Certificate No:
TAE00004DC

TYPE APPROVAL CERTIFICATE

This is to certify:

That the Termination and Joint for Cable

with type designation(s)
High voltage termination for three core cables with extruded solid insulation: WRS-8,7/15

Issued to
Union Polymer Material Co. Ltd.
Dalian, **China**

is found to comply with
DNV rules for classification – Ships, offshore units, and high speed and light craft

Application :

For installations inside switchboards / enclosures onboard ships and offshore units. 8,7/15 (17,5) kV.

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

Issued at **Hamburg** on **2021-10-18**
This Certificate is valid until **2026-10-17**.
DNV local station: **Dalian NB & 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

High voltage termination for three core cables with extruded solid insulation: Max. voltage according to table below. Each kit consists all parts needed for a complete termination.

Three core cables with extruded solid insulation indoor		
Kit	Voltage class	Cross section
	(kV)	(mm²)
WRS-8,7/15	8,7/15 (17,5)	25 - 50
WRS-8,7/15	8,7/15 (17,5)	70 - 120
WRS-8,7/15	8,7/15 (17,5)	150 - 240
WRS-8,7/15	8,7/15 (17,5)	300 - 400

Application/Limitation

Installation has to be done in accordance with the installation instructions.

Type Approval documentation

Tests carried out

Tested according to IEC 60502-4:2012-10

Marking of product

Union Polymer Material Co. Ltd. - Manufacturer's kit number - Cross sectional area (range) - voltage class

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