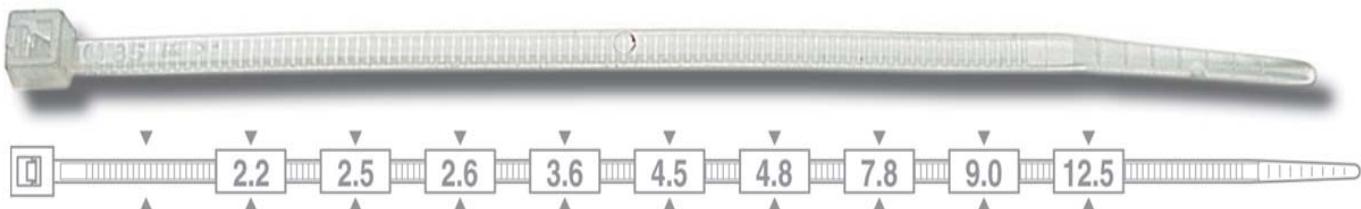


STANDARD CABLE TIES



Characteristics:

Material:	Polyamide 6.6
Humidity absorption:	2,7% (50% relative humidity)
• Working temperature	-40°C ÷ 85°C
• Tightening temperature	-10°C ÷ 60°C
• Max admissible point	+110°C for short time
• Melting temperature	+256°C
Limit Oxygen Index (LOI):	27%
Flammability rating:	UL 94 class V2.

Tested according to EN 50146

- High resistance to bases, oils, greases, oil derivatives.
- Limited resistance to acids.
- Not resistant to phenols and to chloride solvents.
- Halogen-free resins.
- UV resistance (black color).

EC Directives:

The raw material used to produce our cable ties is compliant with EC Directives:

- 2000/53/EC (ELV)
- 2002/95/EC (RoHS)
- 2002/96/EC (WEEE)
- 2003/11/EC

Applications

- Electrical installations.
- Industrial Wiring.
- Automotive.
- Panel building.
- Special applications.

Characteristics

- Our Cable Ties are made exclusively of polyamide 6.6 so that they do not cause issues of material separation during recycling or interferences in electronic equipments.
- In the black cable ties the added carbon black gives an UV resistance according to ISO 4892 (QUV-B 150 hours), compared to 3 years of outdoor exposure under the sunlight and UV action.

Benefits

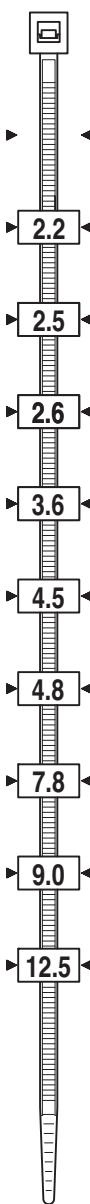
- Smooth rounded edges make them easier to be handled and safer to be installed.
- Bent rounded tip allows easier insertion through the head of the cable ties.
- Low friction coefficient of the material.



Tools for cable ties, see pages 120-121.

Our cable ties are constantly tested in our laboratories following important international standards. Particular extreme cable ties uses, weather conditions or even unsuitable applications might nevertheless vary some of the data we declare. Therefore, in case of specific enquiries or problems, do not hesitate to contact us. We will be pleased to share our experience with You.



Polyamide 6.6 cable ties width 2,2 ÷ 12,5 mm


Code	Code	Dimensions (mm)	Ø Bundle max (mm)	Tensile strength (kg)	Bag (N)	Carton pcs
Natural	Black					
5201/CE	5301/CE	2,2x75	15	6,12	60	100
5201E	5301E	2,2x75	15	6,12	60	1.000
5203/CE	5303/CE	2,5x98	21	8,16	80	100
5203E	5303E	2,5x98	21	8,16	80	1.000
5203/B2	5303/B2	2,5x98	21	8,16	80	20.000
5205/CE	5305/CE	2,5x135	32	8,16	80	100
5205E	5305E	2,5x135	32	8,16	80	1.000
5206/CE	5306/CE	2,6x160	40	8,16	80	100
5206E	5306E	2,6x160	40	8,16	80	1.000
5207/CE	5307/CE	2,6x200	52	8,16	80	100
5207E	5307E	2,6x200	52	8,16	80	1.000
5209/CE	5309/CE	3,6x140	35	13,26	130	100
5209E	5309E	3,6x140	35	13,26	130	1.000
5214/CE	5314/CE	3,6x200	50	13,26	130	100
5214E	5314E	3,6x200	50	13,26	130	1.000
5210/CE	5310/CE	3,6x290	80	13,26	130	100
5210E	5310E	3,6x290	80	13,26	130	500
5208E	5308E	3,6x370	103	13,26	130	100
5212/CE	5312/CE	4,5x120	24	22,44	220	100
5212E	5312E	4,5x120	24	22,44	220	1.000
5211/CE	5311/CE	4,5x160	40	22,44	220	100
5211E	5311E	4,5x160	40	22,44	220	1.000
5213/CE	5313/CE	4,8x178	45	22,44	220	100
5213E	5313E	4,8x178	45	22,44	220	1.000
5215/CE	5315/CE	4,8x200	50	22,44	220	100
5215E	5315E	4,8x200	50	22,44	220	1.000
5216/CE	5316/CE	4,8x250	68	22,44	220	100
5217E	5317E	4,8x290	78	22,44	220	100
5219E	5319E	4,8x360	100	22,44	220	100
5218E	5318E	4,8x390	106	22,44	220	100
5220E	5320E	4,8x430	115	22,44	220	100
5221E	5321E	7,8x120	25	55,08	540	100
5223E	5323E	7,8x180	45	55,08	540	100
5225E	5325E	7,8x240	63	55,08	540	100
5226E	5326E	7,8x300	80	55,08	540	100
5227E	5327E	7,5x365	100	55,08	540	100
5229E	5329E	7,5x450	130	55,08	540	100
5231E	5331E	7,5x540	158	55,08	540	100
5233E	5333E	7,8x750	220	55,08	540	100
5234E	5334E	9,0x780	233	71,4	700	100
5235E	5335E	12,5x225	57	110	1.080	50
5237E	5337E	12,5x500	143	110	1.080	50
5239E	5339E	12,5x720	213	110	1.080	50
5241E	5341E	12,5x850	255	110	1.080	50
5243E	5343E	12,5x1000	302	110	1.080	50
						1.000

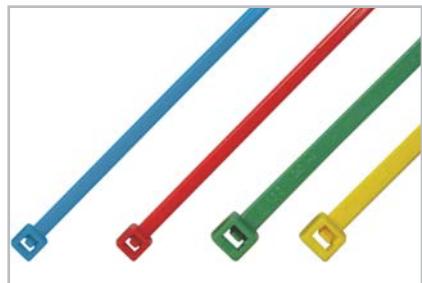
*The nominal dimensions can slightly change according to the utilized mould.

COLOURED CABLE TIES - polyamide 6.6 width 2,5 ÷ 4,8 mm

5203/C *E	2,5x98	21	8,16	80	100	15.000
5209/C *E	3,6x140	32	13,26	130	100	7.000
5214/C *E	3,6x200	50	13,26	130	100	7.000
5215/C *E	4,8x200	50	22,44	220	100	4.000
5217 *E	4,8x290	78	22,44	220	100	3.500

* ♦ R=Red, ♦ G=Yellow, ♦ V=Green, ♦ B=Blue

Minimum order quantity: 1 carton. Other colours and dimensions available on request.



Chemical Agent	Conc. %	Resist.	Chemical Agent	Conc. %	Resist.
Acetaldehyde - aqueous solution	40	D	Lead stearate	100	G
Acetamide - aqueous solution	50	G	Magnesium hydroxide	10	G
Acetic acid - aqueous solution	10	P	Magnesium salts - aqueous solution	10	G
Acetic acid - concentrated		P	Mercury		G
Acetic anhydride - concentrated		S	Methylethylketon		G
Acetone	100	G	Ferric Chloride - aqueous solution	10	G
Acrylonitrile	100	G	Formic acid - aqueous solution	85	S
Aluminium chloride - aqueous solution	10	G	Formic acid - aqueous solution	10	P
Aluminium sulphate - aqueous solution	10	G	Glycol butylene	100	D
Ammonia	10	G	Hydrochloric acid - aqueous solution	36	S
Ammonia - gaseous		L	Hydrochloric acid - aqueous solution	10	P
Ammonium chloride - aqueous solution	10	G	Hydrochloric acid - aqueous solution	2	L
Amyl acetate	100	G	Hydrogen peroxide - aqueous solution	30	P
Amyl alcohol	100	G	Hydrogen peroxide - aqueous solution	3	P
Aniline	100	D	Hydrogen peroxide - aqueous solution	1	P
Barium chloride - aqueous solution	10	G	Hydrogen peroxide - aqueous solution	0,5	L
Benzaldehyde	100	L	Isopropyl alcohol		D
Benzoic acid - aqueous solution	saturated	D	Lactic Acid - aqueous solution	90	P
Benzol	100	G	Lactic Acid - aqueous solution	10	D
Benzyl alcohol	100	L	Lead acetate - aqueous solution	10	D
Bitumen		D	Magnesium chloride - aqueous solution	10	G
Boric acid - aqueous solution	10	D	Mercuric chloride - aqueous solution	6	P
Butane		G	Methyl acetate	100	G
Butyl acetate	100	G	Methyl alcohol	100	D
Butyl alcohol	100	D	Methyl chloride	100	L
Butyric acid	100	D	Nitric acid		P
Calcium chloride - aqueous solution	20	S	Oleic acid	100	G
Calcium chloride - aqueous solution	10	G	Oxalic acid - aqueous solution	10	D
Camphor	100	G	Petrol		G
Chlorine - gaseous	100	P	Phosphoric acid - aqueous solution	10	P
Chlorine water		D	Phthalic acid - aqueous solution saturated		D
Chlorobenzene		G	Potassium bichromate - aqueous solution	5	D
Chlorobromomethane		D	Potassium bromide - aqueous solution	10	D
Chloroform	100	P	Potassium carbonate	100	G
Chromic acid - aqueous solution	10	P	Propyl alcohol		D
Chromic acid - aqueous solution	1	D	Salicylic acid	100	G
Citric acid - aqueous solution	10	L	Sodium bromide - aqueous solution	10	D
Cyclohexane	100	G	Sodium carbonate - aqueous solution	10	G
Cyclohexanol	100	G	Sodium chloride - aqueous solution	10	G
Decaline		G	Sodium disulphate - aqueous solution	10	G
Diacetone alcohol		G	Sulphuric acid - concentrated	98	S
Ethyl acetate	100	G	Sulphuric acid - aqueous solution	10	P
Ethyl alcohol	96	D	Sulphuric acid - aqueous solution	2	L
Ethyl chloride	100	D	Tartaric acid		D
Butyl phthalate		G	Tartaric acid - aqueous solution	10	G
Carbon sulphide	100	G	Thionyl chloride		P
Carbon tetrachloride		G	Vinyl chloride	100	G
Caustic potash - aqueous solution	5	G	Water (sea, river, potable, distilled)		G
Caustic potash - aqueous solution	50	D	Zinc chloride	10	D
Caustic potash - aqueous solution	10	G	Methyl-isobutylketon		G
Caustic soda - aqueous solution	5	G	Mineral oil		G
Caustic soda - aqueous solution	50	D	Naphtha solvent		G
Caustic soda - aqueous solution	10	G	Nitrobenzol	100	D
Copper salts - aqueous solution	10	G	Nitromethane	100	D
Copper sulphate - aqueous solution	10	G	Octyl phthalate		G
Dichlorofluoroethylene		G	Ozone		P
Diethanolamine		G	Perchloroethylene		P
Dimethylformamide	100	G	Phenol - aqueous solution		S
Ethyl ether	100	G	Potassium nitrate - aqueous solution	10	G
Ethyl glycol		G	Sodium hypochlorite - aqueous solution		G
Formaldehyde - aqueous solution	30	G	Sodium nitrate - aqueous solution	5	P
Formamide		D	Sodium nitrate - aqueous solution	10	G
Heptane		G	Sodium phosphate - aqueous solution	10	G
Hexane		D	Sodium sulphate - aqueous solution	10	G
Hydrogen sulphide - aqueous solution saturated		P	Trichloroethylene		D
Isooctane		G	Zinc oxide		G

G= Good resistance without noticeable variations in weight and/or volume
D= Discrete resistance with significant variations in weight and/or volume resulting from prolonged contact.

L= Limited resistance: It is possible to use the material in case of short contact.
P= Poor resistance; the material is strongly attacked.
S= Soluble