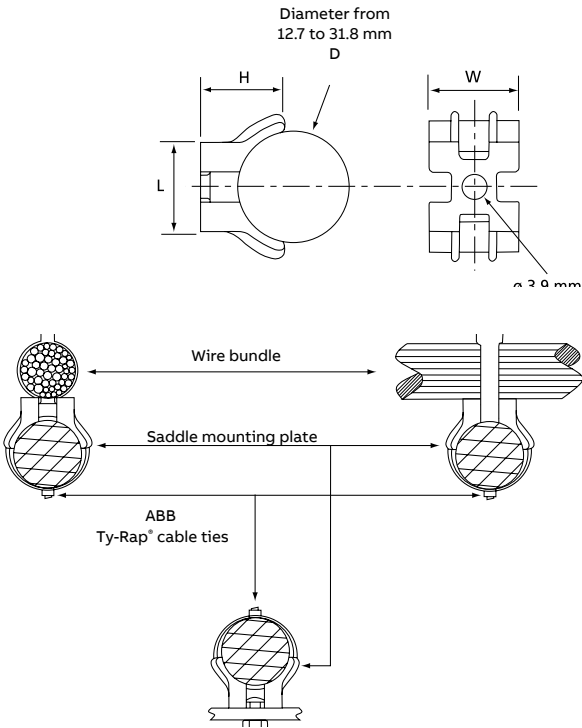
Technical information

- Material: Polyamide 6.6
- Temperature range: -40 °C to +85 °C (-40 °F to 185 °F)
- Color: Natural
- Mounting method: Screw
- Flammability rating: UL 94 V-2
- Other properties: Halogen-free, silicone-free

Saddle-type mounting base

Product code	GID no.	Dimensions								For tie width up to		Mounting hole diameter		Quantity [pieces]
		H		W		L		D						
		[mm]	[in]	[mm]	[in]	[mm]	[in]	[mm]	[in]	[mm]	[in]	[mm]	[in]	
TC92	7TAG009910R0088	14.3	0.56	15.1	0.59	15.1	0.59	12.7 - 31.8	0.5 - 1.25	4.8	0.19	3.9	0.15	100

Dimensions



Mounting bases

Screw-mounted miniature bases and bases for crosswise fastening



Characteristics

- Low profile mounting base
- For screw or rivet mounting
- Easy to use due to cable tie insertion guide
- Two ties can be fastened crosswise to securely fix cable intersections (for crosswise fastening only)

Technical information

- Material: Polyamide 6.6
- Temperature range: -40 °C to +85 °C (-40 °F to 185 °F)
- Color: Natural
- Mounting method: Fillister-head screw (miniature base), screw or rivet (for crosswise fastening)
- Flammability rating: UL 94 V-2
- Other properties: Halogen-free, silicone-free



Screw-mounted miniature bases

Product code	GID no.	Dimensions								For tie width up to	Mounting hole diameter		Quantity [pieces]	
		H		W		L		D			[mm]	[in]		
		[mm]	[in]	[mm]	[in]	[mm]	[in]	[mm]	[in]					
TC814-TB	7TAG009880R0011	4.8	0.19	9.5	0.37	19.1	0.75	2.0	0.08	4.8	0.19	3.3	0.13	1000
TC112-TB	7TAG009880R0004	4.8	0.19	9.5	0.37	19.1	0.75	2.0	0.08	4.8	0.19	4.4	0.17	1000
TC812-TB	7TAG009880R0009	4.8	0.19	9.5	0.37	19.1	0.75	2.0	0.08	4.8	0.19	5.1	0.20	1000

For other colors and quantities, please contact your Sales Office.



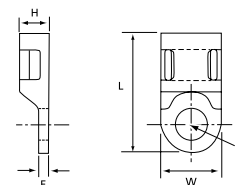
Characteristics

- Extremely low profile
- For screw- or rivet-mounting
- Easy to use due to the cable tie insertion guide
- Two ties can be fastened crosswise to securely fix cable intersections

Technical information

- Material: Polyamide 6.6
- Temperature range: -40 °C to +85 °C (-40 °F to 185 °F)
- Color: Natural
- Mounting method: Screw or rivet
- Flammability rating: UL 94 V-2
- Other properties: Halogen free, Silicone free

Dimensions

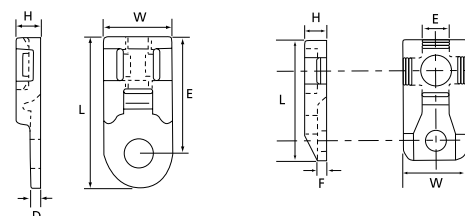


Screw-mounted — for crosswise fastening

Product code	GID no.	Dimensions										For tie width up to		Mounting hole diameter		Quantity [pieces]
		H		W		L		D		E						
		[mm]	[in]	[mm]	[in]	[mm]	[in]	[mm]	[in]	[mm]	[in]	[mm]	[in]	[mm]	[in]	
TC5828	7TAG009870R0007	3.8	0.15	10.1	0.40	22.5	0.89	1.5	0.06	17.4	0.68	4.8	0.19	4.3	0.17	100
TC828-TB	7TAG009880R0015	3.8	0.15	10.1	0.40	22.5	0.89	1.5	0.06	17.4	0.68	4.8	0.19	4.3	0.17	1000
TC826-TB	7TAG009880R0014	5.7	0.22	12.7	0.50	23.8	0.94	5.3	0.21	2.0	0.08	4.8	0.19	4.4	0.17	1000

For other colors and quantities, please contact your Sales Office.

Dimensions



TC5828 / TC828-TB

TC826-TB

Mounting bases

Screw-mounted miniature bases



Characteristics

- Extremely low profile
- For screw or rivet mounting
- Easy to use due to cable tie insertion guide

Technical information

- Material: Polyamide 6.6
- Temperature range: -40 °C to +85 °C (-40 °F to 185 °F)
- Color: Natural
- Mounting method: Screw or rivet
- Flammability rating: UL 94 V-2
- Other properties: Halogen-free, silicone-free

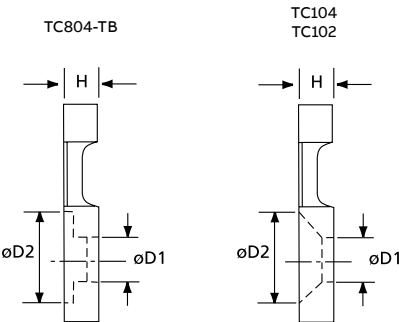
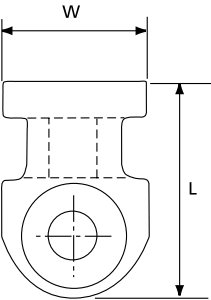
Screw-mounted miniature bases



Product code	GID no.	Dimensions								For tie width up to	Mounting hole diameter				Quantity [pieces]
		H		W		L		Diameter D1			Diameter D2				
		[mm]	[in]	[mm]	[in]	[mm]	[in]	[mm]	[in]		[mm]	[in]			
Small pack size															
TC502***	7TAG009870R0000	3.2	0.13	12.7	0.5	19.1	0.75	4.8	0.19	4.4	0.17	8.7	0.34	100	
Standard pack size															
TC804-TB**	7TAG009880R0008	2.4	0.09	7.9	0.31	10.2	0.41	2.4	0.09	2.3	0.09	4.7	0.19	1000	
TC104*	7TAG009880R0003	2.4	0.09	7.9	0.31	10.3	0.41	2.4	0.09	3.4	0.09	6.5	0.26	1000	
TC102*	7TAG009880R0001	3.2	0.13	12.7	0.5	19.1	0.75	4.8	0.19	4.4	0.17	8.7	0.34	1000	

* UL listed only.
** cURus certified only.
*** not UL certified.

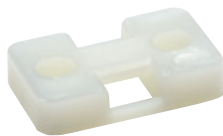
Dimensions





Mounting bases

Screw-mounted — for wide cable ties



- Characteristics**
- Extremely low profile
 - For screw or rivet mounting
 - Easy to use due to cable tie insertion guide
 - Secure mounting with two fastening holes

- Technical information**
- Material: Polyamide 6.6
 - Temperature range: -40 °C to +85 °C (-40 °F to 185 °F)
 - Color: Natural
 - Mounting method: 2 screws
 - Flammability rating: UL 94 V-2
 - Other properties: Halogen-free, silicone-free



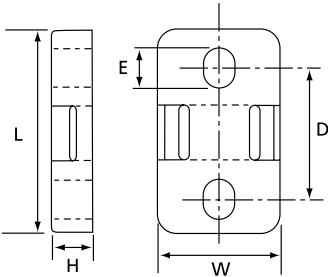
Screw-mounted — for wide cable ties



Product code	GID no.	Dimensions										For tie		Mounting		Quantity
		H		W		L		D		E		width up to		hole diameter		
		[mm]	[in]	[mm]	[in]	[mm]	[in]	[mm]	[in]	[mm]	[in]	[mm]	[in]	[mm]	[in]	
TC815-TB	7TAG009880R0012	6.4	0.25	19.1	0.75	31.2	1.23	19.9	0.78	6.4	0.25	7.6	0.30	5.3	0.21	500

For other colors and quantities, please contact your Sales Office.

Dimensions

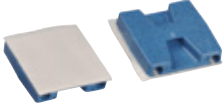


Mounting bases

TyGenic™ antimicrobial detectable mounts



2-way and 4-way entry mounting bases



Low profile plates

Characteristics

2-way and 4-way entry mounting bases

- Detectable with metal and X-ray detection equipment
- Limits errors in premounting the base with respect to its orientation to wire bundle direction

Low profile plates

- Detectable with metal and X-ray detection equipment
- One-piece molding — no lost parts
- Low profile
- Easy to use

- Self-adhesive or to be glued with 2-component glue*

Technical information

- Material: Detectable polyamide 6.6 and polypropylene
- Temperature range: 0 °C to +65 °C (32 °F to 150 °F)
- Color: Blue
- Mounting method: 2 screws, 2 rivets or self-adhesive
- Other properties: Detectable with metal and X-ray detection equipment



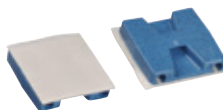
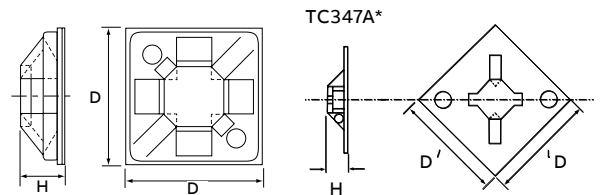
E49405

2-way and 4-way entry mounting bases

Product code	GID no.	Mounting method	Width H		Length D		For tie width up to		Mounting hole (2x) diameter		Quantity [pieces]
			[mm]	[in]	[mm]	[in]	[mm]	[in]	[mm]	[in]	
TC5344A-NDT	7TAG009660R0023	Self-adhesive*/screw	19.1	0.75	19.1	0.75	3.6	0.14	3.0	0.12	100
TC344A-NDT	7TAG009660R0013	Self-adhesive*/screw	19.1	0.75	19.1	0.75	3.6	0.14	3.0	0.12	1000
TC5344A-PDT	7TAG009660R0024	Self-adhesive*/screw	19.1	0.75	19.1	0.75	3.6	0.14	3.0	0.12	100
TC5347A-NDT	7TAG009660R0025	Self-adhesive*/screw	29.0	1.14	29.0	1.14	7.6	0.30	4.4	0.17	100
TC347A-NDT	7TAG009660R0014	Self-adhesive*/screw	29.0	1.14	29.0	1.14	7.6	0.30	4.4	0.17	1000
TC5347A-PDT	7TAG009660R0026	Self-adhesive*/screw	29.0	1.14	29.0	1.14	7.6	0.30	4.4	0.17	100

* Surface preparation: surface should be cleaned with alcohol-based cleaner before application. Installation: Surface must be clean and dry prior to application of accessory. Allow 15-minute setting time for maximum adhesion performance of synthetic rubber adhesive (SRA).

Dimensions



Low profile plates

Low profile plates

- Detectable with metal and X-ray detection equipment
- One-piece molding - no lost parts
- Low profile

Low profile plates

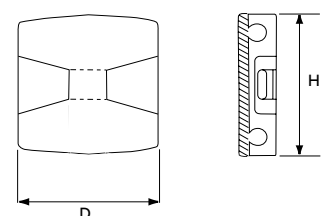


E49405

Product code	GID no.	Mounting method	Width H		Length D		For tie width up to		Quantity [pieces]
			[mm]	[in]	[mm]	[in]	[mm]	[in]	
TC5342A-NDT	7TAG009660R0021	Self-adhesive*	29	1.14	29	1.14	4.8	0.19	100
TC342A-NDT	7TAG009660R0012	Self-adhesive*	29	1.14	29	1.14	4.8	0.19	1000
TC5342A-PDT	7TAG009660R0022	Self-adhesive*	29	1.14	29	1.14	4.8	0.19	100

* Surface preparation: surface should be cleaned with alcohol-based cleaner before application. Installation: Surface must be clean and dry prior to application of accessory. Allow 15-minute setting time for maximum adhesion performance of synthetic rubber adhesive (SRA).

Dimensions



Mounting bases

TyGenic™ antimicrobial detectable mounts



Saddle support

Characteristics

- Detectable with metal and X-ray detection equipment
- Saddle support mounting base provides a saddle for the wire run; Ty-Rap® cable tie is threaded under bundle and tied in the usual manner

Technical information

- Material: Detectable polyamide 6.6 and polypropylene
- Temperature range: -40 °C to +85 °C (-40 °F to 185 °F)
- Color: Blue
- Mounting method: 2 screws or 2 rivets
- Other properties: Detectable with metal and X-ray detection equipment

Saddle support

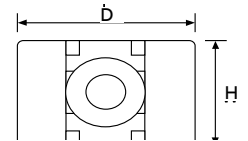
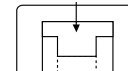


Product code	GID no.	Mounting method	Width H		Length D		For tie width up to		Mounting hole diameter		Quantity [pieces]
			[mm]	[in]	[mm]	[in]	[mm]	[in]	[mm]	[in]	
TC141-NDT	7TAG009660R0010	Screw	11.1	0.44	17	0.67	4.8	0.19	3.8	0.15	100
TC5141-NDT	7TAG009660R0017	Screw	11.1	0.44	17	0.67	4.8	0.19	3.8	0.15	500
TC5141-PDT	7TAG009660R0018	Screw	11.1	0.44	17	0.67	4.8	0.19	3.8	0.15	100
TC5142-NDT	7TAG009660R0019	Screw	14.2	0.56	23.4	0.92	7.6	0.30	5.2	0.20	100
TC142-NDT	7TAG009660R0011	Screw	14.2	0.56	23.4	0.92	7.6	0.30	5.2	0.20	500
TC5142-PDT	7TAG009660R0020	Screw	14.2	0.56	23.4	0.92	7.6	0.30	5.2	0.20	100



Screw-mounted miniature bases

Dimensions

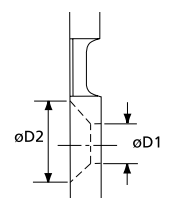
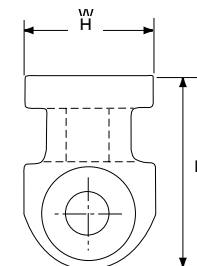


Screw-mounted miniature bases



Product code	GID no.	Mounting method	Width H		Length D		For tie width up to		Mounting hole				Quantity [pieces]
			[mm]	[in]	[mm]	[in]	[mm]	[in]	Diameter D1		Diameter D2		
									[mm]	[in]	[mm]	[in]	
TC5102-NDT	7TAG009660R0015	Screw	12.7	0.5	19.1	0.75	4.8	0.19	4.4	0.17	8.7	0.32	100
TC102-NDT	7TAG009660R0008	Screw	12.7	0.5	19.1	0.75	4.8	0.19	4.4	0.17	8.7	0.32	1000
TC102-PDT	7TAG009660R0009	Screw	12.7	0.5	19.1	0.75	4.8	0.19	4.4	0.17	8.7	0.32	1000

Dimensions



Mounting bases

Screw-mounted supporting bases



Characteristics

- Supporting mounting base with strong hold due to two mounting holes
- Can be screwed or riveted
- Allows double and/or crosswise (two ties) mounting
- For parallel and through mounting with support
- Suitable for large bundle diameters

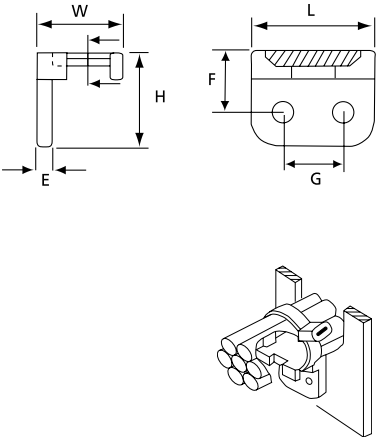
Technical information

- Material: Polyamide 6.6
- Temperature range: -40 °C to +85 °C (-40 °F to 185 °F)
- Color: Natural
- Mounting method: 2 screws or 2 rivets
- Flammability rating: UL 94 V-2
- Other properties: Halogen-free, silicone-free

Screw-mounted supporting bases

Product code	GID no.	Dimensions										For tie width up to		Mounting hole diameter (x2)		Quantity [pieces]		
		H		W		L		G		E							F	
		[mm]	[in]	[mm]	[in]	[mm]	[in]	[mm]	[in]	[mm]	[in]	[mm]	[in]	[mm]	[in]			
TC106	7TAG009910R0071	25.4	1.0	19.1	0.75	25.4	1.0	12.7	0.5	4.6	0.18	16.5	0.65	7.6	0.30	3.3	0.13	200
TC109	7TAG009920R0001	11.1	0.44	9.9	0.39	14.3	0.56	7.1	0.28	1.7	0.07	7.0	0.28	4.8	0.19	2.4	0.09	1000

Dimensions





Mounting bases

Weather-resistant — Heavy-duty



- Characteristics**
- Tie mounting base for outdoor installation
 - A strong, weatherproof and durable outdoor fastening solution for pipes, hoses, cables, etc.
 - For screw-fastening
 - Ergonomically shaped for trouble-free installation

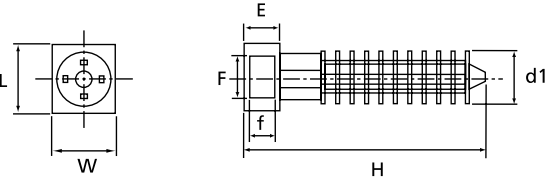
- Technical information**
- Material: UV-stabilized polyamide 6.6
 - Temperature range: -40 °C to +85 °C (-40 °F to 185 °F)
 - Color: Black
 - Mounting method: Screw (for product code TC5355 to TC5357 only)
 - Flammability rating: UL 94 V-2
 - Other properties: UV-resistant, halogen-free, silicone-free

Weather-resistant — Heavy-duty



Product code	GID no.	Dimensions												For tie width up to		Mounting hole diameter		Quantity [pieces]
		H		W		L		E		F		f						
		[mm]	[in]	[mm]	[in]	[mm]	[in]	[mm]	[in]	[mm]	[in]	[mm]	[in]	[mm]	[in]	[mm]	[in]	
Wall plug																		
TC5358	7TAG009850R0001	31.8	1.25	9.9	0.39	9.9	0.39	7.1	0.28	5.6	0.22	2.3	0.09	4.8	0.19	6.4 (in wall)	0.25 (in wall)	100
TC5359	7TAG009850R0002	38.4	1.51	19.1	0.75	19.1	0.75	8.1	0.32	14.0	0.55	3.1	0.12	12.7	0.5	9.5 (in wall)	0.37 (in wall)	50

Dimensions





Mounting bases

Clip-in mounting bases for blind mounting



Characteristics

- Clip-in tie mounting bases for housings, faceplates, etc.
- With fastening clip for blind mounting and two openings for 2.8 mm (0.11") or 4.8 mm (0.19") ties
- Low profile

Technical information

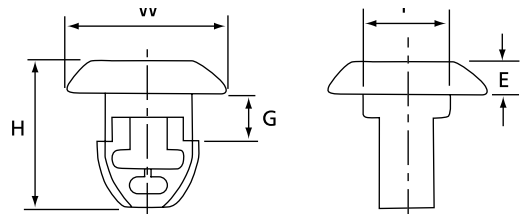
- Material: Polyamide 6.6
- Temperature range: -40 °C to +85 °C (-40 °F to 185 °F)
- Color: Natural
- Mounting method: Clip in
- Flammability rating: UL 94 V-2
- Other properties: Halogen-free, silicone-free

Clip-in mounting bases for blind mounting



Product code	GID No.	Dimensions						Panel thickness from...to		For tie width up to		Mounting hole diameter		Quantity [pieces]
		H		W		E								
		[mm]	[in]	[mm]	[in]	[mm]	[in]	[mm]	[in]	[mm]	[in]	[mm]	[in]	
TC121-TB	7TAG009860R0006	10.4	0.41	11.2	0.44	2.0	0.08	0.1 to 3.2	0.003 to 0.13	2.4 or 4.8	0.09 or 0.19	6.3	0.25	1000

Dimensions



Mounting bases

Clip-in mounting bases for surface mounting



Characteristics

- Clip-in tie mounting bases for housings, faceplates, etc.
- With fastening clip for surface mounting
- Low profile

Technical information

- Material: Polyamide 6.6
- Temperature range: -40 °C to +85 °C (-40 °F to 185 °F)
- Color: Natural (TC823-TB and TC5823), UV-resistant black (TC823X)
- Mounting method: Clip in
- Flammability rating: UL 94 V-2
- Other properties: UV-resistant (black), halogen-free, silicone-free
- For tie width up to 4.8 mm (0.19")

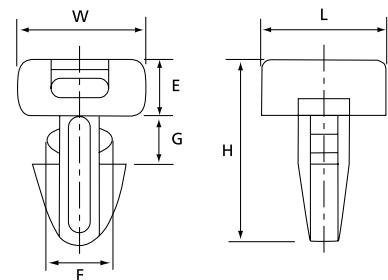
Clip-in mounting bases for surface mounting

Product code		GID no.		Dimensions										Panel thickness from ... to		Mounting hole diameter		Quantity
				H		W		L		E		F						
				[mm]	[in]	[mm]	[in]	[mm]	[in]	[mm]	[in]	[mm]	[in]	[mm]	[in]	[mm]	[in]	
Small pack size																		
TC5823	7TAG009850R0003	16.8	0.66	11.1	0.44	11.1	0.44	5.1	0.20	5.8	0.23	0.1 to 3.2	0.004 to 0.13	6.2 to 6.5	0.24 to 0.26	100		
Standard pack size																		
TC823-TB	7TAG009860R0007	16.8	0.66	11.1	0.44	11.1	0.44	5.1	0.20	5.8	0.23	0.1 to 3.2	0.004 to 0.13	6.2 to 6.5	0.24 to 0.26	1000		
TC823X*	7TAG009860R0008	16.8	0.66	11.1	0.44	11.1	0.44	5.1	0.20	5.8	0.23	0.1 to 3.2	0.004 to 0.13	6.2 to 6.5	0.24 to 0.26	1000		

* Not UL recognized.

For other colors and quantities, please contact your Sales Office.

Dimensions



Mounting bases

Stud-mounting system



Characteristics

- A fast and simple harnessing method for neat, versatile wire management
- 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 Ty-Rap® cable ties
- Custom drill bit quickly installs base to proper torque — won't crack or break mounting base as a result of being overtightened
- Unique 4-way multi-directional design

- 10-position harness capability
- Available for 3/8", 1/2", 5/8" and 3/4" stud/bolt sizes
- Self-tapping thread design for reliable installation onto stud
- High pull-out strength of 500+ lb

Technical information

- Material: Nylon 6.6, UV-stabilized
- Color: Black
- Weather-resistant
- Flammability rating: UL94-V2
- Halogen-free and silicone-free

Stud-mounting system

Product code	GID No.	Description	Stud size		Color	Quantity [pieces]
			[mm]	[in]		
XMNY-375-0-D	7TAG009770R0001	Mount fastener	9.5	0.38	Black	500
XMNY-500-0-D	7TAG009770R0002	Mount fastener	12.7	0.50	Black	500
XMNY-625-0-D	7TAG009770R0003	Mount fastener	15.9	0.63	Black	500
XMNY-750-0-D	7TAG009770R0004	Mount fastener	19.1	0.75	Black	500
WTXM	7TAG009770R0000	Application tool	–	–	–	1

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.

—

Mounting bases

Aluminum siding clip



Characteristics

- Weather-resistant and transparent
- Designed to accommodate PITTSBURG INTERLOCK metal siding
- Accommodates wires both vertically and/or horizontally
- Provision for using Ty-Rap® cable ties to secure large diameter bundles

Technical information

- Material: Weather-resistant grade polycarbonate
- Color: Transparent

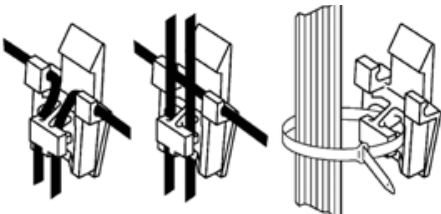
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Aluminum siding clip

Product code	GID No.	Wire accommodation	Quantity [pieces]
TC201	7TAG009890R0000	1/8" diameter wire (2-pair station wire)	50

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Dimensions



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Mounting bases

Framing channel clamp



Characteristics

- Designed for indoor or outdoor use and heavy-duty applications
- Quick and easy to install on existing metal framing channel
- Installs with a push and twist
- Smooth design protects cable insulation
- Takes range of cable diameters

When fastening wire bundles, cables or hoses to framing channels, costs can be cut 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 and outdoor applications. It quickly installs in the framing channel with a simple push and twist, requiring no screws, nuts or tools. The clamp fits all 1½" and 1⅝" channels regardless of channel depth.

Technical information

- Material: High-impact weather-resistant nylon
- Temperature range: -40 °C to +85 °C (-40 °F to 185 °F)
- Color: Black

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Framing channel clamp

Product code	GID No.	Channel size [in]	Maximum tie width accom.		Quantity [pieces]
			[mm]	[in]	
TC5363X	7TAG009890R0003	1½ and 1⅝	7.65	0.301	50

Cable clamps

Plain edge cable clamps



Characteristics

- 18 diameters and two widths with mounting holes for M4 and M5 screws
- Indoor application

Technical information

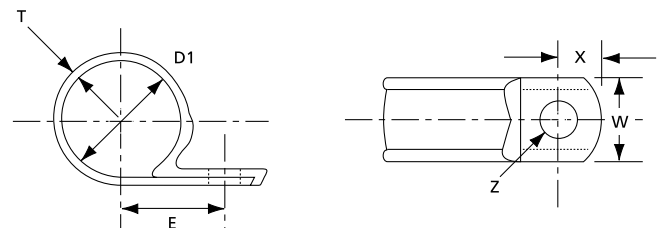
- Material: Polyamide 6.6
- Temperature range: -40 °C to +85 °C (-40 °F to 185 °F)
- Color: Black
- Mounting method: Screw
- Flammability rating: UL 94 V-2
- Other properties: Halogen-free, silicone-free

Plain edge cable clamps

Product code	GID No	D1 closed diameter				E		T		W		Z		X		Quantity [pieces]
		[mm]	[in]	[mm]	[in]	[mm]	[in]	[mm]	[in]	[mm]	[in]	[mm]	[in]	[mm]	[in]	
N4NY-002-0-M	7TAG009970R0050	3.20	0.13	8.71	0.34			1.27	0.05	9.53	0.38	5.54	0.22	4.30	0.17	1000
N4NY-003-0-M	7TAG009970R0056	4.70	0.19	9.60	0.38			1.27	0.05	9.53	0.38	5.54	0.22	4.30	0.17	1000
N4NY-004-0-M	7TAG009970R0063	6.30	0.25	10.70	0.42			1.27	0.05	9.53	0.38	5.54	0.22	4.30	0.17	1000
N4NY-005-0-M	7TAG009970R0070	7.90	0.31	11.20	0.44			1.27	0.05	9.53	0.38	5.54	0.22	4.30	0.17	1000
N4NY-006-0-M	7TAG009970R0075	9.50	0.37	11.79	0.46			1.27	0.05	9.53	0.38	5.54	0.22	4.30	0.17	1000
N4NY-008-0-M	7TAG009970R0089	12.70	0.5	13.46	0.53			1.27	0.05	9.53	0.38	5.54	0.22	4.30	0.17	1000
N6NY-004C-0-M	7TAG009970R0096	6.35	0.25	11.10	0.44			1.52	0.06	12.71	0.5	5.54	0.22	5.16	0.20	1000
N6NY-005C-0-M	7TAG009970R0099	7.92	0.31	12.24	0.48			1.52	0.06	12.71	0.5	5.54	0.22	5.16	0.20	1000
N6NY-006C-0-M	7TAG009970R0102	9.53	0.38	12.70	0.5			1.52	0.06	12.71	0.50	5.54	0.22	5.16	0.20	1000
N6NY-008C-0-M	7TAG009970R0107	12.70	0.5	14.05	0.55			1.52	0.06	12.71	0.50	5.54	0.22	5.16	0.20	1000
N6NY-009-0-M	7TAG009970R0110	14.27	0.56	15.32	0.60			1.52	0.06	12.71	0.50	5.54	0.22	5.16	0.20	1000
N6NY-010-0-M	7TAG009970R0113	15.88	0.63	15.88	0.63			1.52	0.06	12.71	0.50	5.54	0.22	5.16	0.20	1000
N6NY-011-0-M	7TAG009970R0116	17.48	0.69	16.89	0.66			1.52	0.06	12.71	0.50	5.54	0.22	5.16	0.20	1000
N6NY-012-0-M	7TAG009970R0119	19.05	0.75	17.75	0.70			1.52	0.06	12.71	0.50	5.54	0.22	5.16	0.20	1000
N6NY-013-0-M	7TAG009970R0122	20.62	0.81	19.43	0.76			1.52	0.06	12.71	0.50	5.54	0.22	5.16	0.20	1000
N6NY-014-0-M	7TAG009970R0125	22.23	0.88	20.19	0.79			1.52	0.06	12.71	0.50	5.54	0.22	5.16	0.20	1000
N6NY-016-0-M	7TAG009970R0129	25.40	1.0	21.00	0.83			1.52	0.06	12.71	0.50	5.54	0.22	5.16	0.20	1000

Also available in quantities of 100 pieces. For other colors, please contact your Sales Office.

Dimensions



Cable clamps

Solar panel cable edge clips



90° — Manages cable perpendicular to the frame.



U-style — Manages cable parallel to the frame.



W-style — Extra capacity cable management for parallel applications.

Characteristics

- Quick and easy installation — no tools required
- Lightweight
- Mount up to four (4) #10 AWG solar PV control cables
- Cables can be quickly and easily removed without tools or cutting
- Reusable for ice removal, readjustment or other maintenance
- Supports the cables cleanly and easily through panel rotation, environmental changes and vibration
- Metal-free construction reduces the need for grounding
- Fits frame thickness range 0.060" to 0.120"

Technical information

- Weather-resistant acetal
 - Material proven to perform over 20 years outdoors
 - Operating temperatures -65 °C to 90 °C (-85 °F to 194 °F)
- Heat-stabilized nylon 6.6
 - Perfect for strength stability in heat of solar applications
 - Operating temperatures -40 °C to 105 °C (-40 °F to 220 °F)

Ty-Rap high-performance cable edge clips, weatherable acetal

Product code	GID No	Description	Max. cable diameter (in.)	Frame/ panel thk. (in.)	Cable capacity	Std. pkg.
TC401	7TAG009900R0007	Ty-Rap 90° cable edge clip, weatherable acetal	0.31	0.06–0.12	4	100
TC402	7TAG009900R0005	Ty-Rap U-style cable edge clip, weatherable acetal			4	100
TC403	7TAG009900R0006	Ty-Rap W-style cable edge clip, weatherable acetal			8	50

Operating temperatures: -65 °C to 90 °C (-85 °F to 194 °F)

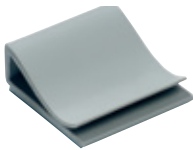
Ty-Rap high-performance cable edge clips, heat-stabilized nylon 6.6

Product code	GID No	Description	Max. cable diameter (in.)	Frame/ panel thk. (in.)	Cable capacity	Std. pkg.
GD-001-TB	7TAG009900R0000	Ty-Rap 90° cable edge clip, heat-stabilized nylon 6.6	0.31	0.06–0.12	4	100
TC412X	7TAG009900R0008	Ty-Rap U-style cable edge clip, heat-stabilized nylon 6.6			4	100
TC413X	7TAG009900R0009	Ty-Rap W-style cable edge clip, heat-stabilized nylon 6.6			8	50

Operating temperatures:-40 °C to 105 °C (-40 °F to 220 °F)

Accessories for flat cables

PVC cable-clips



Characteristics

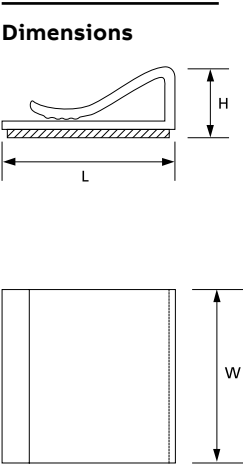
- Low profile clip for single or multiple layers of flat ribbon cable
- Single cut on rubber-based closed-cell foam adhesive

Technical information

- Material: PVC (clip)
- Temperature range: 0 °C to +65 °C (32 °F to 149 °F)
- Color: Gray
- Mounting method: Self-adhesive
- Flammability rating: UL 94 V-0 (clip)
- Other properties: UV-resistant

Self-adhesive clips for round cable

Product code	GID No.	Dimensions						Quantity [pieces]
			H		T		W	
		[mm]	[in]	[mm]	[in]	[mm]	[in]	
Small pack size								
FRPV-1000-8-C	7TAG009970R0028	5.8	0.23	27	1.06	25.4	1	100
Standard pack size								
FRPV-1000-8-D	7TAG009970R0029	5.8	0.23	27	1.06	25.4	1	500



Spiral wraps

Spiral wrap



Characteristics

- For protection of bundles from 4 mm to 130 mm (0.16" to 5.12")
- Install gapped for greater flexibility or butted for maximum abrasion resistance, insulation and rigidity
- Counter-clockwise cut
- Delivered in bags with Euroslot
- Available in natural and UV-resistant black polyethylene

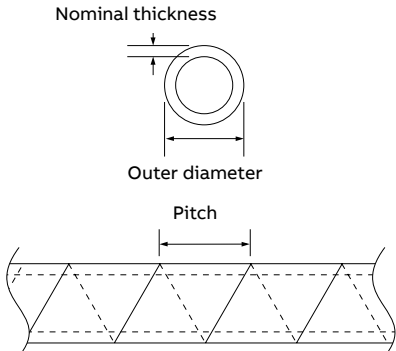
Technical information

- Material: Polyethylene
- Temperature range: -30 °C to +80 °C (-22 °F to 176 °F)
- Color: Natural and UV-resistant black
- Flammability rating: UL 94 HB
- Other properties: UV-resistant black, halogen-free, silicone-free

Spiral wrap

Product code	GID No.	Color	Outer diameter		Pitch		Nominal thickness		Min. – max. bundle diameter		Length	
			[mm]	[in]	[mm]	[in]	[mm]	[in]	[mm]	[in]	[m]	[ft]
SRPE-6-9	7TCG054090R0233	Natural	6.0	0.24	7.0	0.78	0.5	0.02	4.0–50	0.16–0.97	10.0	32.81
SRPE-8-9	7TCG054090R0239	Natural	8.0	0.31	10.8	0.43	0.5	0.02	6.0–60	0.24–25.59	10.0	32.81
SRPE-10-9	7TCG054090R0217	Natural	10.0	0.39	11.4	0.44	0.8	0.03	7.5–60	0.30–25.59	10.0	32.81
SRPE-12-9	7TCG054090R0221	Natural	12.0	0.47	13.9	0.55	0.9	0.04	9.0–65	0.35–2.56	10.0	32.81
SRPE-15-9	7TCG054090R0223	Natural	15.0	0.59	15.0	0.59	1.0	0.04	12.0–70	0.47–2.76	10.0	32.81
SRPE-19-9	7TCG054090R0225	Natural	19.0	0.75	18.2	0.72	1.3	0.05	15.0–100	0.59–3.94	10.0	32.81
SRPE-24-9	7TCG054090R0227	Natural	24.0	0.94	19.6	0.77	1.5	0.06	20.0–130	0.79–5.12	10.0	32.81
SRPE-6-0	7TCG054090R0232	UV-resistant black	6.0	0.24	7.0	0.28	0.5	0.02	4.0–50	0.16–0.97	10.0	32.81
SRPE-8-0	7TCG054090R0238	UV-resistant black	8.0	0.31	10.8	0.43	0.5	0.02	6.0–60	0.24–25.59	10.0	32.81
SRPE-10-0	7TCG054090R0216	UV-resistant black	10.0	0.39	11.4	0.44	0.8	0.03	7.5–60	0.30–25.59	10.0	32.81
SRPE-12-0	7TCG054090R0220	UV-resistant black	12.0	0.47	13.9	0.55	0.9	0.04	9.0–65	0.35–2.56	10.0	32.81
SRPE-15-0	7TCG054090R0222	UV-resistant black	15.0	0.59	15.0	0.59	1.0	0.04	12.0–70	0.47–2.76	10.0	32.81
SRPE-19-0	7TCG054090R0224	UV-resistant black	19.0	0.75	18.2	0.72	1.3	0.05	15.0–100	0.59–3.94	10.0	32.81
SRPE-24-0	7TCG054090R0226	UV-resistant black	24.0	0.94	19.6	0.77	1.5	0.06	20.0–130	0.79–5.12	10.0	32.81

Dimensions



Spiral wraps

Extruded grommeting



Characteristics

- Used to line panel edges and knock-outs where the chafing of passing wires is a concern
- Available in 8 stock sizes in 30.5 m (100.07 ft) lengths for panels from 1 mm to 6.35 mm (0.04" to 0.25")
- In most applications, grommeting will grip tightly by itself; if not, a drop of epoxy will keep it in place

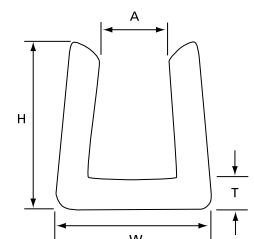
Technical information

- Material: Polyamide 6.6
- Temperature range: -40 °C to +85 °C (-40 °F to 185 °F)
- Color: Natural or black
- Flammability rating: UL 94 V-2
- Other properties: Halogen-free, silicone-free

Extruded grommeting

Product code	GID No.	Color	Dimensions									
			Internal width		Thickness							
			A		T		H		W		Length per reel	
			[mm]	[in]	[mm]	[in]	[mm]	[in]	[mm]	[in]	[m]	[ft]
GRNY-040-9-C	7TAG009750R0018	Natural	1.01	0.04	1.01	0.04	4.82	0.19	3.17	0.12	30.5	100.07
GRNY-052-9-C	7TAG009750R0021	Natural	1.32	0.05	1.01	0.04	4.82	0.19	3.17	0.12	30.5	100.07
GRNY-062-9-C	7TAG009750R0023	Natural	1.57	0.06	1.14	0.04	5.08	0.2	4.32	0.17	30.5	100.07
GRNY-085-9-C	7TAG009750R0026	Natural	2.15	0.08	1.14	0.04	5.08	0.2	4.32	0.17	30.5	100.07
GRNY-100-9-C	7TAG009750R0028	Natural	2.54	0.1	1.14	0.04	5.58	0.22	5.33	0.21	30.5	100.07
GRNY-125-9-C	7TAG009750R0031	Natural	3.17	0.12	1.27	0.05	5.58	0.22	5.23	0.21	30.5	100.07
GRNY-187-9-C	7TAG009750R0033	Natural	4.74	0.19	1.27	0.05	6.85	0.27	6.98	0.27	30.5	100.07
GRNY-250-9-C	7TAG009750R0035	Natural	6.35	0.25	1.27	0.05	7.11	0.28	9.39	0.37	30.5	100.07
GRNY-040-0-C	7TAG009750R0017	Black	1.01	0.04	1.01	0.04	4.82	0.19	3.17	0.12	30.5	100.07
GRNY-052-0-C	7TAG009750R0019	Black	1.32	0.05	1.01	0.04	4.82	0.19	3.17	0.12	30.5	100.07
GRNY-062-0-C	7TAG009750R0022	Black	1.57	0.06	1.14	0.04	5.08	0.2	4.32	0.17	30.5	100.07
GRNY-085-0-C	7TAG009750R0024	Black	2.15	0.08	1.14	0.04	5.08	0.2	4.32	0.17	30.5	100.07
GRNY-100-0-C	7TAG009750R0027	Black	2.54	0.1	1.14	0.04	5.58	0.22	5.33	0.21	30.5	100.07
GRNY-125-0-C	7TAG009750R0029	Black	3.17	0.12	1.27	0.05	5.58	0.22	5.23	0.21	30.5	100.07
GRNY-187-0-C	7TAG009750R0032	Black	4.74	0.19	1.27	0.05	6.85	0.27	6.85	0.27	30.5	100.07
GRNY-250-0-C	7TAG009750R0034	Black	6.35	0.25	1.27	0.05	7.11	0.28	9.39	0.37	30.5	100.07

Dimensions



Cable tie tooling

Ty-Rap® and Ty-Met™ tooling

ABB offers a comprehensive selection of tooling to complement the full range of cable ties. The range includes low-cost tools for maintenance and small batch requirements, as well as robust and ergonomic tools with tension setting and automatic cutting, now also in pneumatic versions.

In particular, the ERG50 and ERG120 hand tools provide a superior level of reliability and performance, combined with enhanced ergonomics and comfort of use.

These ergonomic tools, with adjustable tension and automatic cutting, are ideally suited for efficiently installing all kinds of plastic cable ties in industrial (original equipment manufacturers, maintenance and repair organizations, etc.) and construction applications.

ERG50 and ERG120

Superior reliability and performance

- Developed to meet the market needs for a more rugged and longer-lasting tool
- Designed to integrate the greatest number of features in the market

Enhanced ergonomics and comfort of use

- First-class design and materials, for maximum convenience
- The operator is subject to less stress, less fatigue and less risk of trauma due to long-term use

Increased efficiency

- Exclusive features for quick set-up and fast installation
- Confidence to achieve a highly professional result, installation after installation



Cable tie tooling

Selection guide

Tooling for plastic ties

	Product code	GID No.	Features	Tensioning	Cutting	For cable ties
	ERG50	7TAA131790R0001	Ergonomic hand tool with superior level of reliability and performance	Adjustable	Automatic	2.4 mm–4.8 mm (0.04"–0.19")
	ERG50B	7TCA131140R0017	Replacement blade for ERG50 hand tool			
	ERG120	7TAA131790R0000	Ergonomic hand tool with superior level of reliability and performance	Adjustable	Automatic	4.8 mm–7.6 mm (0.19"–0.30")
	ERG120B	7TCA131140R0014	Replacement blade for ERG120 hand tool			
	WT3D	7TAA131800R0008	Robust metal body with plastic hand-grips, designed for tensioning and cutting heavy-duty cable ties	Basic	Twist cut	7.6 mm–12.7 mm (0.30"–0.5")

Tooling for Ty-Met™ stainless steel ties

	Product code	GID No.	Features	Tensioning	Cutting	For cable ties
	DAS250	7TAA131800R0000	Heavy-duty metallic hand tool	Basic	Manual	Ladder-type stainless steel cable ties up to 7.88 mm (0.31") tie width

Cable tie tooling

Tools for plastic cable ties: ERG50 and ERG120

These ergonomic tools from ABB provide a superior level of reliability and performance, combined with enhanced ergonomics and comfort of use. With their adjustable tension and automatic cutting, they are

ideally suited for efficiently installing all kinds of plastic cable ties in industrial (original equipment manufacturers, maintenance and repair organizations, etc.) and construction applications.



ERG50 tool in use



Cable tie tooling

Tools for plastic cable ties



Product code: WT3D

GID No.: 7TAA131800R0008

Characteristics

- Designed for tensioning and cutting heavy-duty cable ties
- Robust metal body with plastic hand-grips

Technical information

- Tool type: Hand tool for Deltec® ties, Col-Ty™ installation ties and other wide cable ties
- For type of cable tie: Plastic ties
- For tie width: 7.6 mm–12.7 mm (0.30"–0.5")
- Features: Tensioning, manual cutting (by twisting the tool)
- Weight: 225 g
- Dimensions [L x W x H]: 178 x 112 x 20 mm (7.01" x 4.41" x 0.79")



Product code: WT1-TB

GID No.: 7TAA131800R0004

Characteristics

- Twist-and-cut tensioning tool in plastic, intended for maintenance and small batch use

Technical information

- Tool type: Low-cost hand tool
- Color: Orange
- For type of cable tie: Plastic ties
- For tie width: 2.4 mm–4.8 mm (0.09"–0.19")
- Features: Basic tensioning, twist cut
- Weight: 28.4 g
- Dimensions [L x W x H]: 134 x 55 x 27 mm (5.28" x 2.17" x 1.06")



Product code: WT2-TB

GID No.: 7TAA131800R0007

Characteristics

- Twist-and-cut tensioning tool in plastic, intended for maintenance and small batch use

Technical information

- Tool type: Low-cost hand tool
- Color: Black
- For type of cable tie: Plastic ties
- For tie width: 4.8 mm–7.6 mm (0.19"–0.30")
- Features: Basic tensioning, twist cut
- Weight: 28.4 g
- Dimensions [L x W x H]: 134 x 55 x 27 mm (5.28" x 2.17" x 1.06")

Cable tie tooling

Tools for stainless steel cable ties



Product code: DAS250

GID No.: 7TAA131800R0000

Characteristics

- Heavy-duty metallic hand tool
- Tensioning tool with side cutters

Technical information

- Tool type: Hand tool
- For type of cable tie: Ladder-type stainless steel ties
- For tie width: Up to 7.9 mm (0.311")
- Features: Tensioning tool with side cutters

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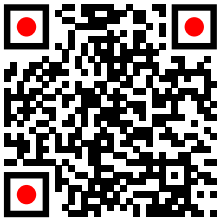
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