

TYPE APPROVAL CERTIFICATE

Certificate No:
TAE00000TW
Revision No:
1

This is to certify:

That the Cable Ties

with type designation(s)
NZ-1 series

Issued to

YueQing XinXing Cable Accessories Co., Ltd.
YueQing, China

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	No

Issued at **Hamburg** on **2021-04-22**

This Certificate is valid until **2026-04-21**.

DNV local station: **Ningbo CMC**

Approval Engineer: **Carsten Hunsalz**

for **DNV**

.....
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.

LEGAL DISCLAIMER: Unless otherwise stated in the applicable contract with the holder of this document, or following from mandatory law, the liability of DNV AS, its parent companies and their subsidiaries as well as their officers, directors and employees ("DNV") arising from or in connection with the services rendered for the purpose of the issuance of this document or reliance thereon, whether in contract or in tort (including negligence), shall be limited to direct losses and under any circumstance be limited to 300,000 USD.



Product description

Nylon cable ties :

Series	Dimensions [mm]			Declared Tensile (N)	Min to Max Installation Temperature
	W	T	L		
NZ-1 3mm	3	1	100-150	50	-40°C to + 85°C
NZ-1 4mm	4	1,2	200-250	150	-40°C to + 85°C
NZ-1 5mm	5	1,5	250-300	200	-40°C to + 85°C
NZ-1 8mm	8	1,6	145-400	400	-40°C to + 85°C
NZ-1 10mm	10	1,8	300-600	500	-40°C to + 85°C

Classification according to IEC 62275 :

6.1 Material	Non-metallic component
6.2 Loop tensile strength for cable ties	50-500
6.2.3 Type 2	Retains 100% declared loop tensile strength after test condition
6.3.1 Maximum operating temperature for application	85°C
6.3.2 Minimum operating temperature for application	-40°C
6.3.3 Minimum temperature during installation	-40°C
6.4 Contribution to fire	Flame propagating (NZ-1 3mm-5mm)
	Non-flame propagating (NZ-1 8mm-10mm)
6.5.1 Resistance to ultraviolet light	Not declared
6.5.2 Resistance to corrosion	Resistant to corrosion

Application/Limitation

Not suitable for open deck.

To be installed in accordance with the manufacturer's instructions and DNV GL rules.

Type Approval documentation

Documentation listed under approval letters [MCANO381/PONT/262.1-019985-J-22 dated 2016-02-15](#) and [MCANO381/PONT/262.1-019985-J-16 dated 2015-12-14](#)

Tests carried out

Tested according to IEC62275 (Installation, Minimum installation temperature, minimum operating temperature, Loop tensile strength, flame test, resistance to corrosion)

Marking of product

Company name, Type designation and Dimension

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