

TECHNICAL DATA SHEET - INTERACTIVE PDF

Cable Ties, natural and black UV-resistant and heat stabilized

Ty-Fast®



01 Natural cable tie
02 Black UV-resistant and heat stabilized cable tie

Ratings:

- Tensile strength: 80N to 1200N
- Minimum installation temperature: -10° / -20°C
- Operating temperature: -40°C to 115°C

Material / Finishes:

- Polyamide 6.6:
 - Natural
 - Black, UV-resistant and heat stabilized

Installation tools:

- ERG50
- ERG120
- WT3D

Cable ties are primarily used to cinch wires and cables together to form a neat and organized bundle.

Certifications / Standards:



3-Part Specification: Tools and Calculators

Conforms to:

- UL 62275 - Type 2
- UL94 - V2
- EN IEC 62275 - Type 2
- DNV-GL
- Bureau Veritas
- Lloyd's Register
- REACH
- RoHS (Restriction of Hazardous Substances)

Table data:

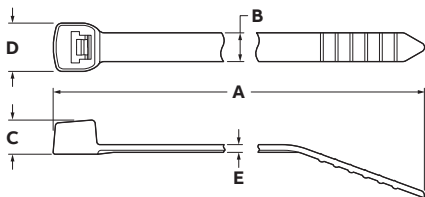
- [Cable ties, natural](#)
- [Cable ties, black UV-resistant and heat stabilized](#)

Cable ties, natural

Product selection and dimensions

Part no.	Min. bundle diameter	Max. bundle diameter	A +/- 3% mm	B +/- 3% mm	C +/- 3% mm	D +/- 3% mm	E +/- 3% mm	Min. Installation temp	Operating temp	Tensile strength (N)
TY100-18-C	1.5	20.5	100	2.5	4.0	4.6	1.0	-20°C	-40°C to 85°C	80
TY100-18-M	1.5	20.5	100	2.5	4.0	4.6	1.0	-20°C	-40°C to 85°C	80
TY125-18-C	1.5	36.5	150	2.5	4.0	4.6	1.1	-20°C	-40°C to 85°C	80
TY125-18-M	1.5	36.5	150	2.5	4.0	4.6	1.1	-20°C	-40°C to 85°C	80
TY200-18-C	1.5	52.5	200	2.5	4.0	4.6	1.1	-20°C	-40°C to 85°C	80
TY200-18-M	1.5	52.5	200	2.5	4.0	4.6	1.1	-20°C	-40°C to 85°C	80
TY125-40-100*	1.5	32.0	143	3.6	4.4	6.1	1.2	-20°C	-40°C to 85°C	180
TY125-40*	1.5	32.0	143	3.6	4.4	6.1	1.2	-20°C	-40°C to 85°C	180
TY200-40-C	2.0	52.5	203	3.6	4.8	6.5	1.2	-20°C	-40°C to 85°C	180
TY200-40-M	2.0	52.5	203	3.6	4.8	6.5	1.2	-20°C	-40°C to 85°C	180
TY300-40-100*	6.4	76.0	290	3.6	4.4	6.1	1.2	-20°C	-30°C to 85°C	180
TY300-40*	6.4	76.0	290	3.6	4.4	6.1	1.2	-20°C	-30°C to 85°C	180
TY400-40-100*	6.4	102.0	370	3.6	4.4	6.1	1.2	-20°C	-40°C to 85°C	180
TY400-40*	6.4	102.0	370	3.6	4.4	6.1	1.2	-20°C	-40°C to 85°C	180
TY175-50-100*	3.2	44.0	188	4.7	5.6	7.9	1.2	-20°C	-40°C to 85°C	222
TY175-50*	3.2	44.0	188	4.7	5.6	7.9	1.2	-20°C	-40°C to 85°C	222
TY225-50-100*	3.2	57.0	228	4.7	5.6	7.9	1.2	-20°C	-40°C to 85°C	222
TY225-50*	3.2	57.0	228	4.7	5.6	7.9	1.2	-20°C	-40°C to 85°C	222
TY300-50-100*	3.2	76.0	304	4.7	5.6	7.9	1.2	-20°C	-40°C to 85°C	222
TY300-50*	3.2	76.0	304	4.7	5.6	7.9	1.2	-20°C	-40°C to 85°C	222
TY400-50-100*	3.2	102.0	366	4.7	5.6	7.9	1.2	-20°C	-40°C to 85°C	222
TY400-50*	3.2	102.0	366	4.7	5.6	7.9	1.2	-20°C	-40°C to 85°C	222
TY450-50-C	3.0	122.5	430	4.8	5.8	8.6	1.3	-20°C	-40°C to 85°C	222
TY450-50-D	3.0	122.5	430	4.8	5.8	8.6	1.3	-20°C	-40°C to 85°C	222
TY200-120-C	6.0	56.0	220	7.6	7.5	12.0	1.4	-20°C	-40°C to 85°C	550
TY200-120-D	6.0	56.0	220	7.6	7.5	12.0	1.4	-20°C	-40°C to 85°C	550
TY400-120-100*	15.0	102.0	374	7.6	7.9	12.2	1.9	-20°C	-40°C to 85°C	540
TY400-120*	15.0	102.0	374	7.6	7.9	12.2	1.9	-20°C	-40°C to 85°C	540
TY450-120-L	6.0	130.5	450	7.6	7.5	12.0	1.5	-20°C	-40°C to 85°C	550
TY600-120-L	6.0	181.5	610	7.6	7.5	12.0	1.6	-20°C	-40°C to 85°C	550
TY800-120-L	6.0	226.0	750	7.6	7.5	12.0	1.6	-20°C	-40°C to 85°C	550
TY600-175-L	7.0	181.5	610	8.8	9.6	14.4	1.6	-20°C	-40°C to 85°C	800
TY900-175-L	7.0	280.0	920	8.8	9.6	14.4	1.7	-20°C	-40°C to 85°C	800
TY1000-175-L	7.0	295.0	1020	8.8	9.6	14.4	1.7	-20°C	-40°C to 85°C	800
TY1200-175-L	7.0	375.5	1220	8.8	9.6	14.4	1.8	-20°C	-40°C to 85°C	800
TY500-245-L	9.0	156.0	530	12.4	10.0	20.0	1.9	-10°C	-40°C to 85°C	1200
TY720-245-L	9.0	216.0	730	12.4	10.0	20.0	1.9	-10°C	-40°C to 85°C	1200
TY1050-245-L	9.0	323.0	1030	12.4	10.0	20.0	1.9	-10°C	-40°C to 85°C	1200

* Conforms to Bureau Veritas, Lloyd's Register and DNV-GL



Cable ties, black UV-resistant and heat stabilized

Product selection and dimensions

Part no.	Min. bundle diameter	Max. bundle diameter	A +/- 3% mm	B +/- 3% mm	C +/- 3% mm	D +/- 3% mm	E +/- 3% mm	Min. Installation temp	Operating temp	Tensile strength (N)
TY100-18X-C	1.5	20.5	100	2.5	4.0	4.6	1.0	-20°C	-40°C to 115°C	80
TY100-18X-M	1.5	20.5	100	2.5	4.0	4.6	1.0	-20°C	-40°C to 115°C	80
TY125-18X-C	3.0	36.5	150	2.5	4.0	4.6	1.1	-20°C	-40°C to 115°C	80
TY125-18X-M	3.0	36.5	150	2.5	4.0	4.6	1.1	-20°C	-40°C to 115°C	80
TY200-18X-C	3.0	52.5	200	2.5	4.0	4.6	1.1	-20°C	-40°C to 115°C	80
TY200-18X-M	3.0	52.5	200	2.5	4.0	4.6	1.1	-20°C	-40°C to 115°C	80
TY125-40X-100*	1.5	32.0	143	3.6	4.4	6.1	1.2	-20°C	-40°C to 105°C	180
TY125-40X*	1.5	32.0	143	3.6	4.4	6.1	1.2	-20°C	-40°C to 105°C	180
TY200-40X-C	3.0	52.5	203	3.6	4.8	6.5	1.2	-20°C	-40°C to 115°C	180
TY200-40X-M	3.0	52.5	203	3.6	4.8	6.5	1.2	-20°C	-40°C to 115°C	180
TY300-40X-100*	6.4	76.0	290	3.6	4.4	6.1	1.2	-20°C	-30°C to 105°C	180
TY300-40X*	6.4	76.0	290	3.6	4.4	6.1	1.2	-20°C	-30°C to 105°C	180
TY400-40X-100*	6.4	102.0	370	3.6	4.4	6.1	1.2	-20°C	-40°C to 105°C	180
TY400-40X*	6.4	102.0	370	3.6	4.4	6.1	1.2	-20°C	-40°C to 105°C	180
TY175-50X-100*	3.2	44.0	188	4.7	5.6	7.9	1.2	-20°C	-40°C to 105°C	222
TY175-50X*	3.2	44.0	188	4.7	5.6	7.9	1.2	-20°C	-40°C to 105°C	222
TY225-50X-100*	3.2	57.0	228	4.7	5.6	7.9	1.2	-20°C	-40°C to 105°C	222
TY225-50X*	3.2	57.0	228	4.7	5.6	7.9	1.2	-20°C	-40°C to 105°C	222
TY300-50X-100*	3.2	76.0	304	4.7	5.6	7.9	1.2	-20°C	-40°C to 105°C	222
TY300-50X*	3.2	76.0	304	4.7	5.6	7.9	1.2	-20°C	-40°C to 105°C	222
TY400-50X-100*	3.2	102.0	366	4.7	5.6	7.9	1.2	-20°C	-40°C to 105°C	222
TY400-50X*	3.2	102.0	366	4.7	5.6	7.9	1.2	-20°C	-40°C to 105°C	222
TY450-50X-C	3.0	122.5	430	4.8	5.8	8.6	1.3	-20°C	-40°C to 115°C	222
TY450-50X-D	3.0	122.5	430	4.8	5.8	8.6	1.3	-20°C	-40°C to 115°C	222
TY200-120X-C	6.0	56.0	220	7.6	7.5	12.0	1.4	-20°C	-40°C to 115°C	550
TY200-120X-D	6.0	56.0	220	7.6	7.5	12.0	1.4	-20°C	-40°C to 115°C	550
TY400-120X-100*	15.0	102.0	374	7.6	7.9	12.2	1.9	-20°C	-40°C to 105°C	540
TY400-120X*	15.0	102.0	374	7.6	7.9	12.2	1.9	-20°C	-40°C to 105°C	540
TY450-120X-L	6.0	130.5	450	7.6	7.5	12.0	1.5	-20°C	-40°C to 115°C	550
TY600-120X-L	6.0	181.5	610	7.6	7.5	12.0	1.6	-20°C	-40°C to 115°C	550
TY800-120X-L	6.0	226.0	750	7.6	7.5	12.0	1.6	-20°C	-40°C to 115°C	550
TY600-175X-L	9.0	181.5	610	8.8	9.6	14.4	1.6	-20°C	-40°C to 115°C	800
TY900-175X-L	9.0	280.0	920	8.8	9.6	14.4	1.7	-20°C	-40°C to 115°C	800
TY1000-175X-L	9.0	295.0	1020	8.8	9.6	14.4	1.8	-20°C	-40°C to 115°C	800
TY1200-175X-L	9.0	375.5	1220	8.8	9.6	14.4	1.8	-20°C	-40°C to 115°C	800
TY500-245X-L	9.0	156.0	530	12.4	10.0	20.0	1.9	-20°C	-40°C to 115°C	1200
TY720-245X-L	9.0	216.0	730	12.4	10.0	20.0	1.9	-20°C	-40°C to 115°C	1200
TY1050-245X-L	9.0	323.0	1030	12.4	10.0	20.0	1.9	-20°C	-40°C to 115°C	1200

* Conforms to Bureau Veritas, Lloyd's Register and DNV-GL

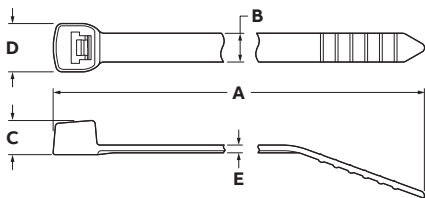


abb.com

We reserve the right to make technical changes or modify the contents of this document without prior notice. With regard to purchase orders, the agreed particulars shall prevail. ABB does not accept any responsibility whatsoever for potential errors or possible lack of information in this document.

We reserve all rights in this document and in the subject matter and illustrations contained therein. Any reproduction – in whole or in part – is forbidden without prior written consent of ABB. © 2023 ABB Installation Products Inc. and/or its related companies. All Rights Reserved.

