



## Confirmation of Product Type Approval

**Company Name:** UNTEL KABLOLARI SANAYI VE TICARET ANONIM SIRKETI

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

**Product:** Cable, Electric

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

**Endorsements:**

| <b>Certificate Type</b>         | <b>Certificate Number</b> | <b>Issue Date</b> | <b>Expiry Date</b> |
|---------------------------------|---------------------------|-------------------|--------------------|
| Product Design Assessment (PDA) | 24-0046569-PDA            | 25-JUL-2024       | 24-JUL-2029        |
| Manufacturing Assessment (MA)   | 22-5264918                | 09-JUN-2022       | 08-JUN-2027        |
| Product Quality Assurance (PQA) | NA                        | NA                | NA                 |

### **Tier**

3 - Type Approved, unit certification not required

### **Intended Service**

Power Cables, Marine and Offshore.

### **Description**

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).

M2XCH (EMC) 0.6/1kV halogen free unarmored power cables (Electrolytic, stranded, annealed copper wire IEC 60228 Class 5 (Class 2 and / or tinned on request)), Cross linked polyethylene compound (XLPE), Halogen-free bedding compound (if necessary), Electrolytic copper braided screen, Halogen-free, flame retardant, polyolefin based compound (SHF 1).

## 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

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"
13. Test Report No. KK-F-039 (3x1,5), Rev. 2, dated 11/06/2024 for the cable model "M2XCH EMC 0.6/1kV"
14. Test Report No. KK-F-039 (3x120), Rev. 2, dated 11/06/2024 for the cable model "M2XCH EMC 0.6/1kV"
15. Test Report No. KK-F-039 (3x16), Rev. 2, dated 11/06/2024 for the cable model "M2XCH EMC 0.6/1kV"
16. Test Report No. KK-F-039 (19x2.5), Rev. 2, dated 4/06/2024 for the cable model "M2XCH 0.6/1kV"
17. Test Report No. KK-F-039 (12x2.5), Rev. 2, dated 4/06/2024 for the cable model "M2XCH 0.6/1kV"
18. Drawing No. M2XCH EMC, Rev. -, Datasheet

All tests conducted by Untel Kablolari

### Term of Validity

This Product Design Assessment (PDA) Certificate remains valid until 24/Jul/2029 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 2024 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 2024 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 2024 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 2024 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) and the applicable IEC standards referred to therein (IEC 60228(2023), IEC 60092-360(2021), IEC 60092-350(2020), IEC 60332-3-22(2018-07), IEC 60331-1(2018-03) & 2(2018-03), IEC 60811(2012))

### EU-MED Standards

N/A

### National Standards

N/A

### Government Standards

N/A

### Other Standards

N/A



Corporate ABS Programs  
American Bureau of Shipping  
Print Date and Time: 12-Aug-2024 12:20

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.