
BROCHURE

Ty-Met™ stainless steel cable ties

Corrosion-resistant protection
for electrical systems

Ty-Met™



Ty-Met™ stainless steel cable ties

Overview

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

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



Angled/rounded tail, for safer handling and easier insertion

Rounded edges and smooth surfaces, for fast and safe hand installation
Uncoated or fully coated with non-toxic, halogen-free polyester

Ball-lock retained tension type

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



Convenience of a ball-lock fastening mechanism with a spring crimp that maintains tension after installation

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



Ty-Met™ ball-lock type cable ties

Type 316 stainless steel — 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

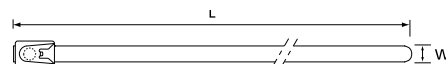
Some approvals may not be applicable to all product codes.
Contact your Sales Office for approval limitations.

Tooling



DAS250
For use with 175 to 250 lb cable ties.

Dimensions



Ty-Met™ ball-lock type cable ties

Type 304 and Type 316 stainless steel — 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

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

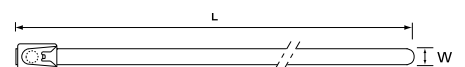
Product code	GID No.	Bundle ø from ... to		Length L		Width W		Min. tensile strength [lb/N]	Quantity [pieces]
		[mm]	[in]	[mm]	[in]	[mm]	[in]		
LS-4.6-200A	7TAG009410R0000	50	2	200	7.9	4.75	0.187	200 (890)	50
LS-4.6-260A	7TAG009410R0002	70	2.7	260	10.2	4.75	0.187	200 (890)	1000
LS-4.6-360A	7TAG009410R0004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

Tooling



DAS250
For use with 175 to 250 lb cable ties.

Dimensions



Ty-Met™ ball-lock type cable ties

Type 304 and 316 stainless steel — 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

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

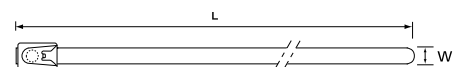
Product code	GID No.	Bundle ø from ... to		Length L		Width W		Min. tensile strength [lb/N]	Quantity [pieces]
		[mm]	[in]	[mm]	[in]	[mm]	[in]		
LS-7.9-200A	7TAG009420R0018	50	2	200	7.9	7.75	0.305	450 (2002)	50
LS-7.9-360A	7TAG009410R0006	70	2.7	360	14.2	7.75	0.305	450 (2002)	50
LS-7.9-520A	7TAG009410R0008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

Tooling



DAS250
For use with 175 to 250 lb cable ties.

Dimensions



Ty-Met™ Multi-Lok type cable ties

Type 316 stainless steel — Fully coated and 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
 - 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

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

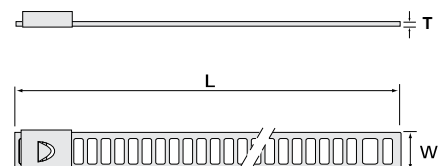
Multi-Lok type — Fully coated and uncoated



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]		
Multi-Lok, coated 316									
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
Multi-Lok, uncoated 316									
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.
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Dimensions





US

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