

All plastic cable ties

Ty-Fast[®], Col-Ty[™], Safe-Ty[™] and Ty-Grip[™]

ABB offers a complete range of all plastic cable ties to cover the most demanding applications.

Ty-Fast[®] All plastic ties

The all-plastic cable ties are available in lengths from 112 mm to 1214 mm and widths from 2.4 mm to 13.2 mm, offering a loop tensile strength up to 1120 N. Those cable ties will satisfy bundling requirements up to 381 mm. Those cable ties are halogen and silicone free Polyamide 6.6 and are available in 12 different colours.

Ty-Fast[®] cable ties meet shipbuilding classification such as Germanischer Lloyd/DNV-GL, Lloyd's Register of Shipping, Bureau Veritas but also Mil Specification and QPL. Ty-Fast[®] cable ties have a CE declaration, supported by compliance to the low voltage directive and EN/IEC 62275 and UL 62275.

State-of-the-art robotic and raw material handling equipment assures product and material integrity throughout the manufacturing process. The integrally formed Polyamide pawl combines low insertion and high locking strength.

A rounded, low-profile head makes for less snags, tails have improved two-sided finger grip design that helps the operator grasp and pull ties snug. The Sure Grip tab keeps the tail from popping out while being threaded, then holds it securely for final tightening by hand or tool.

Heavy duty installation ties

Col-Ty[™] -the heavy installation tie - is mainly used for securing and bundling of cables in the utility and construction industries.

Col-Ty[™] is ideal for hazardous environments, low temperatures and humidity. Col-Ty[™] has a low profile double locking head with serration on the outer side of the tie, which eliminates the risk of damage to the cable.

Low-profile inline fasteners

The Safe-Ty[™] design from ABB is ideal for use where precision bundling is required and clearance is a necessity. A unique saddle back design curves to form a snug fit around the bundle, and allows for easy pull-through in bulkheads and any other tight spaces.

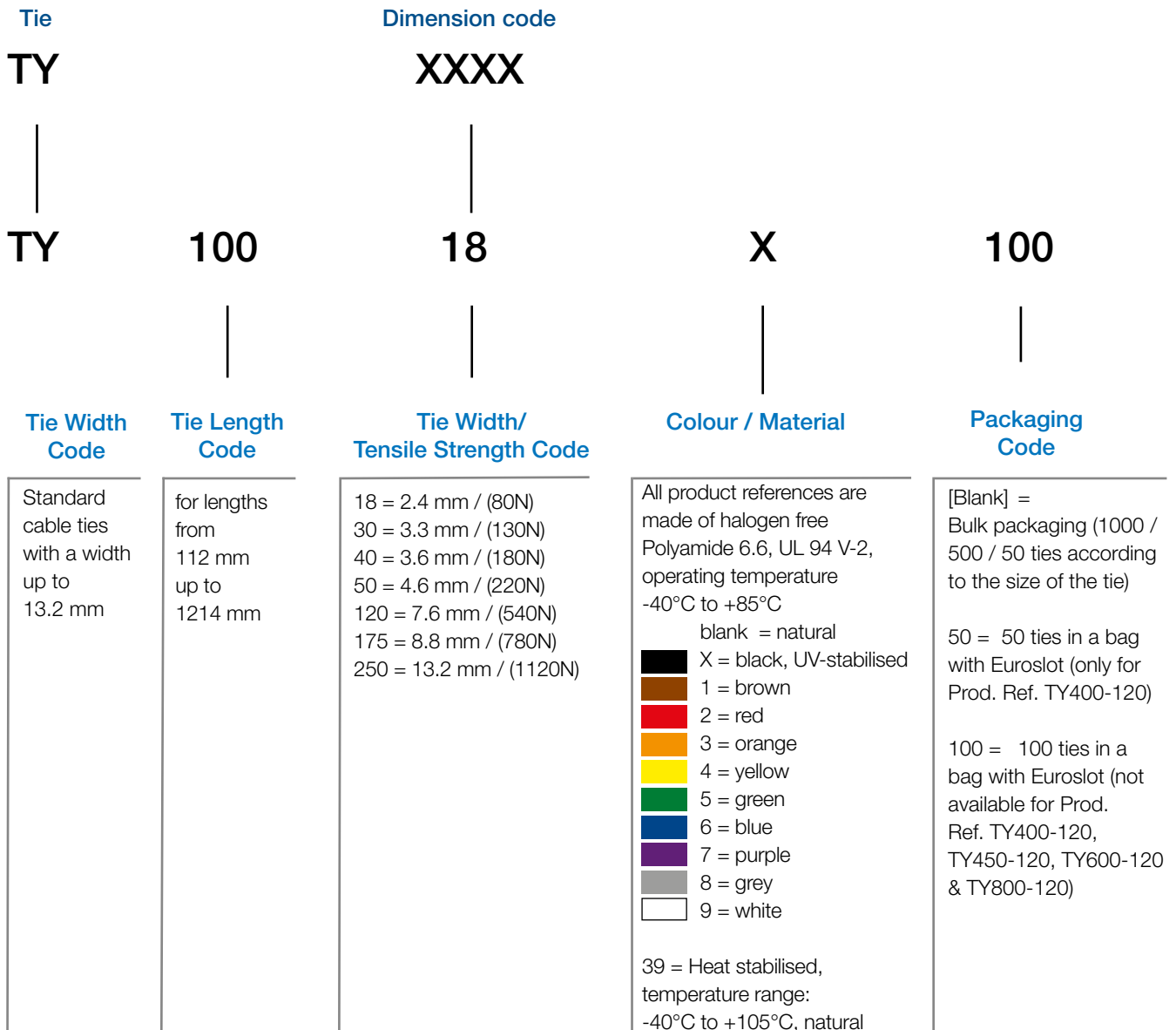
Hook & loop fasteners

Ty-Grip[™] cable ties are very easy to release and re-use, making them ideal for applications where changes are anticipated or continuous access is required. There is no risk of over-tightening the cables, which makes the Ty-Grip[™] hook & loop fasteners ideal for specific applications in fiber optics, computer network wiring, telecom cables, etc.

All plastic cable ties

Product reference structure

Ty-Fast® code



Note: Nylon (Polyamide) is inherently susceptible to environmental conditions. Ty-Fast® cable ties are moisturised 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

All plastic cable ties

Standard cable ties

Characteristics

State-of-the-art robotic and raw material handling equipment assures product and material integrity throughout the manufacturing process.

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

Technical Information

Material	Polyamide 6.6 (*)
Temperature range	-40°C to +85°C (natural and colours, excl. UV-resistant black) -40°C to +105°C (black)
Min. Installation Temp.	-20°C
Colour	Natural as standard colour (*)
Approvals	MIL: MS 3367-x (see table)
Flammability rating	UL 94 V-2
Other properties	Halogen free, Silicone free

(*) For other materials and colours see the product reference structure page 46



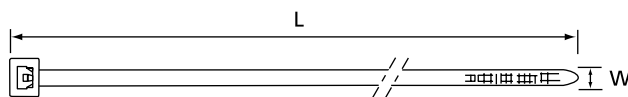
Product Ref.	MIL Spec.	Length	Width	Bundle ø	Min. tensile strength	Quantity	Tooling	
		L [mm]	W [mm]	from ... to [mm]	[N]	[pieces]		
TY100-18	MS-3367-4	115	2.4	1.5 - 25	80	1000	ERG50	
TY125-18	-	140	2.4	1.5 - 32	80	1000		
TY150-18	-	157	2.4	1.5 - 38	80	1000		
TY125-30	-	143	3.3	1.5 - 32	130	1000		
TY125-40*	MS-3367-5	143	3.6	1.5 - 32	180	1000		
TY200-40	-	205	3.6	1.5 - 50	180	1000		
TY300-40	-	292	3.6	1.5 - 76	180	1000		
TY400-40	-	370	3.6	6.35 - 102	180	1000		
TY125-50	-	163	4.8	1.5 - 32	220	1000		ERG50 ERG120
TY175-50	MS-3367-1	188	4.8	3.17 - 44	220	1000		
TY225-50	-	228	4.8	3.17 - 57	220	1000		
TY300-50	MS-3367-7	304	4.8	3.17 - 76	220	1000		
TY400-50	MS-3367-2	365	4.8	3.17 - 102	220	1000	ERG120 L-500-EU WT3D	
TY200-120	-	220	7.6	15 - 50	540	500		
TY300-120	-	288	7.6	15 - 76	540	100		
TY400-120	MS-3367-3	374	7.6	15 - 102	540	50/100		
TY450-120	-	456	7.6	15 - 124	540	50		
TY600-120	-	634	7.6	15 - 184	540	50		
TY800-120	MS-3367-6	718	7.6	6.35 - 204	540	50		

* Operation temperature: -30°C to +85°C

Description of Product Reference structure: see page 46

Description of materials and properties: see pages 144 to 155

For tooling specifications: see pages 130 to 143



E49405



** Some approvals may not be applicable to all the Product References. Contact your Sales Office for approvals limitations