Certificate No: **2603101508276354**
TL Project No: **25-3156**

TYPE APPROVAL CERTIFICATE

This is to certify that the

Shipboard Power, Lighting and Control Cables

Manufacturer	:	**KABLOTEK KABLO SAN. ve Tic. A.Ş.**
Address	:	**Mimarsinan 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**

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

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

Click here for the verification website

Emrah SÖĞÜTÇÜ
New Building Division Manager
TÜRK LOYDU

Expire Date of Previous Certificate: -

For Information Only

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	**: Low voltage power, lighting and control internal cables for Shipboard Installations. Not intended for use as essential cables.**
Cross Section	**: 1-300mm2**
Type Designation	**: M2X: Halogen free unarmored, unsheathed power internal cables**
Material Used	**: 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)**
Rated Voltage	**: 0.6-1 kV**
Operating Temperature	**: -35°C to +90°C**
Application/Limitation	**: Naval Application are not covered with this Type Approval Certificates.**
Documentation	**: 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**
Performed Tests	**: 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**
Test Place	**: KABLOTEK KABLO SANAYİ VE TİCARET ANONİM ŞİRKETİ, Mimarsinan Mah. Sadi Sok. Kabtek Kablo Blok No: 46/A Silivri, İstanbul**
Marking of Product	**: KABTEK [type] [size] [volt class] [related standards] [Lot Number][Production Year] [Cable Length]**
Last Inspection Date	**: 10.03.2026**
Approval Conditions	**: 1- Applications other than the "Material Used*" upper mentioned are not covered by this type approval certificates.**

For Information Only