



TYPE APPROVAL CERTIFICATE

Certificate No:
TAE00002AR
Revision No:
1

This is to certify:

That the Electric Power Cable

with type designation(s)
XTREM H07RN-F Series

Issued to

TOP CABLE, S.A.
Rubí, Barcelona, Spain

is found to comply with

DNV rules for classification – Ships, offshore units, and high speed and light craft

Application :

Low voltage power cable.

Products approved by this certificate are accepted for installation on all vessels classed by DNV.

Rated voltage (kV) 0,6/1

Temp. class (°C) 90

Issued at **Høvik** on **2022-12-14**

for **DNV**

This Certificate is valid until **2027-10-09**.

DNV local unit: **Area NB/CMC Iberia**

Approval Engineer: **Ivar Bull**

Frederik Tore Elter
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

Type: XTREM Series 0,6/1kV

Construction:

Conductors:

Core insulation:

Outer sheath:

Annealed, stranded copper class 5

EPR type according to IEC 60092-360

SE1 type according to IEC 60092-360

Number of cores	Cross-section
1	1,5 2,5 4 6 10 16 25 35 50 70 95 120 150 185 240 300 400 500
2 5	1 1,5 2,5 4 6 10 16 25 35 50 70 95
3	1 1,5 2,5 4 6 10 16 25 35 50 70 95 120
4	1 1,5 2,5 4 6 10 16 25 35 50 70 95 120 150
7 12	1,5 2,5 4
16 24	1,5 2,5

Application/ Limitation

General power and lighting. Flame retardant.

The requirements of SOLAS Amendments Chapter II-1, Part D, Reg. 45, 5.2 (provision to be taken to limit Fire Propagation along Bundles of Cables or Wires) are fulfilled without any additional measures.

Type Approval documentation

Data sheet: H07RN-F MARINE 0,6/1 kV dated 04.03.2014

Test reports: Top Cable dated April 2014

Tests carried out

Type tests according to IEC 60092-350, IEC 60332-1.

Marking of product

TOP CABLE 5 - XTREM H07RN-F - IEC 60092-353 - size - 0,6/1 kV

TOP CABLE 5 = Akson factory.

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