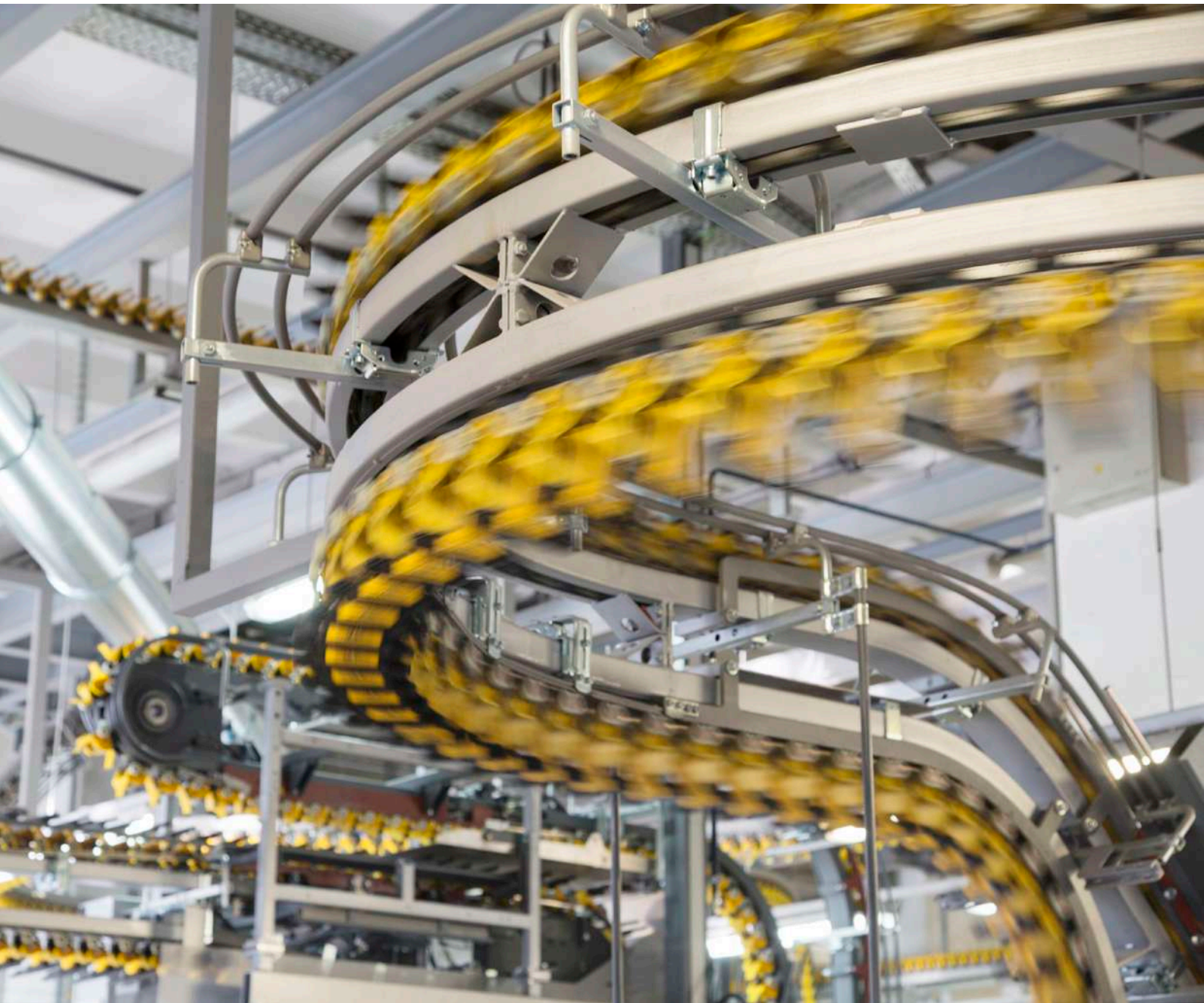
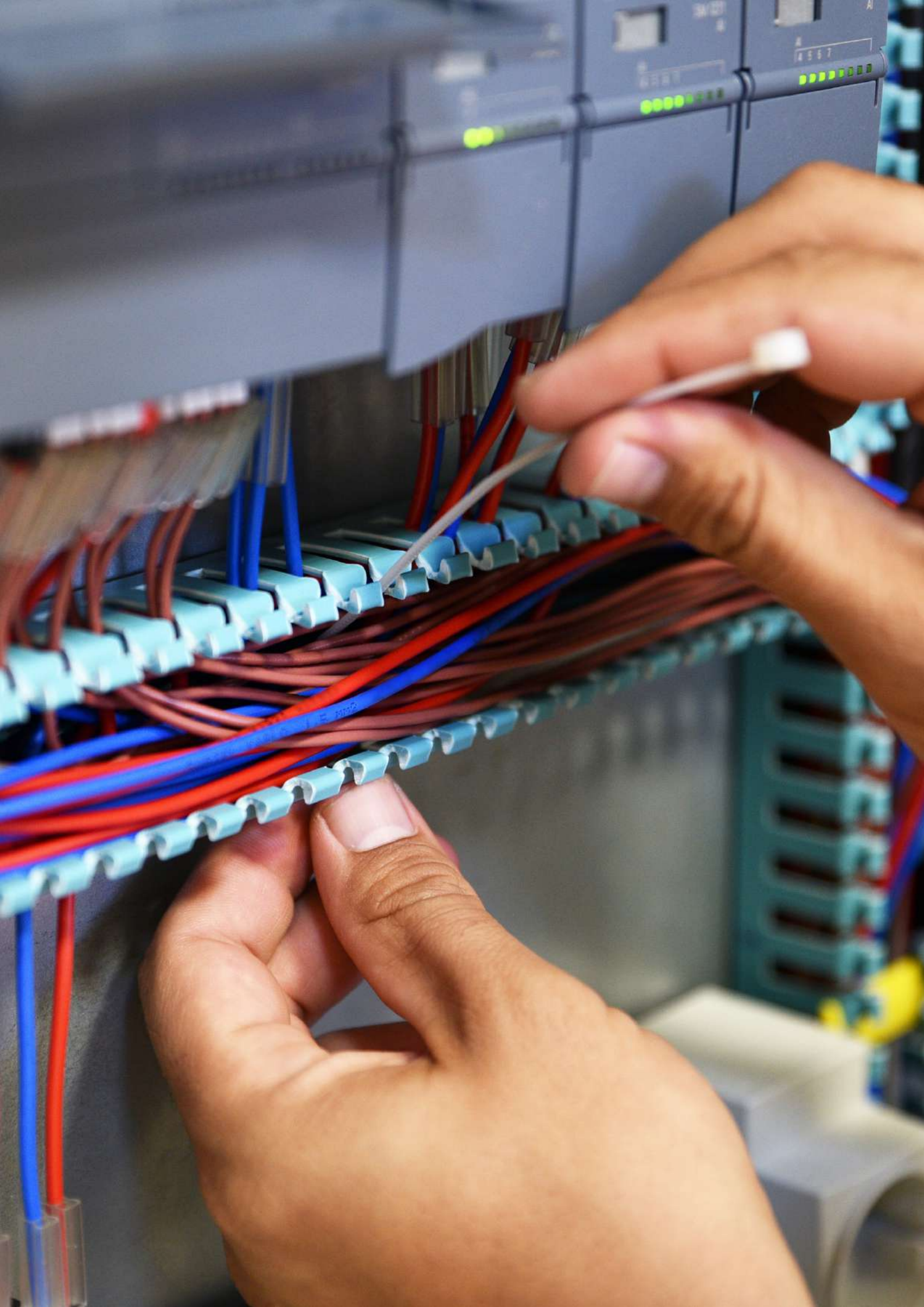
Ty-Fast® Fastening solutions

Easily bundle, secure and manage your cables

Ty-Fast®





Ty-Fast® plastic cable ties

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

Ty-Fast® all plastic ties
The all-plastic cable ties are available in lengths from 100mm to 1220mm and widths from 2,5mm to 12,4mm, offering a loop tensile strength up to 1200 N. These cable ties will satisfy bundling requirements up to 375,5mm. Made of halogen and silicone free Polyamide 6.6, Ty-Fast® cable ties are available in natural and black UV-resistant and heat stabilized material.

Ty-Fast® cable ties meet shipbuilding classification such as DNV-GL, Lloyd's Register of Shipping, Bureau Veritas. Ty-Fast® cable ties have a CE declaration, supported by compliance to the low voltage directive and EN/IEC 62275. On top the Ty-Fast® range is also compliant to 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.

The low profile head significantly reduces the potential for snagging during installation.

Quick and easy pull through increases productivity, reduces operator fatigue.

Tail with finger grip design that helps operator grasp and pull ties snugly.

Sure grip tab keeps the tail from popping out while being treated, then holds it securely for final tightening by hand or tool.

Ty-Fast® cable ties for demanding applications
An all-in one solution:
UV resistant and with enhanced temperature range.

All plastic cable ties

Ty-Fast® product code structure

Tie	Dimension code	Special type code	
TY	**XXXX**	**X**	
TY 100	**18**	**X**	**100**
Tie length code	Tie width/tensile strength code	Color/material	Packaging code
for lengths from 100mm up to 1220mm	18 = 2.5 mm / (80N) 40 = 3.6 mm / (180N) 50 = 4.7 / 4.8 mm / (222N) 120 = 7.6 mm / (540N/550N) 175 = 8.8 mm / (800N) 245 = 12,4 mm / (1200N)	X The letter "X" is used in the item number to define black UV-resistant cable ties All product references are made of halogen free and silicone free Polyamide 6.6	Blank = Bulk packaging (500, 1000 ties per bag depending on the cable tie dimension) 50 = 50 ties in a bag 100 = 100 ties in a bag L = 50 ties in a bag C = 100 ties in a bag D = 500 ties in a bag M = 1000 ties in a bag

Note: Nylon (Polyamide 6.6) 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.

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

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

The **integrally formed pawl** combines low insertion and high locking strength.

Ty-Fast® cable ties

Natural - Distribution packaging

Characteristics

- Suitable for indoor applications
- Material: Polyamide 6.6
- Color: Natural
- Halogen and silicone free
- Packaging: 50 pieces or 100 pieces per bag

Technical features

- Length: from 100mm to 1220mm
- Tensile strength: from 80N to 1200N
- Bundle diameter: from 1.5mm to 375.5mm
- Operating temperature: -40°C to 85°C
- Minimum installation temperature: -20°C
- Flammability rating: UL 94V-2

Natural - Distribution packaging

E49405

Product code	GID No.	Bundle ø from ... to [mm]	Length L [mm]	Width W [mm]	Min. tensile strength [N]	Quantity [pieces]
Standard pack size						
TY100-18-C	7TCG054360R0420	1,5 - 20,5	100	2,5	80	100
TY125-18-C	7TCG054360R0422	1,5 - 36,5	150	2,5	80	100
TY200-18-C	7TCG054360R0424	1,5 - 52,5	200	2,5	80	100
TY125-40-100*	7TAG054360R0125	1,5 - 32	143	3,6	180	100
TY200-40-C	7TCG054360R0426	2,0 - 52,5	203	3,6	180	100
TY300-40-100	7TCG054360R0241	6,4 - 76	290	3,6	180	100
TY400-40-100	7TAG054360R0312	6,35 - 102	370	3,6	180	100
TY175-50-100	7TAG054360R0157	3,17 - 44	188	4,7	222	100
TY225-50-100	7TCG054360R0231	3,17 - 57	228	4,7	222	100
TY300-50-100	7TAG054360R0260	3,17 - 76	304	4,7	222	100
TY400-50-100	7TAG054360R0316	3,17 - 102	366	4,7	222	100
TY450-50-C	7TCG054290R0033	3,0 - 122,5	430	4,8	222	100
TY200-120-C	7TCG054360R0428	6,0 - 56	220	7,6	550	100
TY400-120-100	7TCG054360R0284	15 - 102	374	7,6	540	100
TY450-120-L	7TCG054410R0023	6,0 - 130,5	450	7,6	550	50
TY600-120-L	7TCG054410R0024	6,0 - 181,5	610	7,6	550	50
TY800-120-L	7TCG054410R0025	6,0 - 226	750	7,6	550	50
TY600-175-L	7TCG054530R0025	7,0 - 181,5	610	8,8	800	50
TY900-175-L	7TCG054510R0009	7,0 - 280	920	8,8	800	50
TY1000-175-L	7TCG054520R0005	7,0 - 295	1020	8,8	800	50
TY1200-175-L	7TCG054520R0006	7,0 - 375,5	1220	8,8	800	50
TY500-245-L**	7TCG054510R0010	9,0 - 156	530	12,4	1200	50
TY720-245-L**	7TCG054510R0011	9,0 - 216	730	12,4	1200	50
TY1050-245-L**	7TCG054510R0012	9,0 - 323	1030	12,4	1200	50

* Operating temperature: -30°C to +85°C.
** Minimum installation temperature: -10°C

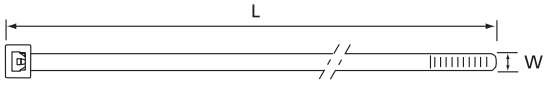
Tooling

ERG50
For use with 2,4mm to 4,8mm (80N to 220N) cable ties.

ERG120
For use with 4.8mm to 7,6mm (220N to 540N) cable ties.

WT3D
For use with 7.6mm to 12.7mm (540N to 1200N) cable ties.

Dimensions



Ty-Fast® cable ties

Natural - OEM packaging

Characteristics

- Suitable for indoor applications
- Material: Polyamide 6.6
- Color: Natural
- Halogen and silicone free
- Packaging: 500 pieces or 1000 pieces per bag

Technical features

- Length: from 100mm to 430mm
- Tensile strength: from 80N to 540N
- Bundle diameter: from 1.5mm to 122.5mm
- Operating temperature: -40°C to 85°C
- Minimum installation temperature: -20°C
- Flammability rating: UL 94V-2

Natural - OEM packaging

E49405

Product code	GID No.	Bundle ø from ... to [mm]	Length L [mm]	Width W [mm]	Min. tensile strength [N]	Quantity [pieces]
Bulk pack size						
TY100-18-M	7TCG054360R0421	1,5 - 20,5	100	2,5	80	1000
TY125-18-M	7TCG054360R0423	1,5 - 36,5	150	2,5	80	1000
TY200-18-M	7TCG054360R0425	1,5 - 52,5	200	2,5	80	1000
TY125-40*	7TAG054360R0123	1,5 - 32	143	3,6	180	1000
TY200-40-M	7TCG054360R0427	2,0 - 52,5	203	3,6	180	1000
TY300-40	7TCG054360R0240	6,4 - 76	290	3,6	180	1000
TY400-40	7TAG054360R0311	6,35 - 102	370	3,6	180	1000
TY175-50	7TAG054360R0153	3,17 - 44	188	4,7	222	1000
TY225-50	7TCG054360R0230	3,17 - 57	228	4,7	222	1000
TY300-50	7TAG054360R0259	3,17 - 76	304	4,7	222	1000
TY400-50	7TAG054360R0315	3,17 - 102	366	4,7	222	1000
TY450-50-D	7TCG054290R0037	3,0 - 122,5	430	4,8	222	500
TY200-120-D	7TCG054360R0429	6,0 - 56	220	7,6	550	500
TY400-120	7TAG054360R0282	15 - 102	374	7.6	540	500

* Operating temperature: -30°C to +85°C.

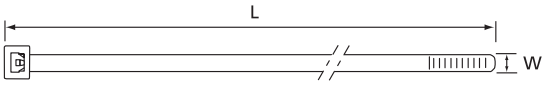
Tooling

ERG50
For use with 2,4mm to 4,8mm (80N to 220N) cable ties.

ERG120
For use with 4,8mm to 7,6mm (220N to 540N) cable ties.

WT3D
For use with 7.6mm to 12.7mm (540N to 1200N) cable ties.

Dimensions



Ty-Fast® cable ties

Black UV-resistant and heat stabilized - Distribution packaging

Characteristics

- Suitable for indoor and outdoor applications
- Heat stablised + UV-resistant, for outdoor applications that also require a resistance to high temperature +115°C
- Material Polyamide 6.6
- Color: black
- Halogen and silicone free
- Packaging: 50 pieces or 100 pieces per bag

Technical information

- Length: from 100mm to 1220mm
- Tensile strength: from 80N to 120N
- Bundle diameter: from 1.5mm to 375.5mm
- Operating temperature: -40°C to 115°C
- All items without suffix L, C, M and D have a maximum operating temperature of 105°C
- Minimum installation temperature: -20°C
- Flammability rating: UL 94V-2

E49405

Black UV-resistant and heat stabilized

Product code	GID No.	Bundle ø from ... to [mm]	Length L [mm]	Width W [mm]	Min. tensile strength [N]	Quantity [pieces]
Standard pack size						
TY100-18X-C	7TCG054360R0430	1,5 - 20,5	100	2,5	80	100
TY125-18X-C	7TCG054360R0432	3,0 - 36,5	150	2,5	80	100
TY200-18X-C	7TCG054360R0434	3,0 - 52,5	200	2,5	80	100
TY125-40X-100*	7TAG054360R0142	1,5 - 32	143	3,6	180	100
TY200-40X-C	7TCG054360R0436	3,0 - 52,5	203	3,6	180	100
TY300-40X-100	7TCG054360R0257	6,4 - 76	290	3,6	180	100
TY400-40X-100	7TAG054360R0314	6,35 - 102	370	3,6	180	100
TY175-50X-100	7TAG054360R0179	3,17 - 44	188	4,7	222	100
TY225-50X-100	7TCG054360R0237	3,17 - 57	228	4,7	222	100
TY300-50X-100	7TAG054360R0279	3,17 - 76	304	4,7	222	100
TY400-50X-100	7TAG054360R0337	3,17 - 102	366	4,7	222	100
TY450-50X-C	7TCG054290R0035	3,0 - 122,5	430	4,8	222	100
TY200-120X-C	7TCG054360R0438	6,0 - 56	220	7,6	550	100
TY400-120X-100	7TCG054360R0308	15 - 102	374	7,6	540	100
TY450-120X-L	7TCG054410R0026	6,0 - 130,5	450	7,6	550	50
TY600-120X-L	7TCG054410R0027	6,0 - 181,5	610	7,6	550	50
TY800-120X-L	7TCG054410R0028	6,0 - 226	750	7,6	550	50
TY600-175X-L	7TCG054530R0026	9,0 - 181,5	610	8,8	800	50
TY900-175X-L	7TCG054510R0013	9,0 - 280	920	8,8	800	50
TY1000-175X-L	7TCG054520R0007	9,0 - 295	1020	8,8	800	50
TY1200-175X-L	7TCG054520R0008	9,0 - 375,5	1220	8,8	800	50
TY500-245X-L	7TCG054510R0014	9,0 - 156	530	12,4	1200	50
TY720-245X-L	7TCG054510R0015	9,0 - 216	730	12,4	1200	50
TY1050-245X-L	7TCG054510R0016	9,0 - 323	1030	12,4	1200	50

* Operating temperature: -30°C to +105°C.

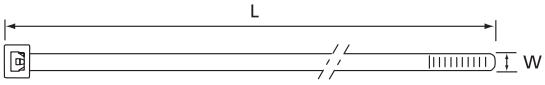
Tooling

ERG50
For use with 2,4mm to 4,8mm (80N to 220N) cable ties.

ERG120
For use with 4,8mm to 7,6mm (220N to 540N) cable ties.

WT3D
For use with 7.6mm to 12.7mm (540N to 1200N) cable ties.

Dimensions



Ty-Fast® cable ties

Black UV-resistant and heat stabilized - OEM packaging

Characteristics

- Suitable for indoor and outdoor applications
- Heat stablised + UV-resistant, for outdoor applications that also require a resistance to high temperature +115°C
- Material Polyamide 6.6
- Color: black
- Halogen and silicone free
- Packaging: 500 pieces or 1000 pieces per bag

Technical features

- Length: from 100mm to 430mm
- Tensile strength: from 80N to 540N
- Bundle diameter: from 1.5mm to 122.5mm
- Operating temperature: -40°C to 115°C
- All items without suffix L, C, M and D have a maximum operating temperature of 105°C
- Minimum installation temperature: -20°C
- Flammability rating: UL 94V-2

E49405

Black UV-resistant and heat stabilized

Product code	GID No.	Bundle ø from ... to [mm]	Length L [mm]	Width W [mm]	Min. tensile strength [N]	Quantity [pieces]
Bulk pack size						
TY100-18X-M	7TCG054360R0431	1,5 - 20,5	100	2,5	80	1000
TY125-18X-M	7TCG054360R0433	3,0 - 36,5	150	2,5	80	1000
TY200-18X-M	7TCG054360R0435	3,0 - 52,5	200	2,5	80	1000
TY125-40X*	7TAG054360R0141	1,5 - 32	143	3,6	180	1000
TY200-40X-M	7TCG054360R0437	3,0 - 52,5	203	3,6	180	1000
TY300-40X	7TCG054360R0256	6,4 - 76	290	3,6	180	1000
TY400-40X	7TAG054360R0313	6,35 - 102	370	3,6	180	1000
TY175-50X	7TAG054360R0178	3,17 - 44	188	4,7	222	1000
TY225-50X	7TCG054360R0236	3,17 - 57	228	4,7	222	1000
TY300-50X	7TAG054360R0278	3,17 - 76	304	4,7	222	1000
TY400-50X	7TAG054360R0336	3,17 - 102	366	4,7	222	1000
TY450-50X-D	7TCG054290R0038	3,0 - 122,5	430	4,8	222	500
TY200-120X-D	7TCG054360R0439	6,0 - 56	220	7,6	550	500
TY400-120X	7TAG054360R0307	15 - 102	374	7,6	540	500

* Operating temperature: -30°C to +105°C.

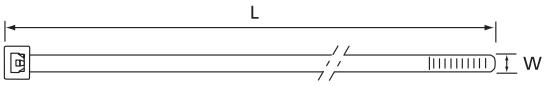
Tooling

ERG50
For use with 2,4mm to 4,8mm (80N to 220N) cable ties.

ERG120
For use with 4,8mm to 7,6mm (220N to 540N) cable ties.

WT3D
For use with 7.6mm to 12.7mm (540N to 1200N) cable ties.

Dimensions



Un
Ur
Non
Ron
I on
N 常闭
O Off
I on
R 常闭
Manual
手动
Auto
自动

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