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): FMGCG, FMGCH, FMGCCH, FMGCH-FFR, FM2XCY-FR, FM2XCH

Certificate Type	Certificate Number	Issue Date	Expiry Date
Product Design Assessment (PDA)	20-PR1947152-PDA	12-FEB-2020	11-FEB-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
Control and Instrumentation Cables, Marine and Offshore. The cable is not to be used as a propulsion cable.

Description
FMGCG 60/250V screened control and instrumentation cables (copper conductors class 2 or class 5, HEPR insulation, cores laid up in pairs-pairs laid up concentrically, foil over cable core, copper braided screen, foil above braided screen, outer sheath SE);

FMGCH 60/250V halogen free screened control and instrumentation cables (copper conductors class 2 or class 5, HEPR insulation, cores laid up in pairs-pairs laid up concentrically, foil over cable core, electrolytic plain copper braided screen, outer sheath SHF1);

FMGCCH 60/250V halogen free individually and collectively screened control and instrumentation cables (copper conductors class 2 or class 5, HEPR insulation, cores laid up in pairs-pairs laid up concentrically, aluminum foil and drain wire over each pair, foil below overall screen, polyester foil over pairs or halogen free bedding compound (optional), electrolytic plain copper braided screen, polyester foil above braided screen, outer sheath SHF1);

FMGCH-FFR 60/250V halogen free, fire resistant, screened control and instrumentation cables (copper conductors class 2 or class 5, Mica tape, HEPR insulation, cores laid up in pairs-pairs laid up concentrically, foil over cable core, electrolytic plain copper braided screen, outer sheath SHF1);

FM2XCY-FR 60/250V screened control and instrumentation cables (copper conductors class 2 or class 5, XLPE insulation, cores laid up in pairs-pairs laid up concentrically, foil over cable core, electrolytic plain copper braided screen, outer sheath ST2);

FM2XCH 60/250V halogen free screened control and instrumentation cables (copper conductors class 2 or class 5, XLPE insulation, cores laid up in pairs-pairs laid up concentrically, foil over cable core, electrolytic plain copper braided screen, outer sheath SHF1).

See attached document for additional information.

Ratings
Rated Voltage: 60/250 V

Maximum rated conductor temperature: 90 deg. C

Service Restrictions
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.

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

Notes, Drawings and Documentation
1. Test Procedure & Test Report No. P20001 dated 3 February 2020 for the cable model "FMGCG"

2. Test Procedure & Test Report No. P20002 dated 3 February 2020 for the cable model "FMGCH-FFR"

3. Test Procedure & Test Report No. P20003 dated 3 February 2020 for the cable model "FM2XCY-FR"

4. Test Procedure & Test Report No. P20004 dated 3 February 2020 for the cable model "FMGCH"

5. Test Procedure & Test Report No. P20005 dated 3 February 2020 for the cable model "FMGCCH"

6. Test Procedure & Test Report No. P20006 dated 3 February 2020 for the cable model "FM2XCH"

7. Document titled "Description of Cables' Construction"

Term of Validity
This Product Design Assessment (PDA) Certificate remains valid until 11/Feb/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, 4-8-3/9.4, 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 60092-376 (2017-05) and the applicable IEC standards referred to therein (IEC 60092-350 (2014-08), IEC 60092-360 (2014-04), IEC 60332-3-22 (2018-07), IEC 60331-1/2 (2018-03))

EU-MED Standards
NA

National Standards
NA

Government Standards
NA

Other Standards
NA

Corporate ABS Programs
American Bureau of Shipping
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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.