CERTIFICATE NUMBER	24-0046569-1-PDA
EFFECTIVE DATE	16-Sep-2026
EXPIRY DATE	24-Jul-2029
ABS TECHNICAL OFFICE	Istanbul Engineering Department

CERTIFICATE OF

Product Design Assessment

This is to certify that a representative of this Bureau did, at the request of

UNTEL KABLOLARI SANAYI VE TICARET ANONIM SIRKETI

located at

MAKINE OSB, 6.CAD. NO: 4 41455, DILOVASI-GEBZE, , KOCAELI, Türkiye

assess design plans and data for the below listed product. This assessment is a representation by the Bureau as to the degree of compliance the design exhibits with applicable sections of the Rules. This assessment does not waive unit certification or classification procedures required by ABS Rules for products to be installed in ABS classed vessels or facilities. This certificate, by itself, does not reflect that the product is Type Approved. The scope and limitations of this assessment are detailed on the pages attached to this certificate.

Product:	**Cable, Electric**
Model:	**MGG, MGCG, MGH, MGCH, MGH-FFR, MGCH-FFR, MGCH-EMC, M2XY-FR, M2XCY-FR, M2X, M2XH, M2XCH, M2XCH (EMC)**
Endorsements:	
Tier:	**3 - Type Approved, unit certification not required**

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.

American Bureau Of Shipping

Amit Gupta,Engineer/Consultant

NOTE: This certificate evidences compliance with one or more of the Rules, Guides, standards or other criteria of ABS or a statutory, industrial or manufacturer's standards. It is issued solely for the use of ABS, its committees, its clients or other authorized entities. Any significant changes to the aforementioned product without approval from ABS will result in this certificate becoming null and void. This certificate is governed by ABS Rules 1-1-A3/5.9 Terms and Conditions of the Request for Product Type Approval and Agreement (2010)

Sensitivity: Internal & Restricted

UNTEL KABLOLARI SANAYI VE TICARET ANONIM SIRKETI
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Tier: 3 - Type Approved, unit certification not required

Product: **Cable, Electric**
Model: **MGG, MGCG, MGH, MGCH, MGH-FFR, MGCH-FFR, MGCH-EMC, M2XY-FR, M2XCY-FR, M2X, M2XH, M2XCH, M2XCH (EMC)**
Endorsements:

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 1.8/ 3 kV halogen free armoured 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 SHF2).
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).

Rating:
0.6/1 kV and 1.8/ 3 kV Power Cables

Refer to the attachment for additional ratings.

Service Restriction:
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.

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Tier: 3 - Type Approved, unit certification not required

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/Drawing/Documentation:
Drawing No. PDA Application - Revision 24-0046569-PDA, PDA Application - Revision 24-0046569-PDA, Revision: -, Pages: 4
Drawing No. 202634258-2, M2XH flex [FI] 4x120 (Siyah) - Test Report, ÜNTEL LABORATUVARI Issued on: 12.08.2026 Revision: -, Pages: 5
Drawing No. 202634258-1, M2XH flex [FI] 3x185 (Siyah) - Test Report, ÜNTEL LABORATUVARI Issued on: 12.08.2026 Revision: -, Pages: 5
Drawing No. 202634258-3, M2XCH flex 1x95 (Siyah) 1;8-3kV, ÜNTEL LABORATUVARI Issued on: 12.08.2026 Revision: -, Pages: 5

Terms of Validity:
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STANDARDS

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, 4-8-5/5.17.11.

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

National:
N/A

International:
IEC 60092-353(2024),
IEC 60228 (2023),
IEC 60092-360 (2021),
IEC 60092-350 (2020),
IEC 60332-3-22 (2018-07),
IEC 60331-1 (2018-03) & IEC 60331-2(2018-03),
IEC 60811 (2012).

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Government:
N/A

EUMED:
N/A

OTHERS:
N/A