



Confirmation of Product Type Approval

Company Name: UNIKA UNIVERSAL KABLO SAN. VE TIC A.S.

Address: VELIKOY ORGANIZE SANAYI BOLGESI SANAYI MAH. 3.CADDE NO.4 CERKEZKOY
TEKIRDAG 59550 Turkey

Product: Cable, Electric

Model(s): P101 RFOU (RFOU Type P1), P101 RFOU-M (RFOU Type P1/P8), P105 BFOU (BFOU Type P5), P105 BFOU-M (BFOU Type P5/P12), P110 BU and BU-M (BU Type P17), P111 RU and RU-M (RU Type P18), RFCU, BFCU, RFOU VFD

Endorsements:

Certificate Type	Certificate Number	Issue Date	Expiry Date
Product Design Assessment (PDA)	25-0204915-1-2-PDA	10-SEP-2026	05-MAR-2030
Manufacturing Assessment (MA)	23-6060224	06-OCT-2023	05-OCT-2028
Product Quality Assurance (PQA)	NA	NA	NA

Tier

3 - Type Approved, unit certification not required

Intended Service

Power Cables for marine and offshore applications.

Description

1. P101 RFOU-M (RFOU Type P1/P8) 0. 6/1 kV halogen free, flame retardant, low smoke, mud resistant cables (conductor: tinned stranded copper class 2, insulation: EPR, inner covering: halogen-free compound, armor: tinned copper wire braid, outer jacket: halogen-free, mud resistant thermoset compound (SHF2 or SHF MUD))

2. P105 BFOU-M (BFOU Type P5/P12) 0. 6/1 kV, fire resistant, halogen free, flame retardant, low smoke, mud resistant cables (conductor: tinned stranded copper class 2, mica tape: helically applied fire resistant tape, insulation: EPR, inner covering: halogen-free compound, armor: tinned copper wire braid, outer jacket: halogen-free, mud resistant thermoset compound (SHF2 or SHF MUD))

3. P110 BU and BU-M (BU Type P17) 0. 6/1 kV fire resistant, halogen free, flame retardant, low smoke cables (conductor: tinned stranded copper class 2, mica tape: helically applied fire resistant tape, insulation: EPR, outer jacket: halogen-free thermoset compound SHF2)

4. P111 RU and RU-M (RU Type P18) 0. 6/1 kV halogen free, flame retardant, low smoke cables (conductor: tinned stranded copper class 2, insulation: EPR, outer jacket: halogen-free thermoset compound SHF2)

5. RFCU 0. 6/1 kV halogen free, flame retardant, low smoke, mud resistant (optional) cables (conductor: plain or tinned, stranded copper class 2 or 5, insulation: HEPR, inner covering: halogen-free flame retardant compound, tape: polyester tape, armor: galvanized steel wire braid, tape: polyester tape, outer jacket: mud resistant (optional), thermoset compound (SHF MUD or SHF2))

6. BFCU 0. 6/1 kV, fire resistant, halogen free, flame retardant, low smoke, mud resistant (optional) cables (conductor: plain or tinned, stranded copper class 2 or 5, mica tape: helically applied fire resistant mica tape, insulation: HEPR, inner covering: halogen-free flame retardant compound, tape: polyester tape, armor: galvanized steel wire braid, tape: polyester tape, outer jacket: mud resistant (optional), thermoset compound (SHF MUD or SHF2))

7. RFOU VFD 0. 6/1 kV halogen free, flame retardant, low smoke, VFD type, mud resistant (optional) cables, designed for variable frequency drives (conductor: plain or tinned, stranded copper class 2 or 5, Insulation: HEPR, filler: halogen free flame retardant compound, tape: polyester tape, tape: metal coated polyester tape, shield: tinned or bare copper wire braid, tape: polyester tape, inner sheath: halogen free EPR extruded compound, tape: polyester tape, armor: tinned or bare copper wire braid, tape: polyester tape, outer jacket: mud resistant (optional), thermoset compound SHF MUD or SHF2, earthing conductors: annealed bare or tinned stranded copper class 2 or 5, insulation: HEPR).

Please refer to the attachment to this Certificate for the sizes of each cable model.

Ratings

Rated Voltage: 0.6/1 kV

Maximum rated conductor temperature: 90 deg C

Service Restrictions

1. Unit Certification is not required for this product. If the manufacturer or purchaser request an ABS Certificate for compliance with a specification or standard, the specification or standard, including inspection standards and tolerances, must be clearly defined.

2. Unit Certification is required where the cables are used for propulsion systems. All propulsion cables, other than internal wiring in control gears and switchboards, are to be subjected to dielectric and insulation tests in the presence of the Surveyor (See 4-8-5/5.17.11 of Marine Vessels Rules.)

3. Maximum Current Carrying Capacity and Maximum Conductor Temperature are to be in accordance with 4-8-3/Table 6 of the Marine Vessels Rules.

Comments

1. The Manufacturer has provided a declaration about the control of, or the lack of Asbestos in this product.

2. UNIKA is the test lab location for all the manufacturer's test reports listed in the "Notes, Drawings and Documentation" section.

Notes, Drawings and Documentation

Drawing No. PDA07, TA - Type approval - Order A1308917 - RFOU Medium Voltage Cables-Stamped, Unika, Issued on 31/05/2023 Revision: 0, Pages: 82

Drawing No. 4489511, 4489511 P111 RU Rev.0 30.11.2022 DS (25-0204915-1-1 PDA), Revision: 0, Pages: 2

Drawing No. 004, NEK 606 2022 Offshore Power & Signal Cables TDS, Revision: 0, Pages: 24

Drawing No. 4489411, 4489411 P110 BU Rev.0 29.11.2022 DS (25-0204915-1-1 PDA), Revision: 0, Pages: 2

Drawing No. 003, NEK 606 - IEC Code Designation Document, Revision: 0, Pages: 1

Drawing No. PDA04, Standard Comprasion for PDA Certificates, Revision: 0, Pages: 1

Drawing No. 4489312, 4489312 P105 BFOU Rev.0 28.11.2022 DS (25-0204915-1-1 PDA), Revision: 0, Pages: 2

Drawing No. PDA03, NEK 606 - IEC CODE DOCUMENT FOR 25-0204915-1-1-PDA, Revision: 0, Pages: 1

Drawing No. 4489111, 4489111 P101 RFOU Rev.0 26.11.2022 DS (25-0204915-1-1 PDA), Revision: 0, Pages: 2

Drawing No. 007, 25-0204915-1-1 PDA (RFOU Type P1, RFOU Type P1-P8, BFOU Type P5, BFOU Type P5-P12, BU Type P17, RU Type P18, RFCU,BFCU, RFOU VFD), Revision: 1, Pages: 11

Term of Validity

This Product Design Assessment (PDA) Certificate remains valid until 05/Mar/2030 or until the Rules and/or Standards used in the assessment are revised or until there is a design modification warranting design reassessment (whichever occurs first).

Acceptance of product is limited to the "Intended Service" details prescribed in the certificate and as per applicable Rules and Standards.

This Certificate is valid for installation of the listed product on ABS units which exist or are under contract for construction on or previous to the effective date of the ABS Rules and standards applied at the time of PDA issuance. Use of the Product for non-ABS units is subject to agreement between the manufacturer and intended client.

ABS Rules

2026 Rules for Conditions of Classification: 1A-1-4/7.7, 1A-1-A3, 1A-1-A4, which covers the following:

2026 Rules for Building and Classing Marine Vessels 4-8-3/9.1, 4-8-3/9.4, 4-8-3/9.5, 4-8-3/9.9, 4-8-3/9.17,

2026 Rules for Conditions of Classification - Offshore Rules: 1B-1-4/9.7, 1B-1-A2, 1B-1-A3 which covers the following:

2026 Rules for Building and Classing Offshore Rules: 4-3-4/7.1.1, 4-3-4/7.1.2, 4-3-4/7.1.3, 4-3-4/7.1.4.

International Standards

IEC 60092-353 (2024)

IEC 60092-350 (2020)

IEC 60092-360 (2021)

IEC 60332-3-22 (2018)

IEC 60331-1/2 (2018)

NEK 606 (2022) (applicable to cable models: P101 RFOU (RFOU Type P1), P101 RFOU-M (RFOU Type P1/P8), P105 BFOU (BFOU Type P5), P105 BFOU-M (BFOU Type P5/P12), P110 BU and BU-M (BU Type P17), P111 RU and RU-M (RU Type P18)

Abnormal Low Temperature Cables only: CSA C22.2 No. 0.3-09 (5.11 & 5.12, -40 deg C Cold Bend / -35 deg C Cold Impact)

EU-MED Standards

NA

National Standards

NA

Government Standards

NA

Other Standards

NA



ABS Programs
American Bureau of Shipping
Print Date and Time: 16-Sep-2026 9:40

ABS has used due diligence in the preparation of this certificate, and it represents the information on the product in the ABS Records as of the date and time the certificate is printed.

If the Rules and/or standards used in the PDA evaluation are revised or if there is a design modification (whichever occurs first), a PDA revalidation may be necessary.

The continued validity of the MA is dependent on completion of satisfactory audits as required by the ABS Rules. The validity of both PDA and MA entitles the product to receive a **Confirmation of Product Type Approval**.

Acceptance of product is limited to the "Intended Service" details prescribed in the certificate and as per applicable Rules and Standards.

This Certificate is valid for installation of the listed product on ABS units which exist or are under contract for construction on or prior to the effective date of the ABS Rules and standards applied at the time of PDA issuance. ABS makes no representations regarding Type Approval of the Product for use on vessels, MODUs or facilities built after the date of the ABS Rules used for this evaluation.

Type Approval requires Drawing Assessment, Prototype Testing and assessment of the manufacturer's quality assurance and quality control arrangements. The manufacturer is responsible to maintain compliance with all specifications applicable to the product design assessment. Unless specifically indicated in the description of the product, certification under type approval does not waive requirements for witnessed inspection or additional survey for product use on a vessel, MODU or facility intended to be ABS classed or that is presently in class with ABS.

Due to wide variety of specifications used in the products ABS has evaluated for Type Approval, it is part of our contract that; whether the standard is an ABS Rule or a non-ABS Rule, the Client has full responsibility for continued compliance with the standard.

Questions regarding the validity of ABS Rules or the need for supplemental testing or inspection of such products should, in all cases, be addressed to ABS.