



Certificate no.:
TAK00002GA

TYPE APPROVAL CERTIFICATE

This is to certify:

that the **Synthetic Fibre Ropes**

with type designation(s)
12-strand braided and double braided UHMWPE ropes

issued to

Yangzhou Xinglun Rope Cable Co., Ltd.
Yangzhou, Jiangsu Province, China

is found to comply with

OCIMF Mooring Equipment Guidelines (MEG4), Fourth Edition 2018 [test requirements]
DNV class programme DNV-CP-0100 – Type approval – Synthetic fibre ropes for towing, mooring and anchoring

Application:

Mooring and Towing of Ships.

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

Issued at **Hamburg** on **2025-05-08**

This Certificate is valid until **2030-05-07**.

for **DNV**

DNV local unit: **Nanjing NB & CMC**

Approval Engineer: **Joachim Rehbein**

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

Ultra High Molecular Weight Polyethylene (UHMWPE) Ropes: 12-strand braided / double braided fibre ropes.

- Specific gravity: 0,97 (floats in seawater)

Compliance with OCIMF Mooring Equipment Guidelines (MEG4):

Mooring Line Base Design Certificate – for 12-strand braided UHMWPE 24 mm and 76 mm

Certificate No.: XLR20240803

Issued date: 2025-03-19

Mooring Line Base Design Certificate – for double braided UHMWPE 24 mm and 76 mm

Certificate No.: XLR20240804

Issued date: 2025-03-19

Mooring Line Certificate will be issued with reference to Mooring Line Base Design Certificate.

Rope Characteristics

The rope characteristics are tabulated below observing the following:

- Ropes to be delivered with a linear density $\pm 5\%$ of the nominal load bearing linear density given in the below table.
- Load bearing linear density is tabulated below.
- The line design break force values are given for the spliced ropes.

Diameter [mm]	12-strand braided		Double Braided	
	Load bearing linear density [ktex]	Line design break force [KN]	Load bearing linear density [ktex]	Line design break force [KN]
24	331	470	340	362
28	445	615	460	494
32	575	780	600	662
36	722	965	770	821
40	884	1155	940	1030
44	1062	1375	1150	1240
48	1255	1600	1360	1450
56	1688	2095	1850	1970
60	1928	2370	2120	2270
64	2183	2655	2400	2290
68	2453	2955	2720	2930
72	2738	3270	3070	3270
76	3038	3600	3400	3620

The data in the table is provided by manufacturer.

Application/Limitation

The OCIMF MEG4 approval range covers ropes with diameter from 24 mm to and including 76 mm.

Type Approval documentation

Tests carried out

Type Testing carried out in accordance with Type Approval documentation, and according to:

- OCIMF's Mooring Equipment Guidelines (MEG4) [requirements to testing].
- DNV-CP-0100.

The fibre ropes are manufactured in accordance with:

- ISO 10325:2018.

Marking of product

Product shall be marked with *manufacturer's name*: **Yangzhou Xinglun Rope Cable Co., Ltd., China**, *type designation*, *diameter*, *product code* and *strength*.

The marking is to be carried out in such a way that it is visible, legible and indelible. The marking of product is to enable traceability to the DNV Type Approval Certificate.

Periodical assessment

The scope of the Periodical Assessment is 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.



Job ID: **262.1-038317-1**
Certificate no.: **TAK00002GA**

Periodical assessments (for Certificate Retention / Certificate Renewal) shall be performed according to DNV-CP-0338.

This certificate is only valid if required Periodical assessments are carried out with satisfactory results. To check the validity of this certificate, please look it up in <https://approvafinder.dnv.com>

END OF CERTIFICATE