



## INSTALLATION PRODUCTS FOR THE SHIPBUILDING INDUSTRY



# OUR PRODUCTION

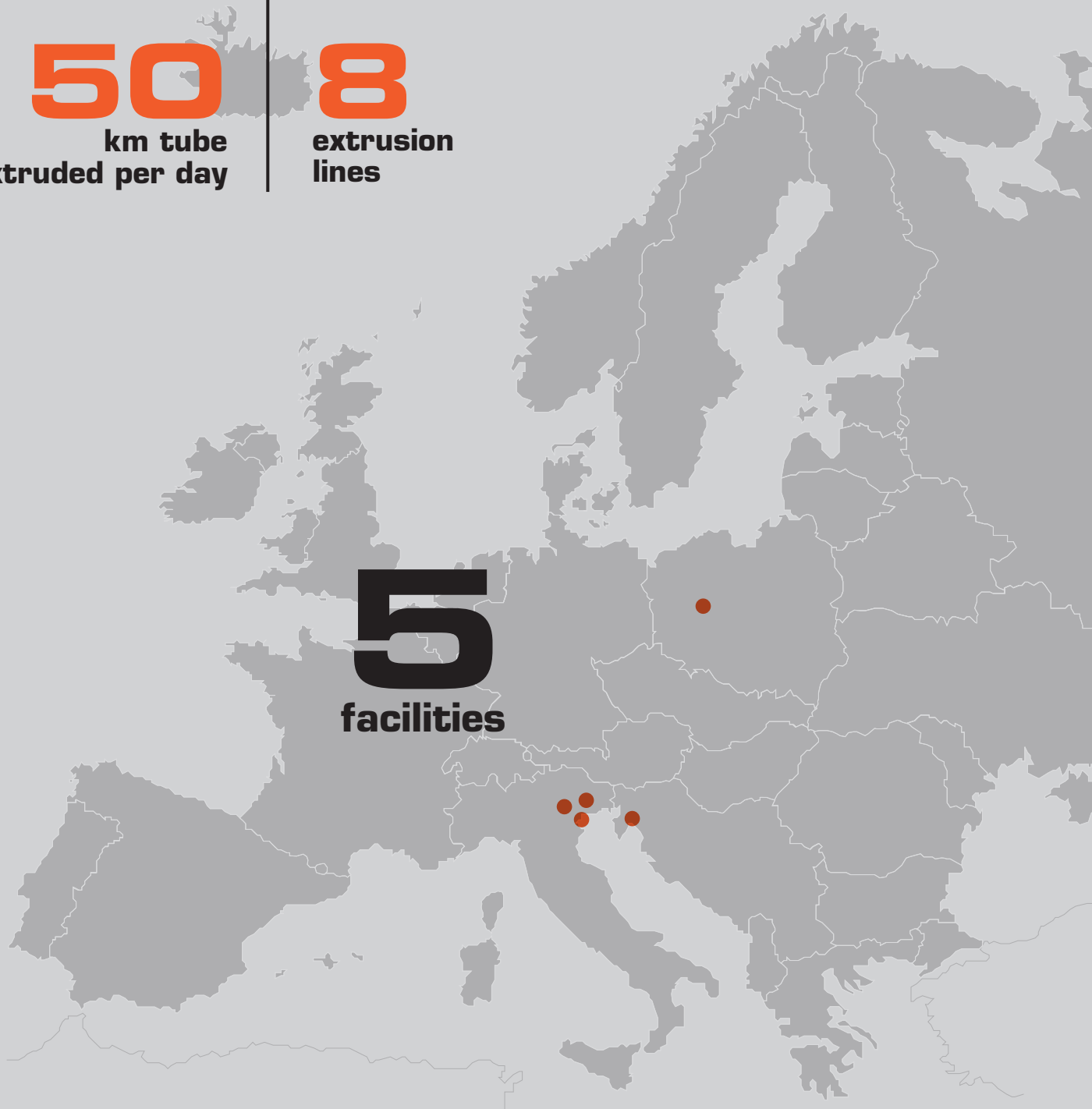
**75**  
injection  
moulding machines

**14** million  
cable ties  
produced per day

**150**  
km tube  
extruded per day

**8**  
extrusion  
lines

**5**  
facilities





## **ADVANCED** FASTENING SOLUTIONS

We **DEVELOP** and **PRODUCE** solutions dedicated to different types of industry, combining our Italian and European **COMPETENCES**.

The only multi-product and multi-solution offer for your profession.

## THE STRENGTH OF A **GLOBAL** **GROUP**

Elematic is part of **ITW**, an American **MULTINATIONAL** group with over 100 years of history: the **IDEAL PARTNER** for every professional looking for innovative, differentiating, and high-quality products.



## SYSTEM CERTIFICATIONS



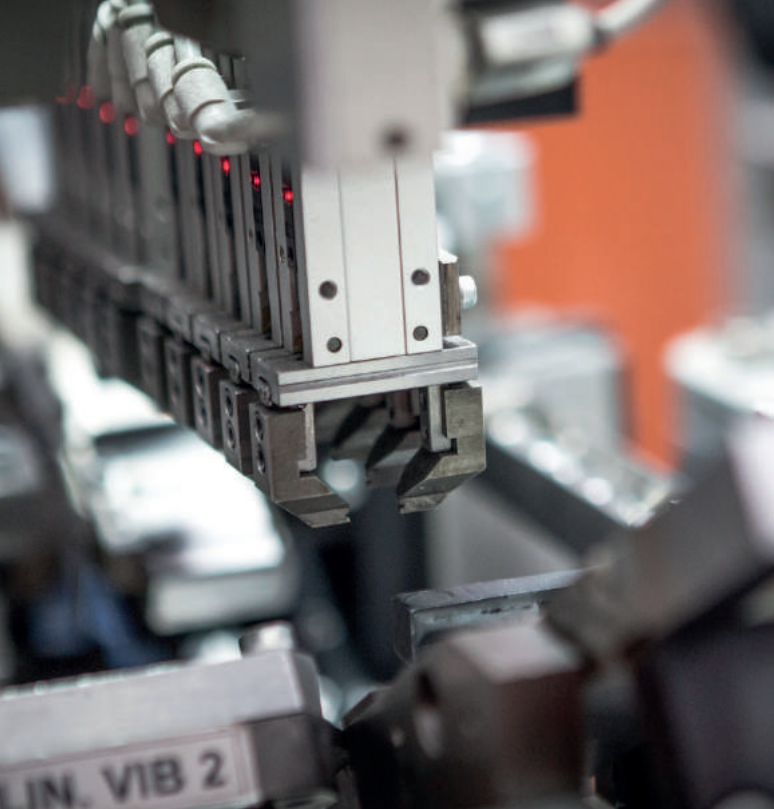
The company is certified **ISO 9001:2015** for the design and manufacturing of cable ties and fixing systems with technopolymers, and trading of cabling and fixing accessories.

The certification guarantees the **quality of the production processes** thanks to the implementation of strict operational procedures and quality controls at all levels.

## ENVIRONMENTAL CERTIFICATIONS



Aware of the importance of our impact on the environment, we undertook an environmental certification procedure to reduce our impact as much as possible. All our Italian sites are certified according to **ISO 14001: 2015** standard for the design and production of cable ties and fixing systems in technopolymers by injection moulding, and trading of cabling and fixing accessories.



## WHY CHOOSING



- Elematic products are tested periodically to comply with the latest **safety standards**;
- Producing our cable ties with **durable materials** makes them resistant to the toughest weather conditions and widely increases the product longevity;
- Because your time is precious, we developed a **simpler installation process**;
- Our product range gives you the possibility to choose **the right solutions** accordingly to the different operational environments;
- Elematic produces in Europe and **guarantees full traceability**;
- As an Elematic partner, you will save time working with a single company to **satisfy all your needs** for an electrical system compliant with flame, smoke and toxicity requirements.

## PRODUCT CERTIFICATIONS AND COMPLIANCE



### **DNV**

DNV certification guarantees that Elematic cable ties comply with the “Det Norske Veritas” and “Ger-manischer Lloyd” standards for cable fixing in naval and offshore constructions, for both internal and external applications.



### **R.I.NA.**

The Italian Naval Register homologation, according to the IEC EN 60092-101 “Electrical Installations in Ship” certifies that Elematic cable ties have been tested for flame propagation in ships.



UL LISTED



UL RECOGNIZED

### **UL**

Elematic cable ties are recognised and listed by UL (Underwriters Laboratories Inc.) according to UL 62275 standard - Cable Management Systems - Cable Ties for Electrical Installation.



### **BUREAU VERITAS**

This homologation, according to the IEC standard 60092-IEC 62275, ensures that Elematic cable ties comply with the “Bureau Veritas” standard for cables fixing in shipbuilding.

**EN 45545-2**

### **EN 45545-2**

Products are tested according to UNI EN 45545-2: Railway applications - Fire protection for railway rolling stock - Part 2: Requirements for the fire behavior of materials and components.



### **CE MARKING**

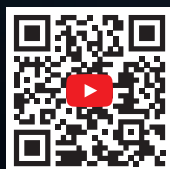
**E** **ELEMATIC**

# 2-LOCK

**THE ONLY DOUBLE STEEL  
TOOTH CABLE TIE**



EN 45545-2



- +** **MAXIMUM GRIP**
- +** **SAFETY AND RELIABILITY**
- +** **RESISTANT TO UV RAYS AND LOW TEMPERATURES**
- +** **INNOVATION AND EXCLUSIVITY**

# 2-LOCK CABLE TIES



Professional cable ties, in polyamide 6.6, having an innovative double locking system in stainless steel: maximum performance and reliability



## CHALLENGES

UV resistance/ great resistance to cold temperatures  $-40^{\circ}$ / high tensile strength/ smooth profile not to damage the cables / easy insertion

## FEATURES AND BENEFITS

- The special AISI 316 stainless steel locking system, directly incorporated into the head during the injection manufacturing process, allows the highest performances and reliability
- The double tooth mechanism allows a double locking, on both side of ties, for an ultimate tightening of the bundles
- Perfect wiring: the smooth profile without racks offers infinite adjustment along the length of the tie and always a correct tensioning for any bundling diameters
- Resistance and reliability at low operating temperature up to  $-40^{\circ}$  C
- 2-LOCK™ cable ties, in black color, are manufactured of special UV-resistant polyamide, for extreme outdoor applications
- 2-LOCK™ cable ties are packed in an innovative resealable bag: this avoids any dispersion after the first opening, maintaining the superior characteristics of the ties.

## APPROVALS AND CERTIFICATIONS



## TECHNICAL DATA

<b>Body material</b>	polyamide 6.6
<b>Cage material</b>	stainless steel INOX AISI 316
<b>Halogen</b>	absent
<b>Humidity absorption (50% relative humidity)</b>	2,7%
<b>Working temperature</b>	$-40^{\circ}$ C ÷ $+85^{\circ}$ C
<b>Installation temperature</b>	$-40^{\circ}$ C ÷ $60^{\circ}$ C
<b>Flammability rating</b>	UL94 class V2

### Resistance external agents:

UV-resistant (2-Lock in black color). Excellent chemical resistance to aromatic solvents, oils, greases, oil-based products. Good chemical resistance to bases. Limited resistance to acids. Does not resist to phenol and chlorinated solvents. Corrosion Resistant (Overmoulded Locking System in A4-AISI 316 stainless Steel)



**2-LOCK™  
NATURAL**



Description	Width (mm)	Length (mm)	Ø bundle max (mm)	Tensile Strength (kg)	Tensile Strength (N)	Pack (pcs.)	Code
2-LOCK 2,5x100	2,5	100	21	15,30	150	100	1203
2-LOCK 2,5x200	2,5	200	50	15,30	150	100	1207
2-LOCK 3,5x140	3,5	140	35	25,5	250	100	1209
2-LOCK 3,5x200	3,5	200	50	25,5	250	100	1214
2-LOCK 3,5x290	3,5	290	80	25,5	250	100	1210
2-LOCK 4,5x200	4,5	200	50	36,72	360	100	1215
2-LOCK 4,5x250	4,5	250	68	36,72	360	100	1216
2-LOCK 4,5x290	4,5	290	80	36,72	360	100	1217
2-LOCK 4,5x360	4,5	360	101	36,72	360	100	1219
2-LOCK 7,5x220	7,5	220	55	79,56	780	100	1225*
2-LOCK 7,5x360	7,5	360	100	79,56	780	100	1227

\*not DNV-GL certified

**2-LOCK™  
BLACK - UV-RESISTANT**



Description	Width (mm)	Length (mm)	Ø bundle max (mm)	Tensile Strength (kg)	Tensile Strength (N)	Pack (pcs.)	Code
2-LOCK 2,5x100	2,5	100	21	15,3	150	100	1303
2-LOCK 2,5x200	2,5	200	50	15,3	150	100	1307
2-LOCK 3,5x140	3,5	140	35	25,5	250	100	1309
2-LOCK 3,5x200	3,5	200	50	25,5	250	100	1314
2-LOCK 3,5x290	3,5	290	80	25,5	250	100	1310
2-LOCK 4,5x200	4,5	200	50	36,72	360	100	1315
2-LOCK 4,5x250	4,5	250	68	36,72	360	100	1316
2-LOCK 4,5x290	4,5	290	80	36,72	360	100	1317
2-LOCK 4,5x360	4,5	360	101	36,72	360	100	1319
2-LOCK 7,5x220	7,5	220	55	79,56	780	100	1325
2-LOCK 7,5x360	7,5	360	100	79,56	780	100	1327

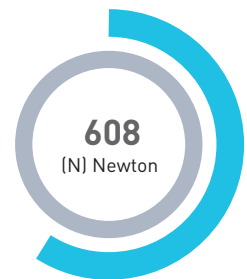
**COMPARISON BETWEEN 2-LOCK WITH METALLIC DOUBLE TOOTH CABLE TIE AND COMPETITOR'S SINGLE TOOTH CABLE TIES**



**TENSILE STRENGTH**  
**+ 53%**

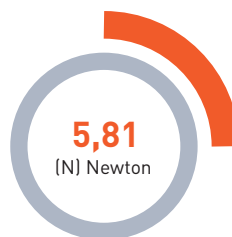


**2-LOCK**  
DOUBLE TOOTH



**COMPETITOR**  
SINGLE TOOTH

**EASY TO APPLY**  
**+ 47%**



**2-LOCK**  
DOUBLE TOOTH



**COMPETITOR**  
SINGLE TOOTH

Outside serrated cable ties with low profile head for a fast and reliable bundling, no tool needed even when space is tight



**CHALLENGES**  
High strength performance in narrow space, no tools required

## FEATURES AND BENEFITS

- Flexible and elongated tail for reduced insertion effort
- Smooth shape, ergonomic ribbed grips for an easy installation also without any tools.
- The external rack and the parallel locking system offer a smooth surface to the fastened cables avoiding any damages to the insulation
- For using in application where high-strength performances are definitely required

## APPROVALS AND CERTIFICATIONS



## TECHNICAL DATA

Material	polyamide 6.6
Halogen	absent
Humidity absorption (50% relative humidity)	2,7%
Working temperature	-40°C ÷ +85°C
Installation temperature	-10°C ÷ 60°C
Flammability rating	UL94 class V2

**Resistance external agents:**  
Excellent chemical resistance to aromatic solvents, oils, greases, oil-based products. Good chemical resistance to bases. Limited resistance to acids. Does not resist to phenol and chlorinated solvents.

### COLSPEED BLACK

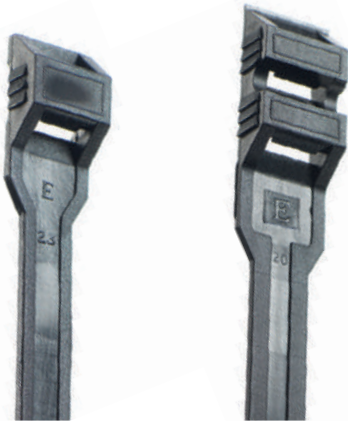


Description	Width (mm)	Length (mm)	Ø bundle max (mm)	Tensile Strength (kg)	Tensile Strength (N)	Pack (pcs.)	Code
Colspeed 8,8x200 <b>single head</b>	8,8	200	40	40,8	400	100	6501
Colspeed 8,8x290 <b>double head</b>	8,8	290	70	59,16	580	100	6502
Colspeed 8,8x380 <b>double head</b>	8,8	380	100	59,16	580	100	6503

# BELTURING PLUS



Outside serrated cable ties with low profile head and manufactured with UV-resistant polymer. For high resistance outdoor application



TEMPORARY INSTALLATION (RELEASABLE)



DEFINITIVE INSTALLATION

## CHALLENGES

High resistance to UV in outdoor, temporary locking position allows re-opening of the ties for addition or removal of cables.

## FEATURES AND BENEFITS

- High resistance to ultraviolet radiation and in outdoor conditions with significant thermal excursion
- The external rack and the parallel locking system offer a smooth surface to the fastened cables avoiding any damages to the insulation
- Temporary locking position allows re-opening of the ties for addition or removal of cable
- Packed in a special box, with hanging system and re-closing top, for the best using confort and protection in the jobsite

## APPROVALS AND CERTIFICATIONS



## TECHNICAL DATA

Material	technopolymer
Halogen	absent
Humidity absorption	<1%
Working temperature	-45°C ÷ 85°C
Installation temperature	-30°C ÷ 60°C
Flammability rating	UL 94 class HB

### Resistance external agents:

UV-resistant. (See Approvals: Tested according to ISO 4892-2: Xenon-Arc Lamp exposure). Excellent chemical resistance to aromatic solvents, oils, greases, oil-based products. Good chemical resistance to bases. Limited resistance to acids. Does not resist to phenol and chlorinated solvents.

**BELTURING PLUS**  
**SINGLE HEAD**



Description	Width (mm)	Length (mm)	Ø bundle max (mm)	Tensile Strength (kg)	Tensile Strength (N)	Pack (pcs.)	Code
Belturing plus 6x115	6	115	25	28,56	280	100	6449X
Belturing plus 6x180	6	180	45	28,56	280	100	6450X
Belturing plus 6x290	6	290	78	28,56	280	100	6452X
Belturing plus 6x360	6	360	100	28,56	280	100	6454X
Belturing plus 9x132	9	132	27	39,78	390	100	6447X
Belturing plus 9x180	9	180	40	39,78	390	100	6451X

**BELTURING PLUS**  
**DOUBLE HEAD**



Description	Width (mm)	Length (mm)	Ø bundle max (mm)	Tensile Strength (kg)	Tensile Strength (N)	Pack (pcs.)	Code
Belturing plus 9x260	9	260	60	55,08	540	100	6453X
Belturing plus 9x300	9	300	80	55,08	540	100	6448X
Belturing plus 9x360	9	360	93	55,08	540	100	6455X
Belturing plus 9x510	9	510	140	55,08	540	100	6456X
Belturing plus 9x760	9	760	220	55,08	540	100	6457X



- Vessel's electrical systems are the mainstay of life onboard. The electrical system supplies the starting power for the engine and gensets.
- Without electrical power you aren't going anywhere, as we all need power to operate radio communication equipment, electronics / navigation systems, refrigeration / freezers, navigation lights / interior lighting, electrical powered bilge pumps and more.



## STANDARD

Elematic cable ties can assure that the cabling of these critical systems will be done with the right certified cable tie.

# STANDARD CABLE TIES



Technical cable ties, in polyamide 6.6, for professional application



## FEATURES AND BENEFITS

- Guaranteed quality and performances by numerous approvals according to different international product standard
- Black cable ties, made of polyamide with special additives, have superior UV resistance than the natural colour ties
- Cost effective solution for vehicle wiring harness

## APPROVALS AND CERTIFICATIONS



## TECHNICAL DATA

Material	polyamide 6.6
Halogen	absent
Humidity absorption (50% relative humidity)	2,7%
Working temperature	-40°C ÷ +85°C
Installation temperature	-10°C ÷ 60°C
Flammability rating	UL94 class V2

**Resistance external agents:**  
Excellent chemical resistance to aromatic solvents, oils, greases, oil-based products. Good chemical resistance to bases. Limited resistance to acids. Does not resist to phenol and chlorinated solvents.

**STANDARD CABLE TIE**  
**NATURAL**



Description	Width (mm)	Length (mm)	Ø bundle max (mm)	Tensile Strength (kg)	Tensile Strength (N)	Pack (pcs.)	Code
Standard cable tie 2,5x98	2,5	98	21	8,16	80	100	5203C
Standard cable tie 2,5x98	2,5	98	21	8,16	80	1.000	5203
Standard cable tie 2,5x98	2,5	98	21	8,16	80	20.000	5203B2
Standard cable tie 2,5x135	2,5	135	32	8,16	80	100	5205C
Standard cable tie 2,5x135	2,5	135	32	8,16	80	1.000	5205
Standard cable tie 2,6x160	2,6	160	40	8,16	80	100	5206C
Standard cable tie 2,6x200	2,6	200	52	8,16	80	100	5207C
Standard cable tie 2,6x200	2,6	200	52	8,16	80	1.000	5207
Standard cable tie 3,5x140	3,5	140	32	18,36	180	100	5209C
Standard cable tie 3,5x140	3,5	140	32	18,36	180	1.000	5209
Standard cable tie 3,5x200	3,5	200	50	18,36	180	100	5214C
Standard cable tie 3,5x200	3,5	200	50	18,36	180	1.000	5214
Standard cable tie 3,5x290	3,5	290	80	18,36	180	100	5210C
Standard cable tie 3,5x290	3,5	290	80	18,36	180	500	5210
Standard cable tie 3,5x370	3,5	365	103	18,36	180	100	5208
Standard cable tie 4,5x160	4,5	160	40	22,44	220	100	5211C
Standard cable tie 4,5x160	4,5	160	40	22,44	220	1.000	5211
Standard cable tie 4,8x178	4,8	178	45	22,44	220	100	5213C
Standard cable tie 4,8x178	4,8	178	45	22,44	220	1.000	5213
Standard cable tie 4,5x200	4,5	200	50	22,44	220	100	5215C
Standard cable tie 4,8x200	4,5	200	50	22,44	220	1.000	5215
Standard cable tie 4,8x250	4,8	250	68	22,44	220	100	5216C
Standard cable tie 4,5x290	4,5	290	78	22,44	220	100	5217
Standard cable tie 4,5x360	4,5	360	100	22,44	220	100	5219
Standard cable tie 4,5x390	4,5	390	106	22,44	220	100	5218
Standard cable tie 4,5x430	4,5	430	115	22,44	220	100	5220
Standard cable tie 7,8x180	7,8	180	45	55,08	540	100	5223
Standard cable tie 7,8x240	7,5	240	63	55,08	540	100	5225
Standard cable tie 7,5x300	7,5	300	80	55,08	540	100	5226
Standard cable tie 7,5x365	7,5	365	100	55,08	540	100	5227
Standard cable tie 7,5x450	7,5	450	130	55,08	540	100	5229
Standard cable tie 7,5x540	7,5	540	158	55,08	540	100	5231
Standard cable tie 7,5x750	7,5	750	220	55,08	540	100	5233
Standard cable tie 9,0x780	9	780	233	71,4	700	100	5234
Standard cable tie 12,5x225	12,5	225	57	110	1.080	50	5235
Standard cable tie 12,5x500	12,5	500	143	110	1.080	50	5237
Standard cable tie 12,5x720	12,5	720	213	110	1.080	50	5239
Standard cable tie 12,5x850	12,5	850	255	110	1.080	50	5241
Standard cable tie 12,5x1.000	12,5	1.000	302	110	1.080	50	5243

**STANDARD CABLE TIE**  
**BLACK**



Description	Width (mm)	Length (mm)	Ø bundle max (mm)	Tensile Strength (kg)	Tensile Strength (N)	Pack (pcs.)	Code
Standard cable tie 2,5x98	2,5	98	21	8,16	80	100	5303C
Standard cable tie 2,5x98	2,5	98	21	8,16	80	1.000	5303
Standard cable tie 2,5x98	2,5	98	21	8,16	80	20.000	5303B2
Standard cable tie 2,5x135	2,5	135	32	8,16	80	100	5305C
Standard cable tie 2,5x135	2,5	135	32	8,16	80	1.000	5305
Standard cable tie 2,6x160	2,6	160	40	8,16	80	100	5306C
Standard cable tie 2,6x200	2,6	200	52	8,16	80	100	5307C
Standard cable tie 2,6x200	2,6	200	52	8,16	80	1.000	5307
Standard cable tie 3,5x140	3,5	140	32	18,36	180	100	5309C
Standard cable tie 3,5x140	3,5	140	32	18,36	180	1.000	5309
Standard cable tie 3,5x200	3,5	200	50	18,36	180	100	5314/C
Standard cable tie 3,5x200	3,5	200	50	18,36	180	1.000	5314
Standard cable tie 3,5x290	3,5	290	80	18,36	180	100	5310C
Standard cable tie 3,5x290	3,5	290	80	18,36	180	500	5310
Standard cable tie 3,5x370	3,5	365	103	18,36	180	100	5308
Standard cable tie 4,5x160	4,5	160	40	22,44	220	100	5311C
Standard cable tie 4,5x160	4,5	160	40	22,44	220	1.000	5311
Standard cable tie 4,8x178	4,8	178	45	22,44	220	100	5313C
Standard cable tie 4,8x178	4,8	178	45	22,44	220	1.000	5313
Standard cable tie 4,5x200	4,5	200	50	22,44	220	100	5315C
Standard cable tie 4,8x200	4,5	200	50	22,44	220	1.000	5315
Standard cable tie 4,8x250	4,8	250	68	22,44	220	100	5316C
Standard cable tie 4,5x290	4,5	290	78	22,44	220	100	5317
Standard cable tie 4,5x360	4,5	360	100	22,44	220	100	5319
Standard cable tie 4,5x390	4,5	390	106	22,44	220	100	5318
Standard cable tie 4,5x430	4,5	430	115	22,44	220	100	5320
Standard cable tie 7,8x180	7,8	180	45	55,08	540	100	5323
Standard cable tie 7,8x240	7,5	240	63	55,08	540	100	5325
Standard cable tie 7,5x300	7,5	300	80	55,08	540	100	5326
Standard cable tie 7,5x365	7,5	365	100	55,08	540	100	5327
Standard cable tie 7,5x450	7,5	450	130	55,08	540	100	5329
Standard cable tie 7,5x540	7,5	540	158	55,08	540	100	5331
Standard cable tie 7,5x750	7,5	750	220	55,08	540	100	5333
Standard cable tie 9,0x780	9	780	233	71,40	700	100	5334
Standard cable tie 12,5x225	12,5	225	57	110	1.080	50	5335
Standard cable tie 12,5x500	12,5	500	143	110	1.080	50	5337
Standard cable tie 12,5x720	12,5	720	213	110	1.080	50	5339
Standard cable tie 12,5x850	12,5	850	255	110	1.080	50	5341
Standard cable tie 12,5x1.000	12,5	1.000	302	110	1.080	50	5343



# UV-RESISTANT CABLE TIES



Technical cable ties, in polyamide 6.6  
uv-resistant, suitable for outdoor  
applications



## FEATURES AND BENEFITS

- Excellent resistance to ultraviolet radiation; cable ties passed the tests, for UV resistance, defined by the CEI EN 62275 standard, maintaining, after the test conditions, the 100% of the tensile declared strength (ISO 4892 - 2 - A method - 1000 hours at the xenon arc - equivalent to about 10 years of solar irradiation typical of southern European regions)
- Also suitable for installations at high operating temperatures (up to 85°C)

## APPROVALS AND CERTIFICATIONS



## TECHNICAL DATA

Material	polyamide 6.6.
Halogen	absent
Humidity absorption	2,7% (50% relative humidity)
Working temperature	-40°C ÷ 85°C
Installation temperature	10°C ÷ 60°C
Flammability rating	UL 94 class V2

**Resistance external agents:**  
High UV resistance (certified by DNV), excellent resistance to aromatic solvents, oils, greases, petroleum products, good resistance to bases, limited resistance to acids. Does not resist phenol and chlorinated solvents.

### UV-RESISTANT BLACK



Description	Width (mm)	Length (mm)	Ø bundle max (mm)	Tensile Strength (kg)	Tensile Strength (N)	Pack (pcs.)	Code
UV-resistant cable tie 2,5x98	2,5	98	21	8,16	80	100	5303CUV
UV-resistant cable tie 3,5x140	3,5	140	32	13,26	130	100	5309CUV
UV-resistant cable tie 3,5x200	3,5	200	50	18,36	130	100	5314CUV
UV-resistant cable tie 4,8x200	4,8	200	50	22,44	220	100	5315CUV
UV-resistant cable tie 4,5x290	4,5	290	78	22,44	220	100	5317UV
UV-resistant cable tie 7,5x365	7,5	365	100	55,08	540	100	5327UV

# SELF-EXTINGUISHING CABLE TIES



Self-extinguishing cable ties, in polyamide V0, for higher fire protection. Halogen and phosphorus free



## FEATURES AND BENEFITS

- Manufactured in self-extinguish polyamide with extremely low toxic gas emission in fire situations
- Good flammability behaviour

## APPROVALS AND CERTIFICATIONS



HALOGEN FREE

EN 45545-2

## TECHNICAL DATA

Material	polyamide 6.6 with additives
Halogen	absent
Humidity absorption (50% relative humidity)	2,7%
Working temperature	-40°C ÷ +85°C
Installation temperature	-10°C ÷ 60°C
Flammability rating	UL94 class V2

### Resistance external agents:

Excellent flammability behaviour (UL94 V0). Excellent chemical resistance to aromatic solvents, oils, greases, oil-based products. Good chemical resistance to bases. Limited resistance to acids. Does not resist to phenol and chlorinated solvents.

## SELF-EXTINGUISHING CABLE TIE WHITE



Description	Width (mm)	Length (mm)	Ø bundle (mm)	Tensile Strength (kg)	Tensile Strength (N)	Pack (pcs.)	Code
Self-extinguishing cable tie 2,5x98	2,5	98	21	8,16	80	100	5203CV0
Self-extinguishing cable tie 3,5x140	3,5	140	32	18,36	180	100	5209CV0
Self-extinguishing cable tie 3,5x200	3,5	200	50	18,36	180	100	5214CV0
Self-extinguishing cable tie 4,8x200	4,8	200	50	22,44	220	100	5215CV0
Self-extinguishing cable tie 4,5x290	4,5	290	78	22,44	220	100	5217V0
Self-extinguishing cable tie 7,5x365	7,5	365	100	55,08	540	100	5227V0



# COLSTEEL CABLE TIES

Completely stainless steel cable tie with high mechanical strength, resistant to fire and corrosion



## FEATURES AND BENEFITS

- Quick installation, by manual tightening and tensioning with the specific tool
- The ball locking mechanism and the smooth surface offer a very low insertion effort and a infinitely calibrated closing adjustment along all the length of the tie
- High mechanical strength: for safety and high performance applications, which can be guaranteed, only with a metal tie
- The total-smooth profiles and surfaces avoid any damage to the insulation of the electrical cables to be bundled
- Fire resistant, suitable for very high operating temperatures
- Available in 304 and also in 316 stainless steel grade for the highest corrosion and chemical resistance

## APPROVALS AND CERTIFICATIONS



## TECHNICAL DATA

Material	stainless steel INOX AISI 304 and 316
Working temperature	-60°C ÷ 530°C
	Not inflammable

**Resistance external agents:**  
Excellent resistance to acids, oils, greases, oil-based products, chemical and oxidizing agents, solvents. High resistance in salt mist atmosphere. Corrosion resistant. UV-resistant

## TENSIONING TOOL 5407

Automatic tensioning tool for stainless steel cable ties up to 7,9 mm maximum width



**COLSTEEL**  
**AISI 304**



Description	Width (mm)	Length (mm)	Ø bundle max (mm)	Tensile Strength (kg)	Tensile Strength (N)	Pack (pcs.)	Code	Recommended tool
Colsteel 4,6x127 - AISI 304	4,6	127	25	45,4	445	100	6701	5407
Colsteel 4,6x201 - AISI 304	4,6	201	51	45,4	445	100	6703	5407
Colsteel 4,6x266 - AISI 304	4,6	266	69	45,4	445	100	6706	5407
Colsteel 4,6x362 - AISI 304	4,6	362	102	45,4	445	100	6708	5407
Colsteel 4,6x521 - AISI 304	4,6	521	152	45,4	445	50	6710	5407
Colsteel 4,6x838 - AISI 304	4,6	838	254	45,4	445	50	6712	5407
Colsteel 7,9x201 - AISI 304	7,9	201	51	113,4	1.112	100	6719	5407
Colsteel 7,9x266 - AISI 304	7,9	266	69	113,4	1.112	100	6720	5407
Colsteel 7,9x362 - AISI 304	7,9	362	102	113,4	1.112	100	6722	5407
Colsteel 7,9x521 - AISI 304	7,9	521	152	113,4	1.112	50	6724	5407
Colsteel 7,9x838 - AISI 304	7,9	838	254	113,4	1.112	50	6726	5407
Colsteel 7,9x1.067 - AISI 304	7,9	1.067	304	113,4	1.112	50	6728	5407

**COLSTEEL**  
**AISI 316**



Description	Width (mm)	Length (mm)	Ø bundle max (mm)	Tensile Strength (kg)	Tensile Strength (N)	Pack (pcs.)	Code	Recommended tool
Colsteel 4,6x201 - AISI 316	4,6	201	51	91,8	445	100	6753	5407
Colsteel 4,6x266 - AISI 316	4,6	266	69	91,8	445	100	6756	5407
Colsteel 4,6x362 - AISI 316	4,6	362	102	91,8	445	100	6758	5407
Colsteel 4,6x521 - AISI 316	4,6	521	152	91,8	445	50	6760	5407
Colsteel 7,9x201 - AISI 316	7,9	201	51	204	1.112	100	6769	5407
Colsteel 7,9x266 - AISI 316	7,9	266	69	204	1.112	100	6770	5407
Colsteel 7,9x362 - AISI 316	7,9	362	102	204	1.112	100	6772	5407

**TENSIONING TOOL**  
**5407**



Description	Length (mm)	Weight (gr)	Tensile Strength (N)	Pack (pcs.)	Code
Stainless steel tensioning tool for ties 7,9 max	178	560	445	1	5407

# HEAT RESISTANT CABLE TIES

Technical cable ties, suitable for high temperature applications, up to 150°C



### CHALLENGES

Heat resistant cable ties up to 150°C for indoor applications

### FEATURES AND BENEFITS

- High temperatures resistance: up to 125°C in continuous, up to 150°C for 500 h.

### APPROVALS AND CERTIFICATIONS



### TECHNICAL DATA

Material	polyamide 6.6. with additives
Halogen	absent
Humidity absorption	2,7% (50% relative humidity)
Working temperature	-40°C ÷ 125°C
Installation temperature	10°C ÷ 60°C
Flammability rating	UL 94 class V2

**Resistance external agents:**  
Resistant to high temperatures. Excellent chemical resistance to aromatic solvents, oils, greases, oil-based products. Good chemical resistance to bases. Limited resistance to acids. Does not resist to phenol and chlorinated solvents.

**HEAT RESISTANT CABLE TIE**  
**NATURAL**



Description	Width (mm)	Length (mm)	Ø bundle max (mm)	Tensile Strength (kg)	Tensile Strength (N)	Pack (pcs.)	Code
Heat resistant cable tie 2,5x98	2,5	98	21	8,16	80	100	5203CT
Heat resistant cable tie 3,5x140	3,5	140	32	18,36	180	100	5209CT
Heat resistant cable tie 3,5x200	3,5	200	50	18,36	180	100	5214CT
Heat resistant cable tie 4,8x200	4,8	200	50	22,44	220	100	5215CT
Heat resistant cable tie 4,5x290	4,5	290	78	22,44	220	100	5217T
Heat resistant cable tie 7,5x365	7,5	365	100	55,08	540	100	5227T

**HEAT RESISTANT CABLE TIE**  
**BLACK**

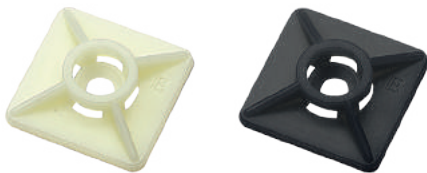


Description	Width (mm)	Length (mm)	Ø bundle max (mm)	Tensile Strength (kg)	Tensile Strength (N)	Pack (pcs.)	Code
Heat resistant cable tie 2,5x98	2,5	98	21	8,16	80	100	5303CT
Heat resistant cable tie 3,5x140	3,5	140	32	18,36	180	100	5309CT
Heat resistant cable tie 3,5x200	3,5	200	50	18,36	180	100	5314CT
Heat resistant cable tie 4,8x200	4,8	200	50	22,44	220	100	5315C T
Heat resistant cable tie 4,5x290	4,5	290	78	22,44	220	100	5317T
Heat resistant cable tie 7,5x365	7,5	365	100	55,08	540	100	5327T

# TWO-WAY MOUNTING BASES



Bi-directional mounts, in ABS material, white or black colour, self-adhesive or for screw fixing



## FEATURES AND BENEFITS

- Available for two different mounting, these bases allow a simple, flexible and safe fastening by cable ties up to 4,8 mm width
- The syntetic rubber adhesive ensures a very fast adhesiveness, allowing an immediate fixing of the cables and pipes.
- The acrylate adhesive, which ensures very high pull-off performances after 24 hours, allows the mounts to be used for long-term and heavy applications, even when exposed to high temperatures

## APPROVALS AND CERTIFICATIONS

**HALOGEN FREE**

### ADHESIVE PROPERTIES

Type of support	Rubber base - Polyethylene	Acrylic base - Polyurethane
Density	85 Kg/cm <sup>3</sup>	320 Kg/cm <sup>3</sup>
100 hour static shear adhesion*	0,7 kg/cm <sup>2</sup>	0,6 kg/cm <sup>2</sup>
Tensile strength	10 kg/cm <sup>2</sup>	16,5 kg/cm <sup>2</sup>
U.V. Resistance	not recommended	good
Working temperature	-40 °C ÷ 60 °C	-40 °C ÷ 90 °C
Recommended application temperature	18 °C ÷ 35 °C	18 °C ÷ 35 °C
Stocking temperature	18 °C ÷ 30 °C	18 °C ÷ 30 °C
Shelf life	12 months	24 months
Use	immediate application	application after 24h rest

\* On degreased and dry galvanized metal surface

### MOUNTING BASES ADHESIVITY

Maximum static load recommended	Rubber base adhesive	Acrylic base adhesive
Dimensions 19x19 mm	125 gr	150 gr
Dimensions 27x27 mm	300 gr	300 gr

### INSTALLATION INSTRUCTIONS



Clean the surface using an appropriate cleaner and wait until completely dried.



Peel off the protective film avoiding touching the adhesive.

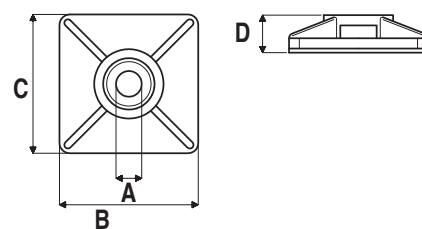


Apply the base on the surface pressing down for few seconds.



For the best results wait time indicated in the technical table.





### TWO-WAY MOUNTING BASE WITHOUT ADHESIVE

Description	∅ hole (mm)	Length (mm)	Width (mm)	Height (mm)	Tensile Strength (kg)	Tensile Strength (N)	Max. cable tie width (mm)	Color	Pack (pcs.)	Code
	A	B	C	D						
Two-way mounting base 4,8x27x27 natural	4,8	27	27	6,5	18,36	180	4,8	○	100	5472
Two-way mounting base 4,8x27x27 black	4,8	27	27	6,5	18,36	180	4,8	●	100	5474

### TWO-WAY MOUNTING BASE WITH RUBBER BASE ADHESIVE

Description	∅ hole (mm)	Length (mm)	Width (mm)	Height (mm)	Tensile Strength (kg)	Tensile Strength (N)	Max. cable tie width (mm)	Color	Pack (pcs.)	Code
	A	B	C	D						
Two-way mounting base 4,1x19x19 natural	4,1	19	19	5	10,20	100	3,6	○	100	5467RB
Two-way mounting base 4,1x19x19 black	4,1	19	19	5	10,20	100	3,6	●	100	5469RB
Two-way mounting base 4,8x27x27 natural	4,8	27	27	6,5	18,36	180	4,8	○	100	5473RB
Two-way mounting base 4,8x27x27 black	4,8	27	27	6,5	18,36	180	4,8	●	100	5475RB

### TWO-WAY MOUNTING BASE WITH ACRYLIC BASE ADHESIVE

Description	∅ hole (mm)	Length (mm)	Width (mm)	Height (mm)	Tensile Strength (kg)	Tensile Strength (N)	Max. cable tie width (mm)	Color	Pack (pcs.)	Code
	A	B	C	D						
Two-way mounting base 4,1x19x19 natural	4,1	19	19	5	10,20	100	3,6	○	100	54673MV
Two-way mounting base 4,1x19x19 black	4,1	19	19	5	10,20	100	3,6	●	100	54693MV
Two-way mounting base 4,8x27x27 natural	4,8	27	27	6,5	18,36	180	4,8	○	100	54733MV
Two-way mounting base 4,8x27x27 black	4,8	27	27	6,5	18,36	180	4,8	●	100	54753MV





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