



## Confirmation of Product Type Approval

**Company Name:** ERISIM KABLO SAN VE TIC LTD STI

**Address:** MEHMET AKIF ERSOY MAH. RESAT NURI GUNTEKIN CAD NO 45C ARNAVUTKOY 34283  
ISTANBUL Türkiye

**Product:** Cable

**Model(s):** MX, MX-FR, MXH, MXH-FR, MXCH, MXCH-FR, F-MXCH, F-MXCH-FR, F-MX(st)H-TP,  
F-MX(st)H-TP-FR.

**Endorsements:**

| Certificate Type                | Certificate Number | Issue Date  | Expiry Date |
|---------------------------------|--------------------|-------------|-------------|
| Product Design Assessment (PDA) | 24-0105471-PDA     | 23-OCT-2024 | 22-OCT-2029 |
| Manufacturing Assessment (MA)   | 25-6786349         | 06-JAN-2025 | 05-JAN-2030 |
| Product Quality Assurance (PQA) | NA                 | NA          | NA          |

### Tier

3 - Type Approved, unit certification not required

### Intended Service

Power, Lighting, Control & Instrument for Vessels and Offshore Units.

### Description

a) 0.6/1kV Low Voltage Cables are Flame Retardant, Fire Resistant, Halogen free & Smoke Free Power and Lighting Cables: Class (2 or 5) annealed or tinned stranded copper Conductor, Crosslinked Polyethylene (xlpe), (MX, MX-FR Type Only Cross-linked Halogen Free) insulation, Inner Covering is of Pes Tape or HFFR Compound, Screened (Tinned or annealed copper wire braid,(MXCH,MXCH-FR Type only) and Sheath (HFFR Compound SHF1 (H Type).

b) 150/250V Telecommunication and Signal cables are Flame Retardant or Fire Resistant, Halogen free & Smoke Free Cables , Class (2 or 5) annealed or tinned stranded copper Conductor , Fire Resistant Foil (FR Type) , Insulation (Cross-Linked Polyethylene (xlpe),Wrapping (Pes Tape) , Screened (Tinned copper drain wire+Al-pes tape (F-MX(st)H-TP,/FR Type only) & Tinned or annealed copper wire braid,(F-MXCH,/FR Type only) and Sheath (HFFR Compound SHF1 (H Type).

### Ratings

1. Low voltage cables: -

Operational Voltage - 0.6/1 KV.

Temperature Range - -40°C~ +90°C.

Cross Section – 1.00 – 300.00 mm<sup>2</sup>.

**Cables Type: -**

MX - Flame Retardant, Halogen free, No. of Cores (1), Conductor Size (1 to 300 mm<sup>2</sup>).

MX-FR - Flame Retardant, Fire Resistant, Halogen free, No. of Cores (1), Conductor Size (1 to 300 mm<sup>2</sup>).

MXH - Flame Retardant, Halogen Free No. of Cores (1 to 24), Conductor Size (1 to 300 mm<sup>2</sup>).

MXH-FR - Flame Retardant, Fire Resistance, Halogen Free No. of Cores (1 to 24), Conductor Size (1 to 300 mm<sup>2</sup>).

MXCH – Flame Retardant, Halogen Free No. of Cores (1 to 24), Conductor Size (1 to 300 mm<sup>2</sup>).

MXCH-FR - Flame Retardant, Fire Resistance, Halogen Free No. of Cores (1 to 24), Conductor Size (1 to 300 mm<sup>2</sup>).

**2. Telecommunication and Signal cables: -**

Operational Voltage (150/250V) 300V.

Temperature Range - -40°C ~ +90°C.

**Cable Types: -**

F-MXCH - Flame Retardant, No. of Cores (1 to 24P), Conductor Size (0.5 to 2.50 mm<sup>2</sup>).

F-MXCH-FR - Flame Retardant, Fire resistant, No. of Cores (1 to 24P), Conductor Size (0.5 to 2.50 mm<sup>2</sup>).

F-MX(st)H-TP - Flame Retardant, No. of Cores (1P to 24P), Conductor Size (0.5 to 2.50 mm<sup>2</sup>).

F-MX(st)H-TP-FR - Flame Retardant, Fire Resistant, No. of Cores (1P to 24P), Conductor Size (0.5 to 2.50 mm<sup>2</sup>).

**Service Restrictions**

1. Unit Certification is required for the cables 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(e) of the Marine Vessels Rules).

2. For uses other than propulsion, Unit Certification is not required for this product. If the manufacturer or purchaser requests an ABS Certificate for compliance with a specification or standard, the specification or standard, including inspection standards and tolerances, must be clearly defined.

**Comments**

1. Application and use are to be in accordance with the manufacturer's instructions.

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

3. Cables shall be provided with a continuous indication of cable marking in accordance with IEC Publications 60092-350, 60092-353, 60092-376.

4. Maximum rated conductor temperature of XLPE insulation is 90°C according to IEC 60092-360.

**Notes, Drawings and Documentation**

Drawing No. MX-FR, MX-FR, Revision: 0, Pages:

Drawing No. EMAIL request, with fee acceptance\_040924, Revision: -, Pages:

Drawing No. MXCH-FR, MXCH-FR, Revision: 0, Pages:

Drawing No. ABS SECTION AND TYPE REQUEST 150-250 V, ABS SECTION AND TYPE REQUEST 150-250 V, Revision: 0, Pages:

Drawing No. F-MXCH, F-MXCH, Revision: 0, Pages:

Drawing No. PDA TYPE APPROVAL SUBMISSION, PDA TYPE APPROVAL SUBMISSION\_040924, Revision: -, Pages:

Drawing No. MXCH, MXCH, Revision: 0, Pages:

Drawing No. MXH, MXH, Revision: 0, Pages:

Drawing No. F-MXCH-FR, F-MXCH-FR, Revision: 0, Pages:

Drawing No. MX, MX, Revision: 0, Pages:

Drawing No. F-MX(st)H-TP, F-MX(st)H-TP, Revision: 0, Pages:

Drawing No. approved reports 150-250 V., approved reports 150-250 V.....2023-05-12-15-13-13-01, Revision: 0, Pages:

Drawing No. MXH-FR, MXH-FR, Revision: 0, Pages:

Drawing No. ISO 9001-2015 2024, ISO 9001-2015 2024, Revision: 0, Pages:

Drawing No. F-MX(st)H-TP-FR, F-MX(st)H-TP-FR, Revision: 0, Pages:

Drawing No. approved reports 0,6-1 KV, approved reports 0,6-1 KV .....2023-05-12-15-09-44-01, Revision: 0, Pages:

Drawing No. ABS SECTION AND TYPE REQUEST 0.6-1 kV, ABS SECTION AND TYPE REQUEST 0.6-1 kV, Revision: 0, Pages:

Drawing No. L-01 MASTER, L-01 MASTER L#STES#, Revision: 0, Pages:

Drawing No. 1x2x2,50 F-MXCH-FR - 284346-2023-203628, Revision: 0, Pages:

Drawing No. Lloyd rutin testler, Revision: 0, Pages:

Drawing No. 1x35,00 MXH-FR - 284286-2023-203628, Revision: 0, Pages:

Drawing No. LR23375899TA\_MergedAppendix LRS, Revision: 0, Pages:

Drawing No. LR23374307TA\_MergedAppendix LRS, Revision: 0, Pages:

Drawing No. 3x2,50 MXCH-FR - 252211-2023-188693, Revision: 0, Pages:

Drawing No. 7x1,50 MXCH-FR - 284545-2023-203628, Revision: 0, Pages:

Drawing No. 20x2x0,75 F-MXCH-FR - 284458-2023-203628, Revision: 0, Pages:

Drawing No. 4x2x1,50 F-MXCH-FR - 284518-2023-203628, Revision: 0, Pages:

Drawing No. TEST PERIYODIC TABLE, Revision: 0, Pages:

Drawing No. 1x35,00 MXCH-FR - 284590-2023-203628, Revision: 0, Pages:

Drawing No. LR23374307TA DAD IC Cables Final LRS, Revision: 0, Pages:

Drawing No. LR23375899TA DAD LV Cables Final LRS, Revision: 0, Pages:

Drawing No. erse kablo test raporlar#, Revision: 0, Pages:

Drawing No. 7x1,50 MXH-FR - 284313-2023-203628, Revision: 0, Pages:

Drawing No. Photographic Evidence, Revision: 0, Pages:

Drawing No. 3x2,50 MXH-FR - 284224-2023-203628, Revision: 0, Pages:

**Term of Validity**

This Product Design Assessment (PDA) Certificate remains valid until 22/Oct/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**

2024 Rules for Conditions of Classification 1A-1-4/7.7, 1A-1-A3 and 1A-1-A4, which covers the following:

2024 Marine Vessels Rules: 4-8-3/9.

2024 Rules for Conditions of Classification - Offshore Units and Structures 1B-1-4/9.7, 1B-1-A2 and 1B-1-A3, which covers the following:

2024 Mobile Offshore Unit Rules: 4-3-4/7.

2024 Facilities on Offshore Installations 3-6/13.

2024 Rules for Conditions of Classification - Light and High-Speed Craft 1C-1-4/11.9, 1C-1-A2 and 1C-A-A3, which covers the following:

2024 Rules for Building and Classing High Speed Crafts:4-6-4/13.

**International Standards**

IEC 60092-350 (2020)

IEC 60092-376 (2017)

IEC 60092-360 (2021)

IEC 60092-353 (2024)

IEC 60228 (2004)

IEC 60332/1-2 (2015)

IEC 60332/3-22 Cat A (2018)

IEC 61034-2 (2019)

IEC 60754-1(2019)

IEC 60331-21 (1999)

**EU-MED Standards**

NA

**National Standards**

NA

**Government Standards**

NA

**Other Standards**

NA



A handwritten signature in dark ink, appearing to read 'Jesse J. Wilk'.

Corporate ABS Programs  
American Bureau of Shipping  
Print Date and Time: 29-Jul-2025 7:12

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.