

TYPE APPROVAL CERTIFICATE

This is to certify:**That the Metalic Cable Ties, clip & Band**

with type designation(s)

BL, BLH, EL, ELH, ML, MLH, RTE, RT, RTH type cable ties

Issued to

Surelock Plastics Pvt. Ltd**Silvassa U.T.of Dadra & Nagar Haveli,, India**

is found to comply with

DNV GL rules for classification – Ships, offshore units, and high speed and light craft**Application :****For fixing of cables onboard ships and mobile offshore units.****Material****Suitable for open deck**Issued at **Høvik** on **2017-09-04**This Certificate is valid until **2022-12-31**.DNV GL local station: **Mumbai**for **DNV GL**Approval Engineer: **Nicolay Horn**

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Andreas Kristoffersen
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.



Product description

Type:	Ball Lock Ties		
Material:	Stainless Steel 304 or 316, with or without coating		
Min. tensile strength:	4,6 mm: 588 N (60 Kgf), 7,9 mm: 1666 N (170 Kgf)		
Models / sizes:			
Part no.	Length [mm]	Width [mm]	Thickness [mm]
BL-xxxx	100 to 2000	4,6	0,25
BLH-xxxx	100 to 2000	7,9	0,25

xxxx is the length of the cable ties from 100 mm to 2000 mm.

Type:	Easy Lock Ties		
Material:	Stainless Steel 304 or 316, with or without coating		
Min. tensile strength:	7,0 mm: 431 N (44 Kgf), 12,0 mm: 1088 N (111 Kgf)		
Models / sizes:			
Part no.	Length [mm]	Width [mm]	Thickness [mm]
EL-xxxx	100 to 2000	7,0	0,25
ELH-xxxx	100 to 2000	12,0	0,25

xxxx is the length of the cable ties from 100 mm to 2000 mm.

Type:	Multi Lock Ties		
Material:	Stainless Steel 304 or 316, with or without coating		
Min. tensile strength:	7,0 mm: 588 N (60 Kgf), 12,0 mm: 1274 N (130 Kgf)		
Models / sizes:			
Part no.	Length [mm]	Width [mm]	Thickness [mm]
ML-xxxx	100 to 2000	7,0	0,25
MLH-xxxx	100 to 2000	12,0	0,25

xxxx is the length of the cable ties from 100 mm to 2000 mm.

Type:	Reusable Economy Ties		
Material:	Stainless Steel 304 or 316, with or without coating		
Min. tensile strength:	5,0 mm: 1176 N (120Kgf)		
Models / sizes:			
Part no.	Length [mm]	Width [mm]	Thickness [mm]
RTE-xxxx	100 to 2000	5,0	0,5

xxxx is the length of the cable ties from 100 mm to 2000 mm.

Type:	Reusable Ties		
Material:	Stainless Steel 304 or 316, with or without coating		
Min. tensile strength:	6,3 mm: 1460 N (149 Kgf), 9,5 mm: 1774 N (181Kgf)		
Models / sizes:			

Part no.	Length [mm]	Width [mm]	Thickness [mm]
RT-xxxx	100 to 2000	6,3	0,5
RTH-xxxx	100 to 2000	9,5	0,5

xxxx is the length of the cable ties from 100 mm to 2000 mm.

Classification according to IEC 62275

Classification		Note
6.1 Material	Metallic component	Uncoated ties
	Composite component	Coted ties
6.2 Loop tensile strength for cable ties	431 N – 1774 N	Depends of type of ties
6.2.2 Type 2	Retains 100 % declared loop tensile strength after test conditions	
6.3.1 Maximum operating temperature for application	540 °C	Uncoated ties
	150 °C	Coated ties
6.3.2 Minimum operating temperature for application	-80 °C	
6.3.2 Minimum temperature during instalation	-80 °C	
6.4 Contribution to fire	Non-flame propagating	
6.5 Environmental influences	Resistant to UV light	
	Resistant to corrosion	

Application/Limitation

For fixing of cables onboard ships and mobile offshore units.

Type Approval documentation

Tests carried out

Mandatory tests according to type approval programme DNVGL-CP-0407:
Loop tensile strength for ties retaining 100% strength after testing.

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 Kgf) as per catalogue
- Dimensions
- Type of product (coated / uncoated)
- Maximum bundle diameter
- Temperature conditions

Periodical assessment

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

The main elements of the assessment are:

- Inspection of factory samples, selected at random from the production line (where practicable)



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Certificate No: **TAE00001YN**

- Results from Production Sample Tests (PST) and Routines (RT) checked (if not available tests according to PST and 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.

Assessment to be performed at 2 and 3,5 year and at renewal.

END OF CERTIFICATE