



Certificate no.:
TAE000050V

TYPE APPROVAL CERTIFICATE

This is to certify:

that the Cable Ties

with type designation(s)

XLS-2.5X series, XLS-3.6X series, XLS-4.8X series, XLS-7.6X series, XLS-9.0X series, XLS-12.5X series,

issued to

Shanghai Xinlong Plastic Manufacturing Co., Ltd
Shanghai, China

is found to comply with

DNV 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.

Material Plastic

Suitable for open deck Yes (black version only)

Issued at **Hamburg** on **2024-01-23**

This Certificate is valid until **2029-01-22**.

for **DNV**

DNV local unit: **Shanghai**

Approval Engineer: **Carsten Hunsalz**

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 USD 300 000.

Product description

Type:	XLS-2.5X series, XLS-3.6X series, XLS-4.8X series, XLS-7.6X series, XLS-9.0X series, XLS-12.5X series,				
Material:	Nylon 66				
Colour:	Black (UV resistant), nature, red, orange, blue, green, yellow				
Article	Length [mm]	Width [mm]	Thickness [mm]	Diameter Range [mm]	Loop Tensile Strength [N]
XLS-2.5X100 to XLS-2.5X200	100-200	2,5	1,10	2 to 60	81
XLS-3.6X100 to XLS-3.6X370	100-370	3,6	1,20	2 to 102	180
XLS-4.8X120 to XLS-4.8X750	120-750	4,8	1,20	3,0 to 227	223
XLS-7.6X150 to XLS-7.6X750	150-750	7,6	1,45	3,0 to 223	533
XLS-9.0X400 to XLS-9.0X1500	400-1500	9,0	1,80	10 to 481	800
XLS-12.5X225 to XLS-12.5X1200	225-1200	12,5	1,80	10 to 364	1125

Details according to manufacturer's specification,

Classification according to IEC 62275:

6.1 Material:	Non Metallic
6.2 Loop tensile strength:	Type 1: Retains 50% strength after testing
6.3 Temperature:	Maximum operation temperature [°C]: 85°C Minimum operation temperature [°C]: -40°C Minimum installation temperature [°C]: -20°C
6.4 Contribution to fire:	Not necessary to declare
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 rules.

Type Approval documentation

Tests carried out

Mandatory tests for non-metallic types according to type approval programme DNV-CP-0407 and IEC 62275 2022-11

Loop tensile strength for ties retaining 50% strength after testing.

Marking of product

The smallest package is to be marked with the following:

- Manufacturer's name / trade mark & catalogue 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