



Applications

Cable ties have a great credit to technical professionals, and not only, thanks for the convenience offered by the speed of use, and the durability they offer.

So, Arteplast Cable Ties used:

- Automotive.
- Photovoltaic installations.
- Electrical installations.
- Sea fish crops.
- Industrial wiring.
- Panel building.

Technical Specification

Installation material:

- Material : Polyamide PA-6.6
- Colour: Black, Natural & Colorful.
- Operating Temperature : -25 & -40 °C to + 85 °C
- Installation temperature: -10 °C to + 60 °C
- Melting point: + 260 °C
- Flammability class: V2 acc. To UL 94
- Resistance to chemicals: Excellent resistance to alkalis, oil products, chlorate solvents, limited resistance to all acid no resistance to phenols.

Approvals Certifications:

- Halogen - Free
 - DIN CERTCO
 - C E
 - ISO EN 62275:2015
 - RoHs
 - 9001-2015
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- The Natural Cable Ties (Code : 03-0xx) made of polyamide 6.6 have low resistance to UV radiation and therefore are not suggested for outdoor application.
- A Back Cable Ties (Code: 03-2xx) made of polyamide 6.6 standard is only colored black with a low protection of carbon black. This is not sufficient to protect the material from damage caused by UV-radiation in the long term. UV Resistant Yes – Loop tensile strength. Type 1 (50%) ISO 4892 (1.000h) .
- Products (Code: 03-8xx) made from UV- stabilized polyamide are produced in accordance with a higher carbon black percentage of approx. 2%. So they resist UV-radiation in the European area for a considerably longer period than standard PA-66.

Technical Information:

1. Properties of polyamide PA-66.

Polyamides are among the most important thermoplastic synthetic materials. Thermoplastics can be reshaped by heating as often as required without undergoing chemical decomposition or other negative changes. This makes polyamide ideal for processing via injection moulding into high quality products. About 100% of cable ties from ArtePlast are made from this material.

2. Water content in polyamide.

Polyamide is hygroscopic material, this means that it absorbs and releases water. The mechanical properties are significantly affected by the water content-especially flexibility and minimum tensile strength.

In a standard atmosphere of 23 °C and 50% relative humidity, the degree of water saturation of polyamide is around 2.5%. For optimal processing of cable ties it is therefore important that the polyamide has a water content of approximately 2.5% in a state of equilibrium.

The quality and functionality of the products are thus affected by the water content, therefore the correct storage of our products is crucial.

3. Properties of UV-stabilised polyamide.

The question constantly arises as to whether a black cable ties is suitable for use outside. This is dependent on the application of the tie, but in general the following statements can be made:

A black cable ties made of polyamide 6.6 standard is only colored black with a low protection of carbon black. This is not sufficient to protect the material from damage caused by UV-radiation in the long term. Products made from UV- stabilized polyamide are produced in accordance with a higher carbon black percentage of approx. 2%. So they resist UV-radiation in the European area for a considerably longer period than standard PA-66.

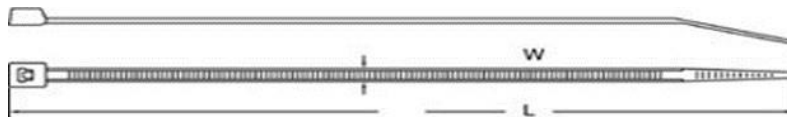
4. Optimum storage conditions for cable ties made of (PA-66).

ArtePlast cable ties, fastenings and fixings are manufactured from high-quality polyamide (pa-66). This industrial synthetic material is mainly processed using injection moulding, but can also be extruded.

Polyamide is a hygroscopic material. This means that the material absorbs and lose moisture. For optimum handling of cable ties it is important that the material is in a condition of equilibrium with a water content of approximately 2.5%.

The packaging used by ArtePlast ensures that the water content in the material remains constant. Therefore, it is important to store the products in their original packaging to preserve the quality of the cable ties:

- Once opened you should use the cable ties as quickly as possible.
- Always store cable ties in the sealed plastic bag made of polyethylene!
- Do not expose the product to direct sunlight!
- Do not store the cable ties in sunlight; for example, on the windowsill.
- Store the product away from direct sources of heat.
- Avoid contact with heat: for example, do not place on the radiators.
- The ideal storage conditions are those of the central European standard climate: 23 °C & 50% humidity.



Standard Cable Ties

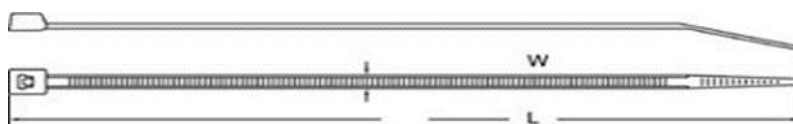
Polyamide PA-6.6

Code	Code	Dimensions (mm)		Max Bundl/Min	Tensile Strength (kg (N)		Operating Temperature	QTY Pack pcs.	QTY Carton pcs.	
Natural	Black	W	L	Dia / m.m.						
03-001	03-201	2,5	80	14	3,7	8	80	-25 °C	100	12.000
03-002	03-202	2,5	100	25	3,7	8	80	-25 °C	100	12.000
03-003	03-203	2,5	120	30	3,7	8	80	-25 °C	100	12.000
03-004	03-204	2,5	160	43	3,7	8	80	-25 °C	100	8.000
03-005	03-205	2,5	200	50	3,7	8	80	-25 °C	100	8.000

03-010	03-210	3,6	150	32	3,7	18	180	-25 °C	100	6.000
03-012	03-212	3,6	200	55	3,7	18	180	-25 °C	100	4.000
03-013	03-213	3,6	250	74	3,7	18	180	-25 °C	100	4.000

03-020	03-220	4,8	120	30	3,7	22	220	-40 °C	100	4.000
03-021	03-221	4,8	160	42	3,7	22	220	-40 °C	100	3.500
03-022	03-222	4,8	200	52	3,7	22	220	-40 °C	100	2.500
03-023	03-223	4,8	250	74	3,7	22	220	-40 °C	100	2.500
03-024	03-224	4,8	300	85	3,7	22	220	-40 °C	100	2.000
03-025	03-225	4,8	370	103	25	22	220	-40 °C	100	1.500

03-031	03-231	7,6	200	55	3,7	55	550	-25 °C	100	2.000
03-032	03-232	7,6	300	85	3,7	55	550	-25 °C	100	1.500
03-033	03-233	7,6	370	97	3,7	55	550	-25 °C	100	1.200
03-034	03-234	7,6	450	103	3,7	55	550	-25 °C	100	2,500



U V Cable Ties

Polyamide PA-6.6

Code	Dimensions (mm)		Max Bundl/Min		Tensile Strength (kg) (N)		Operating Temperature	QTY Pack pcs.	QTY Carton pcs.
	W	L	Dia / m.m.						
03-802	2,5	100	25	3,7	8	80	-25 °C	100	12.000
03-803	2,5	120	30	3,7	8	80	-25 °C	100	10.000
03-804	2,5	160	43	3,7	8	80	-25 °C	100	8.000
03-805	2,5	200	50	3,7	8	80	-25 °C	100	8.000

03-810	3,6	150	32	3,7	18	180	-25 °C	100	6.000
03-812	3,6	200	55	3,7	18	180	-25 °C	100	4.000
03-813	3,6	250	74	3,7	18	180	-25 °C	100	4.000

03-822	4,8	200	52	3,7	22	220	-40 °C	100	2.500
03-823	4,8	250	74	3,7	22	220	-40 °C	100	2.500
03-824	4,8	300	85	3,7	22	220	-40 °C	100	2.000
03-825	4,8	370	103	3,7	22	220	-40 °C	100	1.500

03-831	7,6	200	55	3,7	55	550	-25 °C	100	2.000
03-832	7,6	300	85	3,7	55	550	-25 °C	100	1.500
03-833	7,6	370	97	25	55	550	-25 °C	100	1.200

Double Head Cable Ties

Polyamide PA-6.6

Code	Dimensions (mm)		Max Bundl/Min Dia / m.m.	Tensile Strength		Operating Temperature	QTY Pack pcs.	QTY Carton pcs.
Black	W	L		(kg)	(N)			
03-245	9,0 (twin Head)	380	103 25	80	800	-25 °C	50	600

U V Double Head Cable Ties

Polyamide PA-66

Code	Dimensions (mm)		Max Bundl/Min Dia / m.m.	Tensile Strength		Operating Temperature	QTY Pack pcs.	QTY Carton pcs.
Black	W	L		(kg)	(N)			
03-845	9,0(twin Head)	380	103 25	80	800	-25 °C	50	600

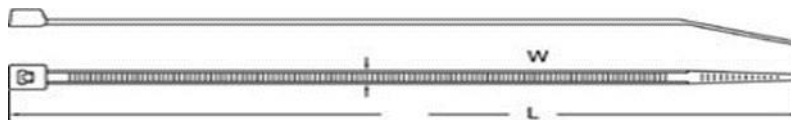
Colours Double Head Cable Ties

Polyamide PA-6.6

Code Green	Code Blue	Code Red	Code Yellow	Dimensions (mm)		Max Bundl/Min Dia / m.m.	Tensile Strength		QTY Pack pcs.	QTY Carton pcs.
				W	L		(kg)	(N)		
03-545	03-645	03-345	03-445	9.0	380	103 25	80	800	50	600



ArtePlast cable ties



Colours Cable Ties

Polyamide PA-6.6

Code Green	Code Blue	Code Red	Code Yellow	Dimensions W (mm) L		MaxBundl/Min Dia / m.m.	TensileStrength (kg) (N)		QTY Packpcs.	QTY Cartonpcs.
03-502	03-602	03-302	03-402	2,5	100	25	8	80	100	12.000
03-503	03-603	03-303	03-403	2,5	120	30	8	80	100	12.000
03-504	03-604	03-304	03-404	2,5	160	43	8	80	100	8.000
03-505	03-605	03-305	03-405	2,5	200	50	8	80	100	8.000

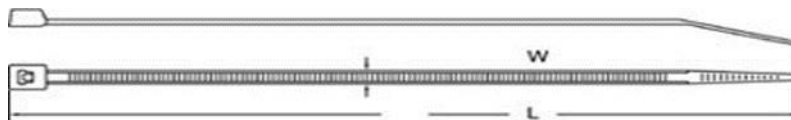
03-510	03-610	03-310	03-410	3,6	150	32	18	180	100	6.000
03-512	03-612	03-312	03-412	3,6	200	55	18	180	100	4.000
03-513	03-613	03-313	03-413	3,6	250	74	18	180	100	4.000

03-522	03-622	03-322	03-422	4,8	200	52	22	220	100	2.500
03-523	03-623	03-323	03-423	4,8	250	74	22	220	100	2.500
03-524	03-624	03-324	03-424	4,8	300	85	22	220	100	2.000
03-525	03-625	03-325	03-425	4,8	370	103	22	220	100	1.500

03-531	03-631	03-331	03-431	7,6	200	55	55	550	100	2.000
03-532	03-632	03-332	03-432	7,6	300	85	55	550	100	1.500
03-533	03-633	03-333	03-433	7,6	370	97	55	550	100	1.200



ArtePlast cable ties

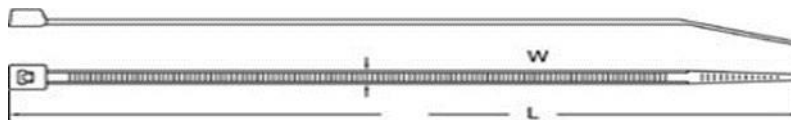


Cable Ties with printing
Serial Numbering up to 15 digits
Polyamide PA-6.6

Code Green	Code Blue	Code Red	Code Yellow	Dimensions W mm L		Max Bundl Dia / m.m.	Tensile Strength (kg) (N)		QTY Packpcs.	QTY Cartonpcs.
03-590	03-690	03-390	03-490	7,6	200	55	55	550	100	2.000
03-591	03-691	03-391	03-491	7,6	300	85	55	550	100	1.500
03-592	03-692	03-392	03-492	7,6	370	97	55	550	100	1.200



ArtePlast cable ties



Double Head Cable Ties with printing
Serial Numbering
Polyamide PA-6.6

Code Green	Code Blue	Code Red	Code Yellow	Dimensions (mm)		Max Bundl Dia / m.m.	Tensile Strength		QTY Packpcs.	QTY Cartonpcs.
W	L						(kg)	(N)		
03-545	03-645	03-345	03-445	9.0	380	103	80	800	50	600



ArtePlast cable ties

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