



Confirmation of Product Type Approval

Company Name: UNTEL KABLOLARI SANAYI VE TICARET ANONIM SIRKETI

Address: MAKINE OSB, 6.CAD. NO: 4 41455DILOVASI-GEBZE Turkey

Product: Cable, Electric

Model(s): MGG, MGCG, MGH, MGCH, MGH-FFR, MGCH-FFR, MGCH-EMC, M2XY-FR, M2XCY-FR, M2X, M2XH, M2XCH

Certificate Type	Certificate Number	Issue Date	Expiry Date
Product Design Assessment (PDA)	20-PR1937613-PDA	20-JAN-2020	15-JAN-2025
Manufacturing Assessment (MA)	17-IS3335954	05-JUN-2017	04-JUN-2022
Product Quality Assurance (PQA)	NA	NA	NA

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Intended Service

Power Cables, Marine and Offshore.

Description

"MGG" 0.6/1 kV unarmored power cables

"MGCG" 0.6/1 kV armored power cables

"MGH" 0.6/1 kV halogen free unarmored power cables

"MGCH" 0.6/1 kV halogen free armored power cables

"MGH-FFR" 0.6/1 kV halogen free unarmored fire resistant power cables

"MGCH-FFR" 0.6/1 kV halogen free armored fire resistant power cables

"MGCH-EMC" 0.6/1 kV halogen free armored EMC protected power cables

"M2XY-FR" 0.6/1 kV unarmored power cables

"M2XCY-FR" 0.6/1 kV armored power cables

"M2X" 0.6/1 kV halogen free unarmored, unsheathed power internal cables

"M2XH" 0.6/1 kV halogen free unarmored power cables

"M2XCH" 0.6/1 kV halogen free armored power cables

Ratings

0.6/1 kV Power Cables

Refer to the attachment for additional ratings.

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. The cables are not intended to be used as propulsion cables.

Comments

MGG 0.6/1 kV unarmored power cables (copper conductors class 2 or class 5, HEPR insulation, rubber bedding, outer sheath SE);

MGCG 0.6/1 kV armored power cables (copper conductors class 2 or class 5, HEPR insulation, rubber bedding, electrolytic plain copper braided screen, outer sheath SE);

MGH 0.6/1 kV halogen free unarmored power cables (copper conductors class 2 or class 5, HF-HEPR insulation, halogen free bedding compound, outer sheath SHF1);

MGCH 0.6/1 kV halogen free armored power cables (copper conductors class 2 or class 5, HF-HEPR insulation, halogen free bedding compound, electrolytic plain copper braided screen, outer sheath SHF1);

MGH-FFR 0.6/1 kV halogen free unarmored fire resistant power cables (copper conductors class 2 or class 5, mica tape, HF-HEPR insulation, halogen free bedding compound, outer sheath SHF1);

MGCH-FFR 0.6/1 kV halogen free armored fire resistant power cables (copper conductors class 2 or class 5, mica tape, HF-HEPR insulation, halogen free bedding compound, electrolytic plain copper braided screen, outer sheath SHF1);

MGCH-EMC 0.6/1 kV halogen free armored EMC protected power cables (copper conductors class 2 or class 5, HF-HEPR insulation, halogen free bedding compound, electrolytic plain copper braided screen, 100% wrapped electrolytic copper tape, outer sheath SHF1);

M2XY-FR 0.6/1 kV unarmored power cables (copper conductors class 2 or class 5, XLPE insulation, bedding compound (if any), outer sheath ST2);

M2XCY-FR 0.6/1 kV armored power cables (copper conductors class 2 or class 5, XLPE insulation, bedding compound (if any), electrolytic plain copper braided screen, outer sheath ST2);

M2X 0.6/1 kV halogen free unarmored, unsheathed power internal cables (copper conductors class 2 or class 5, HF90 insulation);

M2XH 0.6/1 kV halogen free unarmored power cables (copper conductors class 2 or class 5, HF-XLPE insulation, halogen free bedding compound (if any), outer sheath SHF1);

M2XCH 0.6/1 kV halogen free armored power cables (copper conductors class 2 or class 5, HF-XLPE insulation, halogen free bedding compound (if any), electrolytic plain copper braided screen, outer sheath SHF1).

The Manufacturer has provided a declaration about the absence of Asbestos in his products.

Notes, Drawings and Documentation

1. Test Report No. P19026, Rev. 3, dated 30/12/2019 for the cable model "MGG 0.6/1kV"
2. Test Report No. P19025, Rev. 3, dated 30/12/2019 for the cable model "MGCG 0.6/1kV"

3. Test Report No. P19021, Rev. 3, dated 30/12/2019 for the cable model "MGH 0.6/1kV"
4. Test Report No. P19019, Rev. 3, dated 30/12/2019 for the cable model "MGCH 0.6/1kV"
5. Test Report No. P19020, Rev. 3, dated 30/12/2019 for the cable model "MGH-FFR 0.6/1kV"
6. Test Report No. P19018, Rev. 3, dated 30/12/2019 for the cable model "MGCH-FFR 0.6/1kV"
7. Test Report No. P19017, Rev. 3, dated 30/12/2019 for the cable model "MGCH-EMC 0.6/1kV"
8. Test Report No. P19024, Rev. 3, dated 30/12/2019 for the cable model "M2XY-FR 0.6/1kV"
9. Test Report No. P19023, Rev. 3, dated 30/12/2019 for the cable model "M2XCY-FR 0.6/1kV"
10. Test Report No. P19027, Rev. 3, dated 30/12/2019 for the cable model "M2X 0.6/1kV"
11. Test Report No. P19022, Rev. 3, dated 30/12/2019 for the cable model "M2XH 0.6/1kV"
12. Test Report No. P19016, Rev. 3, dated 30/12/2019 for the cable model "M2XCH 0.6/1kV"

All test conducted by Untel Kablolari

Term of Validity

This Product Design Assessment (PDA) Certificate remains valid until 15/Jan/2025 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

Part 1 – January 2020 Edition of ABS Rules for Conditions of Classification 1-1-4/7.7, 1-1-A3 and 1-1-A4, which cover the following:

- January 2020 Edition of ABS Rules for Building and Classing Marine Vessels 4-8-3/9.1, 4-8-3/9.3, 4-8-3/9.4, 4-8-3/9.5, 4-8-3/9.7, 4-8-3/9.9, 4-8-3/9.17

Part 1 – January 2020 Edition of ABS Rules for Conditions of Classification – Offshore Units and Structures 1-1-4/9.7, 1-1-A2 and 1-1-A3, which cover the following:

- January 2020 Edition of ABS Rules for Building and Classing Mobile Offshore Units 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(2016-09) and the applicable IEC standards referred to therein (IEC 60228(2004-11), IEC 60092-360(2014-04), IEC 60092-350(2014-08), IEC 60332-3-22(2018-07), IEC 60331-1(2018-03) & 2(2018-03), IEC 60811)

EU-MED Standards

N/A

National Standards

N/A

Government Standards

N/A

Other Standards

N/A



A handwritten signature in black ink, appearing to read "James J. White".

Corporate ABS Programs
American Bureau of Shipping
Print Date and Time: 12-Feb-2020 7:10

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.