



# TÜRK LOYDU

## TYPE APPROVAL CERTIFICATE

This is to certify that the  
**Shipboard Power, Lighting and Control Cables**

Manufacturer : KABLOTEK KABLO SAN. ve Tic. A.Ş.

Address : Mimarşinan Mah. Sadi Sok. Kabtek Kablo Blok No: 46/A Silivri, İstanbul

Product Type : M2X

Reference Rule : IEC 60092-360, 04.01.2021  
IEC 60092-350, 28.01.2020  
IEC 60092-353 , 01.09.2016  
TS EN 60228 - CONDUCTORS OF INSULATED CABLES, 01.12.2005  
IEC 60754 - 1&2 , 17.11.2011  
IEC 61034 - 1&2 , 20.04.2005  
TL Rules, Part B, Chapter 5, Electric , 01.01.2024  
IEC 60332-1-2 Tests on electric and optical fibre cables under fire conditions -  
Part 1-2: Test for vertical flame propagation for a single insulated wire or cable -  
Procedure for 1 kW pre-mixed flame , 27.12.2005

Subject to the conditions referred to in the following pages, this certificate is valid until **16.04.2031**

Surveyor: **Abdullah DEMİRCİ**

Issued at **İstanbul** on **24.04.2026**



*This document is electronically signed and  
does not require a manual signature*

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**Emrah SÖĞÜTÇÜ**  
New Building Division Manager  
**TÜRK LOYDU**

Expire Date of Previous Certificate: -

**This certificate is subject to terms and conditions described below:**

Any significant change in design or construction may render this Certificate invalid. Certificate is not valid for equipment, the design or manufacture of which has been varied or modified from the specimen tested. This certificate is not valid for products without marking above mentioned. The manufacturer should notify TÜRK LOYDU of any modifications or changes to equipment in order to obtain valid certificate. This certificate shows that tested specimens as representative of the product complies of the TÜRK LOYDU rules, and relevant international instruments that apply to it.

Approval No / Date	: PAE-EPAS/024241/25-3156/MY/12.03.2026
Application	: <b>Low voltage power, lighting and control internal cables for Shipboard Installations. Not intended for use as essential cables.</b>
Cross Section	: <b>1-300mm<sup>2</sup></b>
Type Designation	: <b>M2X: Halogen free unarmored, unsheathed power internal cables</b>
Material Used	: <b>Conductor: Bare or Tinned Copper, stranded Material for Insulation: Low Smoke HFFR Cross-Linked Polyolefin Compound, HF90 Colour of Sheat: Black or Yellow/Green (other colors available on request)</b>
Rated Voltage	: <b>0.6-1 kV</b>
Operating Temperature	: <b>-35°C to +90°C</b>
Application/Limitation	: <b>Naval Application are not covered with this Type Approval Certificates.</b>
Documentation	: <b>1. Routine Test Report, Issued By KABLOTEK-02/03/2026 2. Ageing Test with Air Oven Test Report, Issued By KABLOTEK-10.03.2026 3. HotSet Test for HF90 Test Report, Issued By KABLOTEK-02/03/2026 4. Flame Propagation Test Report Issued By KABLOTEK-02/03/2026 5. Halogen Content -Determination of Acidity and Conductivity Test Report, Issued By KABLOTEK-02/03/2026 6. Smoke Density Test Report, Issued By KABLOTEK-02/03/2026 7. Increase in AC Capacitance Test Report, Issued By KABLOTEK-02/03/2026</b>
Performed Tests	: <b>Following Test have been carried out and found satisfactory; Quality Audit Visual Inspection and Dimensional Controls Marking Control Print Durability Control Mechanical Controls; -Tensile Strength and Elongation Tests Thermal Effect Tests; -Hot Set Test Flame Retardant Test Tensile Strength and Elongation Change Tests Before Ageing Treatment Tensile Strength and Elongation Change Tests After Ageing Treatment Smoke Density Test Electrical Controls; -Conductor Resistance Test -High Voltage Test -Insulation Resistance Test -Increase in AC Capacitance Test Halogen Content Control, Corrosivity of Combustion Gases and Fluorine Content Test</b>
Test Place	: <b>KABLOTEK KABLO SANAYİ VE TİCARET ANONİM ŞİRKETİ, Mimarsinan Mah. Sadi Sok. Kabtek Kablo Blok No: 46/A Silivri, İstanbul</b>
Marking of Product	: <b>KABTEK [type] [size] [volt class] [ related standards] [Lot Number][Production Year] [Cable Length]</b>
Last Inspection Date	: <b>10.03.2026</b>
Approval Conditions	: <b>1- Applications other than the "Material Used*" upper mentioned are not covered by this type approval certificates.</b>