



2-LOCK™

THE FIRST CABLE TIE
WITH DOUBLE METAL TOOTH



THE INNOVATIVE
CABLE TIES
DESIGNED
FOR INDUSTRY



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*2-LOCK™
state of the art
cable ties*



Elematic is the world
leading suppliers



CABLE TIES AND FIXING SOLUTIONS

Elematic has been active on the market since 1977 as manufacturer of cable ties, fastening and anchoring systems; Elematic commitment has always been the creation of innovative and high quality products especially addressed to industrial use. After nearly 40 years **Elematic is the world leading suppliers** of cable management solutions.

Elematic thought is to offer a range of product able to make the job of fastening and cable **management quicker and easier** in several industrial applications as well as the electrical installation specialists.

THE STRENGTH OF A BIG GROUP

ITW (Illinois Tool Works) is a leading diversified manufacturing company, based in Glenview, Illinois (USA).

ITW designs and manufactures highly engineered fasteners and components, equipment and consumable systems, and a high variety of specialty products and equipment for customers around the world.

Since 1998, Elematic belongs to ITW Group: service, innovation and technology.

CERTIFIED WITH QUALITY SYSTEM



ISO 9001:2008

The Company is certified according to **ISO 9001: 2008**, for the design and manufacturing of cable ties and fixing systems for engineering plastics, sales of accessories for wiring and mounting, is able to guarantee the quality of the production process, thanks to the application of specific operating procedures and the implementation of stringent quality control at all levels.



ISO 14001:2004

Aware of the importance of our impact on the environment, we have undertaken an environmental certification path that allows us to reduce this impact as much as possible. To date all Italian sites are certified according to **ISO 14001: 2004** for the design and production of cable ties and fixing systems with engineering plastics injection molding process and marketing of wiring accessories and fasteners.

The metal teeth
are not post-installed,
but incorporated
during the molding.

THE NEW INNOVATIVE CABLE TIE. WORLDWIDE UNIQUE WITH DOUBLE METAL TOOTH

In addition to the standard cable tie range, Elematic also **develops and manufactures** a new, innovative and **patented** cable tie specifically created for demanding application where the high quality, excellent mechanical performances and absolute reliability is required.

2-LOCK™ the best in class cable tie - assures the highest performances in the world and fit perfectly the sophisticated needs of the industrial channels (automotive, heavy duty, communication, power & energy, OEM).



The quality of polyamide 6.6 top-notch

2-LOCK™ is made in polyamide 6.6, both in natural and black weather resistant version. Polyamide 6.6, the most commonly used material in the production of cable ties, reaches the highest level of performance with the innovative structure of 2-LOCK™. **The excellent combination of chemical behaviour** (silicone, halogen free, good **resistance to solvents and oil derivate**) coupled with the **outstanding mechanical performances** assures the best service level in ordinary and most severe working conditions.

The incorporate plate in stainless steel marine grade type 316

The metal plate incorporated in the cable-tie enables the excellent **resistance to corrosion** and the **long lasting** and **reliable fixing** even in the most adverse environmental conditions.

E ELEMATIC®

2-LOCK™



SAFETY
BEYOND THE LIMIT



UV
RESISTANT



UV 94 V2
FIRE
RESISTANCE



MIN. INSTALLATION
TEMPERATURE



MAX OPERATING
TEMPERATURE



HIGHEST
MECHANICAL
STRENGTH



LONG LASTING
AND RELIABLE
FIXING



FAST & EASY
TO APPLY



HIGH RESISTANCE
TO SHOCK
AND VIBRATIONS



RESISTANCE TO
CORROSION



The advanced
but easy to use cable-tie.
The only safe, even beyond the limit.

AUTOMOTIVE

Over the past decade, the automotive industry move significantly forward in overall product quality improvement, calling suppliers of components to support this trend.

This led all providers to focus on R&D activities aimed to enrich their offer with **advanced items suitable for the new production requirements level.**

This is the reason why Elematic invented **2-LOCK™**: **the unique cable tie in the world with double metal tooth!**

“ **2-LOCK™**
improves the value proposition! ”

YOUR NEEDS



SAFETY AND RELIABILITY

The **double tooth** in the plastic body, if compared with the single tooth type, shows substantially improved service performance allowing a consistent benefit in term of safety and reliability in case of critical solicitations.



RESISTANT TO CORROSION AND TO VIBRATION

The double tooth in AISI 316 stainless is highly resistant to corrosion. The metal plate incorporated in the cable-tie head thanks to the special **overmoulding technology patented** by Elematic makes 2-LOCK™ more resistant to vibrations than any other cable ties in the market.





HEAVY DUTY APPLICATION

Top quality, high service performance in extreme conditions and durable components: these are the key needs for truck and heavy equipment industries.

2-LOCK™ cable ties are expressly **designed and tested for extremely heavy duty applications**, including: **trucks, trailers, buses, agricultural machinery, heavy-duty vehicles, mining equipment.**

Thanks to its exclusive and **patented features**, 2-LOCK™ provides a level of **performance and safety incomparable** with other cable ties on the market: surplus of mechanical strength, higher resistance to vibration and to dynamic loads make the 2-LOCK™ the ideal product for manufacturing, assembling and maintenance of heavy duty vehicles.

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2-LOCK™

incomparable cable ties!



Top quality and
highest performance
in extreme conditions.

YOUR NEEDS



INCOMPARABLE SAFETY

The **double tooth** in the plastic body shows substantially improved service performance allowing a consistent benefit in term of safety and reliability in case of dynamic loads.



HIGHEST TENSILE STRENGTH

The highest tensile strength with the lowest insertion effort.



RESISTANT TO VIBRATION AND TO DYNAMIC LOADS

The metal plate incorporated in the cable-tie head thanks to the special **overmoulding technology patented** by Elematic makes 2-LOCK™ more resistant to vibrations and dynamic loads than any other cable ties in the market.



ELEMATIC 2-LOCK™

POWER & ENERGY

The **efficient, effective** and ecological use of electrical and electronic equipment is one of challenge for the future. Elematic delivers targeted solutions for the power industry and for every application in challenging environments through **innovative products** that manage wire, cable and components mainly on renewable energy field.

As specialist for cable ties and fastening products, we assume that only components meeting the highest standards are able to provide **highly reliable solutions assuring a long service life**. We well know that the construction of wind generators, as well of power plants, have to take care of the effect of **extreme environmental conditions** that their components have to withstand during service. It is of vital importance to ensure that each part used in their assembly is capable of a long and reliable performance in order **to avoid cost related to unforeseen maintenance** or out of service periods.

This is the reason why Elematic has develop **2-LOCK™ cable tie, able to assure the highest level performance in service**; the combination of the overmoulded, stainless steel, double tooth locking system and the top quality polyamide provides the maximum resistance to the typical environmental agents such as temperature, vibrations, etc.

“ **2-LOCK™**
*the choice for
safe energy management!* ”



YOUR NEEDS



MAXIMUM SAFETY AND RELIABILITY

The combination of the **overmoulded, stainless steel, double tooth** locking system and the top quality polyamide provides the maximum resistance to the typical environmental agents such as temperature, vibrations, etc.



RESISTANT TO ENVIRONMENTAL ELEMENTS TEMPERATURE, EXTERNAL AGENTS, VIBRATION

The highly corrosion resistant double tooth in AISI 316 stainless and the metal plate incorporated in the cable-tie head thanks to the special **overmoulding technology patented** by Elematic, makes 2-LOCK™ more resistant to vibrations than any other cable ties in the market.



The world of tomorrow
will be the consequence of
how we manage the energy now!



TELECOMMUNICATIONS

Extreme weather conditions (sun, rain, snow, wind, low temperature) can cause damages and malfunctions in equipment and facilities dedicated to strategic activities (**telecommunications, weather stations, funicular's plants**, etc.) for which a break can lead to dangerous disruptions or expensive works of maintenance in particularly critical environments.

Since we want to assure the best solution for the individual needs of our customers, **we set the highest standards in the area of cable ties and cable management systems.**

Our aim is to deliver the **highest possible operating reliability** and investment security offering the right product for the different application.

“ 2-LOCK™

the answer to your demanding needs



YOUR NEEDS



UV RESISTANT

The special material black UV, makes 2-LOCK™ **highly resistant to external agents.**



RESISTANT TO EXTREME WEATHER CONDITIONS

The **smooth surface on both sides** combined with the **innovative overmoulded double tooth locking system** assure the highest mechanical performance in every environmental service condition.



ELEMATIC 2-LOCK™

The highest performances
in the best-in-class
cable ties

WHITE GOODS

Elematic has always been available for development of tailored fastening products following special requirements of its OEM customers. Through the year Elematic became one of the **most reliable partner in the Industrial supply chain**, able to supply billions of cable ties and other fastening products.

The **OEM customers usually ask for high quality and reliable fastening elements** because the failure of a theoretically minor component can bring heavy damage the the equipment and – what is worse – can harm the value and the awareness of its manufacturer. The knowledge of Elematic as experienced specialist, the newest quick prototyping methodology, the **advanced in-house injection moulding technology** combined with the Italian inventiveness has brought the last innovation in the world of cable ties.

“ 2-LOCK™
state of the art cable ties

YOUR NEEDS



SAFETY AND RELIABILITY

The **double tooth** in the plastic body shows substantially improved service performance allowing a consistent benefit in term of safety and reliability.



HIGHEST TENSILE STRENGTH, EASY TO APPLY

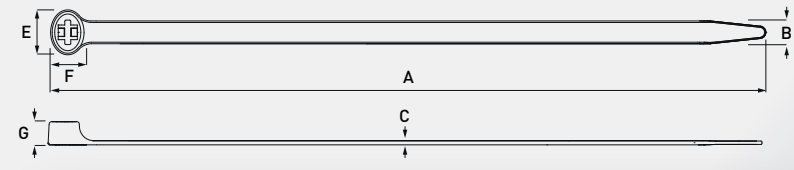
The highest tensile strength with the lowest insertion effort.
The smooth surface on both sides combined with the innovative overmoulded double tooth locking system allows an insertion effort lower than competitive products enabling overturned applications, as well. Last but not the least, the rounded head and smooth shape avoid damage during applications.



EXCLUSIVE PRODUCT

2-LOCK™ cable ties and the production process are **patented, certified** and **Made in Italy**.





APPLICATION

Installation temperature:
-40°C ÷ 60°C

Working temperature:
-40°C ÷ 85°C

Umidity absorption:
1,3% ÷ 1,5% (23°C - 50% R.H.)

MATERIALS

Material: polyamide 6.6 natural (+1% carbon black for black version) with double tooth in stainless steel AISI 316 (cage)

Material flammability rating:
UL 94-V2

Halogen free

UV resistant (black version)

Excellent resistance to:
aromatic solvents, oils, greases, oil derivates.

Good resistance to: bases

Limited resistance to: acids

Not resistant to:
phenols and to chlorinated solvents.

COLOURS

● Natural

● Black (UV resistant)

APPROVALS / CERTIFICATIONS

Omologation:

DNV-GL

MARITIME

DNV-GL TAE000000G

EC Directives:
Material used to produces listed cable ties comply with EC Directives:

- 200/53/EC (ELV)
- 2012/19/EC (WEEE)
- 203/11/EC

PATENTED

DK2646338 (T3)
US D695601 S1

CODE		mm
Natural	Black	A
1203	1303	100
1207	1307	200
1209	1309	140
1210	1310	290
1214	1314	200
1215	1315	200
1216	1316	250
1217	1317	290
1219	1319	360
1225*	1325	220
1227	1327	360

CODE		Tensile strength
Natural	Black	New
1203	1303	1
1207	1307	1
1209	1309	2
1210	1310	2
1214	1314	2
1215	1315	3
1216	1316	3
1217	1317	3
1219	1319	3
1225*	1325	7
1227	1327	7

** Please consider a suitable safety rate equivalent to the application

* Not DNV-GL certified

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ELEMATIC®

PERFORMANCE:

IT'S ALL ABOUT THE HEAD



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