

# TYPE APPROVAL CERTIFICATE

## This is to certify:

**That the Cable Ties**

with type designation(s)  
**ELEMATIC-2-LOCK**

Issued to

**ITW CONSTRUCTION PRODUCTS ITALY SRL**  
**PADOVA, Italy**

is found to comply with  
**DNV GL rules for classification – Ships, offshore units, and high speed and light craft**

## Application :

**Product(s) approved by this certificate is/are accepted for installation on all vessels classed by DNV GL.**

**Material**                      **Plastic**  
**Suitable for open deck**   **Yes (black version only)**

Issued at **Hamburg** on **2020-02-10**

for **DNV GL**

This Certificate is valid until **2025-02-09**.

DNV GL local station: **Venice**

Approval Engineer: **Carsten Hunsalz**

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**Arne Schaarmann**  
**Head of Section**

This Certificate is subject to terms and conditions overleaf. Any significant change in design or construction may render this Certificate invalid. The validity date relates to the Type Approval Certificate and not to the approval of equipment/systems installed.



Job Id: **262.1-016333-3**  
Certificate No: **TAE000000G**  
Revision No: **1**

## Product description

Type: 2-LOCK Cable Ties with stainless steel frame (AISI 316) with double tooth.

Material: Polyamide 6.6 natural or with Black Masterbatches (for black version).

Flammability of raw material: UL94-V2.

Installation temperature: - 40 °C to + 60 °C

Working temperature: - 40 °C to + 85 °C

Loop Tensile Strength: Type 2: Retains 100% strength after testing

Loop Tensile Strength: Type 1: Retains at least 50% strength after testing

Type code		Length mm	Width mm	Tensile strength	LTS Type
Nat.	black				
1203	1303	100	2,5	150	1
1207	1307	200	2,5	150	1
1209	1309	140	3,5	250	2
1210	1310	290	3,5	250	2
1214	1314	200	3,5	250	2
1215	1315	200	4.5	360	2
1216	1316	250	4.5	360	2
1217	1317	290	4.5	360	2
1219	1319	360	4.5	360	2
	1325	220	7,5	780	2
1227	1327	360	7.3	780	2

Classification according to IEC 62275:

6.1 Material:	Non Metallic
6.2 Loop tensile strength:	LTS Type 1: Retains 50% strength after testing LTS Type 2: Retains 100% strength after testing
6.3 Temperature:	Maximum operation temperature [°C]: 85°C Minimum operation temperature [°C]: -40°C Minimum installation temperature [°C]: -40°C
6.4 Contribution to fire:	Non-flame propagating
6.5.1 Resistance to UV light:	Resistant (black version only)
6.5.2 Resistance to corrosion:	resistant

## Application/Limitation

For fixing of cables, outdoor (black version only) and indoor, onboard ships and mobile offshore units.

To be installed according with the manufacturer`s instructions and DNV GL rules.

## Type Approval documentation

ELEMATIC technical datasheets "Cable tie", rev. 25.02.2019.

IMQ test report No. CN13S0205730 issued 2014-05-09.

IMQ test report No. MI15S0406989-01/1 issued 2015.06.08

IMQ test report No. MI15S0406989-01/2 issued 2015.06.08

IMQ test report No. CN17-0015336-01 issued 2017.09.18

UL test report No. 4788133152 issued 2017-06-15

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## Tests carried out

Type tests in accordance with DNV Type Approval Program / IEC 62275.

Loop tensile strength for ties retaining 50% and 100% strength after testing according table on page 2.

## Marking of product

The smallest package is to be marked with the following:

- Manufacturer's name / trade mark & catalog type designation
- Manufacturer's rated load ( tensile strength ) as per catalogue
- Dimensions
- Type of product
- Maximum bundle diameter
- Temperature conditions

## Periodical assessment

The scope of the periodical assessment is to verify that the conditions stipulated for the Type approval are complied with and that no alterations are made to the product design or choice of materials.

The main elements of the assessment are:

- Inspection on factory samples, selected at random from the production line (where practicable)
- Results from Routine Tests (RT) checked (if not available tests according to RT to be carried out)
- Review of type approval documentation
- Review of possible change in design, materials and performance
- Ensuring traceability between manufacturer's product type marking and Type Approval Certificate.

Periodical assessment is to be performed after 2 years and after 3.5 years. A renewal assessment will be performed at renewal of the certificate.

END OF CERTIFICATE