DNV·GL

Certificate No:
TAE00001ZN

TYPE APPROVAL CERTIFICATE

This is to certify:

That the Low Voltage Cable

with type designation(s)
RFOU (i) S1/S5 & (c) S2/S6 250 V

Issued to
Unika Universal Kablo San. ve Tic. A.S.
ISTANBUL, Turkey

is found to comply with
DNV GL rules for classification – Ships, offshore units, and high speed and light craft
DNV GL class programme DNVGL-CP-0399 – Type approval – Electric cables

Application :

Product(s) approved by this certificate is/are accepted for installation on all vessels classed by DNV GL.
Voltage class (V) 250
Temp. class (°C) 90

Issued at **Høvik** on **2017-06-30**
This Certificate is valid until **2022-06-29**.
DNV GL local station: **Istanbul**

Approval Engineer: **Georgy Abramenko**

for **DNV GL**

Andreas Kristoffersen
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.

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Job Id: **262.1-005125-21**
Certificate No: **TAE00001ZN**

Product description

Type: RFOU (i) S1/S5 & (c) S2/S6 250 V

Construction:
Conductors: Tinned, stranded copper according to IEC 60228 class 2 or class 5
Core insulation: EPR
Screen: Copper or Aluminium backed polyester tape w/tinned copper drain wire
Bedding: Flame retardant halogen-free compound
Metal covering: Tinned, Copper wire braid
Outer sheath: SHF Mud

RFOU (i) S1/S5 & (c) S2/S6 250 V NEK 606 variants:

Number of cores	Number of elements	Cross section
1 2 3 4 7 8 9 10	2 3	0,75 1,5 2,5
12 14 16 19 24	2 3	0,75 1,5

RFOU 1mm2 variants:

Number of cores	Number of elements	Cross section
1 2 3 4 7 8 9 10 12 14 16 19 24	2 3	1

Application/Limitation

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

Type Examination documentation

Tests carried out

Type tests according to IEC 60092-350, IEC 60332-3-22, IEC 60754-1/2, IEC 61034-2 and NEK606

Marking of product

UNIKA – RFOU(i) S1/S5 - size – 0,6/1 kV or UNIKA – RFOU(c) S2/S6 - size – 0,6/1 kV – IEC 60332-3-22 - Lot No. or
UNIKA – RFOU(i) - size – 0,6/1 kV – IEC 60332-3-22 - Lot No.

Certificate Retention Survey

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