



CABLE TIES

PROTECTION – CONTROL – IDENTIFICATION – TRACKING

How to choose the right cable ties

In order to help you choose the right cable tie for your application, LeghornGroup suggests a few things to keep in mind when making your decision:

- a. **Material:** taking into consideration its application, good resistance to weather and ultraviolet rays in lower-temperature environments.
- b. **Tensile strength.**
- c. **Bundle diameter (min. and max.)**
- d. **The flammability rating.**
- e. **Shape, in accordance to its application.**

Chemical agents such as dusts, liquids and gases can damage cable tie's material. In fact, if cable ties come into contact with several compounds, its physical and mechanical properties may be altered. In this case, the performance of the product may not reach the standard declared values.

Special cable ties - good resistance to weather and ultraviolet rays in lower-temperature environments.

All polymers including the polyamides used for the production of cable ties are sensitive to UV radiation. The most common additive used for protecting polyamides from UV radiation is carbon powder commonly known as "carbon black".



PROTECTION – CONTROL - IDENTIFICATION – TRACKING

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Natural cable ties have low resistance to UV radiation and therefore are not suggested for outdoor applications.

Black cable ties are additivated with carbon black. They have improved weather and UV radiation resistance and are more suitable for outdoor applications, comparing to the natural one.

Tests performed in laboratories give for black cable ties a resistance till 150 hours QUV-B radiation following ISO 4892 norm. This can be compared to ca. 3 years outdoor resistance on average exposure to South-European areas.

Temperature resistance

All polymers including also polyamides used for the production of cable ties are sensitive to low temperatures; application of polyamide 6.6 cable ties is possible till around -10°C . Standard polyamide becomes very brittle at temperatures below -40°C (min suggested service temperature for continuous use).

In case of lower temperatures, cable ties become really brittle.



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Tear resistance

LeghornGroup' cable ties are tested following the main international standards CEI EN 62275.

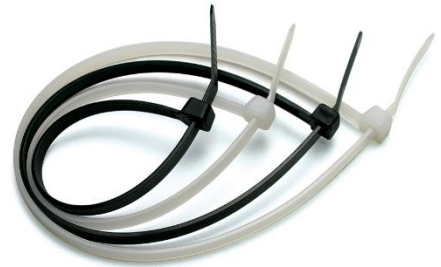
The standard testing conditions are 23°C and 50% of relative humidity.

It is important to underline that the values arising from those laboratory tests are indicatives and they refer to the above-mentioned conditions.



Certificates and approvals

EN (CENELEC 50146)	31-10-2005
EN 62275:2015	20-01-2017
RoHsDate	19-05-2015
Halogen - Free	19-05-2015
DIN CERTCO	05-09-2005
C E	30-07-2005
ISO 9001-2015	14-09-2018

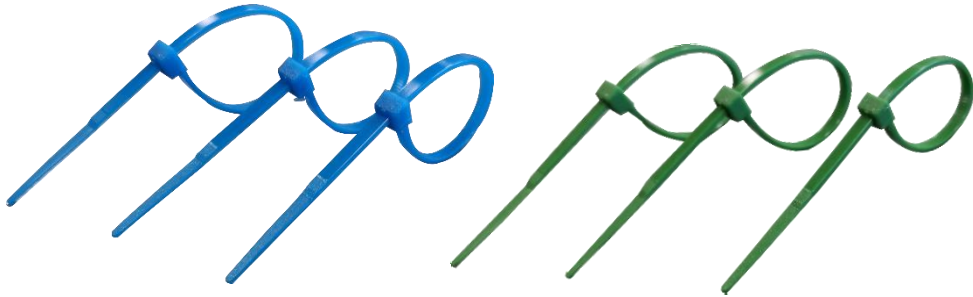


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Cable ties Technical specifications



Material	Polyamide PA-6.6
Colour	White or black
Working temperature	-25° & -40° C up to +85° C
Tightening temperature	-10° C up to +60° C
Melting point	+260° C
Flammability rating	V2 acc- a UL 94
Resistance to chemicals products	High resistance to bases, oils, greases, oil derivatives. Limited resistance to acids. Not resistant to phenols and to chloride solvents

Natural cable ties (white colour) of LeghornGroup have low resistance to UV radiation and therefore are not suggested for outdoor applications.

Black cable ties of LeghornGroup are additivated with carbon black. They have improved weather and UV radiation resistance and are more suitable for outdoor applications ISO 4892 (1.000 h)

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STANDARD cable ties

Polyamide Pa 6.6



By LeghornGroup



By LeghornGroup

2,5 mm

Code natural	Code black	Dimension mm	Maximum Bundle/mm		Resistance Kg	N	Working temperature	Qty Env.	Qty carton
03-001	03-201	2,5x80	14	3,7	8	80	-25°	100	12.000
03-002	03-202	2,5x100	25	3,7	8	80	-25°	100	12.000
03-003	03-203	2,5x120	30	3,7	8	80	-25°	100	12.000
03-004	03-204	2,5x160	43	3,7	8	80	-25°	100	10.000
03-005	03-205	2,5x200	50	3,7	8	80	-25°	100	8.000

3,6 mm

Code natural	Code black	Dimension mm	Maximum Bundl/emm		Resistance Kg	N	Working temperature	Qty Env.	Qty carton
03-010	03-210	3,6x150	32	3,7	18	180	-25°	100	6.000
03-011	03-211	3,6x180	49	3,7	18	180	-25°	100	6.000
03-012	03-212	3,6x200	55	3,7	18	180	-25°	100	4.000
03-013	03-213	3,6x250	74	3,7	18	180	-25°	100	4.000
03-014	03-214	3,6x300	85	3,7	18	180	-25°	100	2.500
03-015	03-215	3,6x370	98	3,7	18	180	-25°	100	2.500

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STANDARD cable ties

Polyamide Pa 6.6



4,8 mm

Code natural	Code black	Dimension mm	Max. Bundle/mm		Resistance Kg N		Working temperature	Qty Env.	Qty carton
03-020	03-220	4,8x120	30	3,7	22	220	-40°	100	4.000
03-021	03-221	4,8x160	42	3,7	22	220	-40°	100	3.500
03-022	03-222	4,8x200	52	3,7	22	220	-40°	100	2.500
03-023	03-223	4,8x250	74	3,7	22	220	-40°	100	2.500
03-024	03-224	4,8x300	85	3,7	22	220	-40°	100	2.000
03-025	03-225	4,8x370	103	25	22	220	-40°	100	1.500

7,6 mm

Code natural	Code black	Dimension mm	Max. Bundle/mm		Resistance Kg N		Working temperature	Qty Env.	Qty Carton
03-031	03-231	7,6x200	55	3,7	55	550	-25°	100	2.000
03-032	03-232	7,6x300	85	3,7	55	550	-25°	100	1.500
03-033	03-233	7,6x370	97	3,7	55	550	-25°	100	1.200

9 mm

Code natural	Code black	Dimension mm	Max. Bundle/mm		Resistance Kg N		Working temperature	Qty Env.	Qty carton
03-040	03-240	9x370	97	25	80	800	-25°	50	900

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2,5 mm (UV)

Code black	Dimention mm	Max. Bundle/mm		Resistance Kg N		Working temperature	Qty Env.	Qty carton
03-802	2,5x100	25	3,7	8	80	-25°	100	12.000
03-803	2,5x120	30	3,7	8	80	-25°	100	12.000
03-804	2,5x160	43	3,7	8	80	-25°	100	10.000
03-805	2,5x200	50	3,7	8	80	-25°	100	8.000

3,6 mm (UV)

Code black	Dimention mm	Max. Bundle/mm		Resistance Kg N		Working temperature	Qty Env.	Qty carton
03-810	3,6x150	32	3,7	18	180	-25°	100	6.000
03-812	3,6x200	55	3,7	18	180	-25°	100	4.000
03-813	3,6x250	74	3,7	18	180	-25°	100	4.000
03-814	3,6x300	85	3,7	18	180	-25°	100	2.500
03-815	3,6x370	98	3,7	18	180	-25°	100	2.500

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UV cable ties Polyamide Pa 6.6



By LeghornGroup

4,8 mm (UV)

Code black	Dimention mm	Max. Bundle/mm		Resistance Kg N		Working temperature	Qty Env.	Qty carton
03-822	4,8x200	52	3,7	22	220	-40°	100	2.500
03-823	4,8x250	74	3,7	22	220	-40°	100	2.500
03-824	4,8x300	85	3,7	22	220	-40°	100	2.000
03-825	4,8x370	103	3,7	22	220	-40°	100	1.500

7,6 mm (UV)

Code black	Dimention mm	Max. Bundle/mm		Resistance Kg N		Working temperature	Qty Env.	Qty carton
03-831	7,6x200	55	3,7	55	550	-25°	100	2.000
03-832	7,6x300	85	3,7	55	550	-25°	100	1.500
03-833	7,6x370	97	25	55	550	-25°	100	1.200

9 mm (UV)

Code black	Dimention mm	Max. Bundle/mm		Resistance Kg N		Working temperature	Qty Env.	Qty carton
03-840	9x370	97	25	80	800	-25°	50	900

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Cable ties

Polyamide Pa 6.6 DOUBLE CLOSING



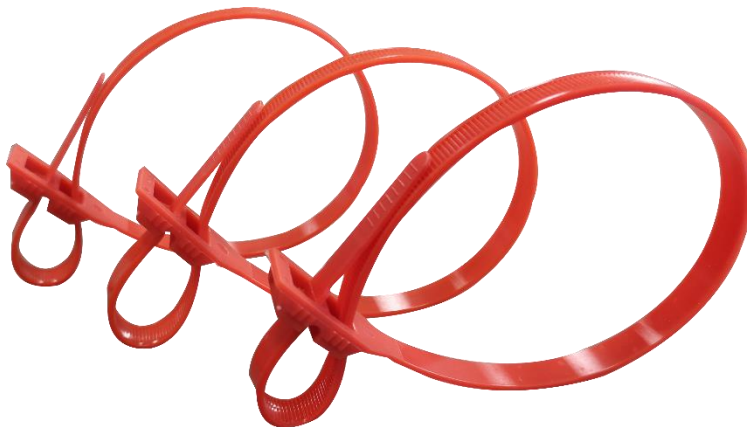
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9 mm (STANDARD – DOUBLE CLOSING)

Code black	Dimention mm	Max. Bundle/mm		Resistance Kg N		Working temperature	Qty Env.	Qty carton
03-245	9x370	97	25	80	800	-25°	50	900

9 mm (UV – DOUBLE CLOSING)

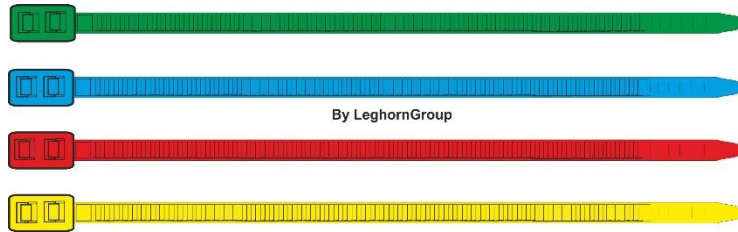
Code black	Dimention mm	Max. Bundle/mm		Resistance Kg N		Working temperature	Qty Env.	Qty carton
03-845	9x370	97	25	80	800	-25°	50	900



PROTECTION – CONTROL - IDENTIFICATION – TRACKING

Cable ties

Polyamide Pa 6.6 DOUBLE CLOSING COLOURATED



9 mm (DOUBLE CLOSING)

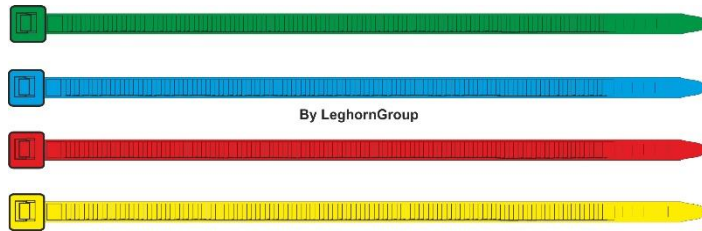
CODE GREEN	CODE BLUE	CODE RED	CODE YELLOW	Dimension mm	Max. Bundle/mm		Resistance Kg N		Qty Env.	Qty carton
03-545	03-645	03-345	03-445	9x380	103	25	80	800	50	600

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Cable ties STANDARD COLOURATED Polyamide Pa 6.6



2,5 mm

CODE GREEN	COCDE BLUE	CODE RED	CODE YELLOW	Dimention mm	Max. Bundle/ mm	RESISTENZA Kg N		Qty Env.	Qty carton
03-502	03-602	03-302	03-402	2,5x100	25	8	80	100	12.000
03-503	03-603	03-303	03-403	2,5x120	30	8	80	100	12.000
03-504	03-604	03-304	03-404	2,5x160	43	8	80	100	10.000
03-505	03-605	03-305	03-405	2,5x200	50	8	80	100	8.000

3,6 mm

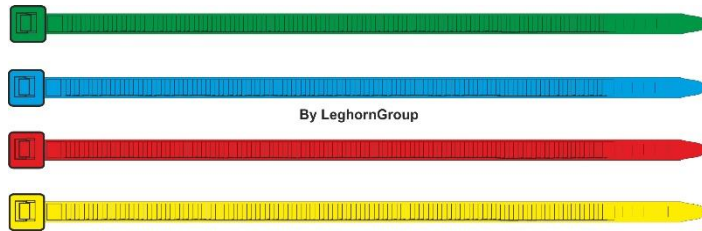
CODE GREEN	COCDE BLUE	CODE RED	CODE YELLOW	Dimention mm	Max. Bundle/ mm	RESISTENZA Kg N		Qty Env.	Qty carton
03-510	03-610	03-310	03-410	3,6x150	32	18	180	100	6.000
03-512	03-612	03-312	03-412	3,6x200	55	18	180	100	4.000
03-513	03-613	03-313	03-413	3,6x250	74	18	180	100	4.000

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Cable ties STANDARD COLOURATED Polyamide Pa 6.6



4,8 mm

CODE GREEN	COCDE BLUE	CODE RED	CODE YELLOW	Dimention mm	Max. Bundle /mm	Resistance		Qty Env.	Qty carton
						Kg	N		
03-522	03-622	03-322	03-422	4,8x200	52	22	220	100	2.500
03-523	03-623	03-323	03-423	4,8x250	74	22	220	100	2.500
03-524	03-624	03-324	03-424	4,8x300	85	22	220	100	2.000
03-525	03-625	03-325	03-425	4,8x370	103	22	220	100	1.500

7,6 mm

CODE GREEN	COCDE BLUE	CODE RED	CODE YELLOW	Dimention mm	Max. Bundle/ mm	Resistance		Qty Env.	Qty carton
						Kg	N		
03-531	03-631	03-331	03-431	7,6x200	55	55	550	100	2.000
03-532	03-632	03-332	03-432	7,6x300	85	55	550	100	1.500
03-533	03-633	03-333	03-433	7,6x370	97	55	550	100	1.200

9 mm

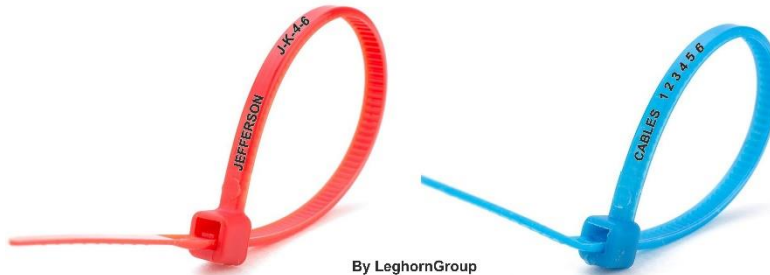
CODE GREEN	COCDE BLUE	CODE RED	CODE YELLOW	Dimention mm	Max. Bundle/ mm	Resistance		Qty Env.	Qty carton
						Kg	N		
03-540	03-640	03-340	03-440	9x370	97	80	800	50	900

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Cable ties STANDARD COLOURATED
Polyamide Pa 6.6
CUSTOMISATION AND NUMBERING UP
TO 15 DIGITS



7,6 mm

CODE GREEN	COCDE BLUE	CODE RED	CODE YELLOW	Dimention mm	Max. Bundle/mm	Resistance Kg N		Qty Env.	Qty carton
03-590	03-690	03-390	03-490	7,6x200	55	55	550	100	2.000
03-591	03-691	03-391	03-491	7,6x300	85	55	550	100	1.500
03-592	03-692	03-392	03-492	7,6x370	97	55	550	100	1.200

9 mm

CODE GREEN	COCDE BLUE	CODE RED	CODE YELLOW	Dimention mm	Max. Bundle/mm	Resistance Kg N		Qty Env.	Qty carton
03-593	03-693	03-393	03-493	9x370	97	80	800	50	900

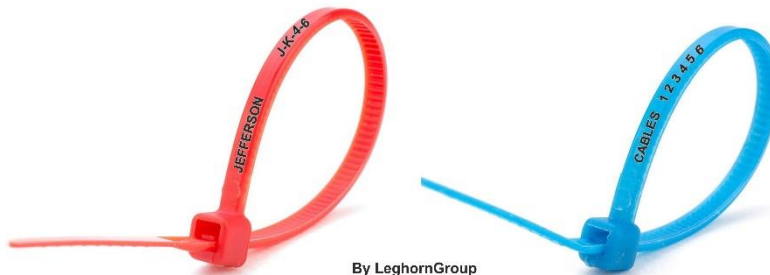
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**Cable ties STANDARD COLOURATED
Polyamide Pa 6.6
CUSTOMISATION AND NUMBERING UP
TO 15 DIGITS**



By LeghornGroup

9 mm

CODE GREEN	CODE BLUE	CODE RED	CODE YELLOW	Dimension mm	Max. Bundle/mm	Resistance Kg	N	Qty Env.	Qty carton
03-593	03-693	03-393	03-493	9x380	103	80	800	50	600

Creation of prototype and plastic moulding

Within 48 hours, we can prepare a three-dimensional draft that once approved turns into a 3D prototype that will be under your evaluation.

If you approve it, within 30-40 days we take your order under production and we will supply the first 1000 pcs for final tests.

Our team of experts in plastic moulding will surely meet your requirements.

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