



TÜRK LOYDU

TYPE APPROVAL CERTIFICATE

This is to certify that the

TYPE-4 : NAVY SHIP SIGNAL AND COMMUNICATION CABLES

Manufacturer	: KABLOTEK KABLO SAN. ve Tic. A.Ş.
Address	: Mimarsinan Mah. Sadi Sok. Kabtek Kablo Blok No: 46/A Silivri, İstanbul
Product Type	: TASEYEYO, TASEYEYO-FR180
Reference Rule	: TL Rules, Part E, Chapter 105 - Naval Ship Technology, Electrical Installations, 01.01.2022 TL Rules, Part B, Chapter 5, Electric , 01.01.2024 S-P 01/21 REV.01 ASKERİ GEMİ KABLoları İÇİN TEST GEREKSİNİMLERİ, 01.07.2024

Subject to the conditions referred to in the following pages, this certificate is valid until 07.05.2031

Surveyor: Abdullah DEMİRCİ

Issued at İstanbul on 08.05.2026



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/024202/25-3157/MY/11.03.2026
Application	: Tip 4, Screened Twisted Pair, Overall Screened, Signal and Communication Cables For Naval Ships
Cross Section	: 0,75 mm ²
Size	: Pair Count: 2, 4, 7, 11, 14, 19, 24
Type Designation	: Below type designations are to be used; TASEYEYO: Halogen free, screened pair and overall screened signal and communication cables TASEYEYO-FR180: Halogen free, screened pair and overall screened signal and communication cables with fire resistant capability
Material Used	: Conductor: Bare or Tinned Copper, stranded Material for Insulation: EPR Ethylene-Propylene Rubber - Halogen free, cross-linked compound in which the elastomer is an ethylene-propylene Material for Covering of Cores: - Halogen free, elastic compound Material for Screen: - Bare or Tinned Copper, stranded Material for Sheath: SHF 2 halogen-free rubber - Halogen free, cross-linked compound in which the polymer is a polyolefin or equivalent synthetic polymer
Rated Voltage	: 250 VAC & 355 VDC
Operating Temperature	: -40°C to +90°C
Documentation	: 1. Type-4 : Navy Ship Signal and Communication Cables Test Plan 2. Service Life Test for SHF2 (Sheath), Issued By KABLOTEK-02/01/2026 3. Service Life Test for EPR (Insulation), Issued By KABLOTEK-02/01/2026 4. Routine Test Report, Issued By KABLOTEK-06/02/2025 5. Ageing Test with Air Oven Test Report, Issued By KABLOTEK-14/02/2025 6. Ageing Test with 15W40 Test Report, Issued By KABLOTEK-14/02/2025 7. Ageing Test with MDO-Main Diesel Oil Test Report, Issued By KABLOTEK-14/02/2025 8. HotSet Test for SHF 2 Test Report, Issued By KABLOTEK-30/04/2025 9. HotSet Test for EPR Test Report, Issued By KABLOTEK-30/04/2025 10. Flame Propagation Test Report Issued By KABLOTEK-06/02/2025 11. Ozone Resistance(Method B), Halogen Gas Emission (pH min,resistivity max), Test Report Issued By KABLOTEK-30/04/2025 12. Fluorine Content (HF Max.), Toxicity Test Report for SHF2 Issued By TÜV Rheinland, Report No.: CN25D0XG 001, 21/04/2025 13. Cold Bending Test Report, Issued By KABLOTEK-30/04/2025 14. Cold Elongation Test Report, Issued By KABLOTEK-06/02/2025 15. Transfer Impedance Test Report, Issued By KABLOTEK-06/02/2025 16. Halogen Content -Determination of Acidity and Conductivity Test Report, Issued By KABLOTEK-30/04/2025 17. Tear Resistance and Abrasion for SHF2 Test Report, Issued By KABLOTEK-30/04/2025 18. Pressure Test at High Temperature Test Report, Issued By KABLOTEK-30/04/2025 19. Shrinkage Test Report, Issued By KABLOTEK-30/04/2025 20. Heat Shock Test Report, Issued By KABLOTEK-30/04/2025 21. Smoke Density Test Report, Issued By KABLOTEK-06/02/2025 22. Fire Resistivity Test Report, Issued By KABLOTEK-02.03.2026 23. Ageing of Insulation in Air Bomb Test Report, Issued By KABLOTEK-10.03.2026

Performed Tests	<p>: Following Test have been carried out and found satisfactory;</p> <p>Quality Audit Visual Inspection and Dimensional Controls Marking Control Print Durability Control Mechanical Controls; -Tensile Strength and Elongation Tests -Abrasion Test -Tear Resistance Test -Pressure Test at High Temperature Thermal Effect Tests; - Cold Bending Test - Cold Elongation Test -Hot Set Test -Shrinkage Test -Heat Shock Test - Ageing of Insulation in Air Bomb Test Flame Retardant Test Fire Resistance Test Tensile Strength and Elongation Change Tests Before Ageing Treatment Tensile Strength and Elongation Change Tests After Ageing Treatment Ozone Resistance Test Smoke Density Test In Service Life Test Electrical Controls; -Conductor Resistance Test -High Voltage Test -Insulation Resistance Test -Electromagnetic Compatibility -Increase in AC Capacitance Test Halogen Content Control, Corrosivity of Combustion Gases and Fluorine Content Test Toxicity Index Control Chemical Resistance and Oil Resistance Tests for Sheath</p>
Test Place	<p>: KABLOTEK KABLO SANAYİ VE TİCARET ANONİM ŞİRKETİ, Mimarsinan Mah. Sadi Sok. Kabtek Kablo Blok No: 46/A Silivri, İstanbul</p>
Marking of Product	<p>: KABTEK, TASEYEYO/TASEYEYO-FR180 (TL:Tip4), Number of Cores, Cross Section, TL SP 01/21, Lot Number, Year of Production, Length of Cable</p>
Approval Conditions	<p>: 1- Applications other than the "Material Used*" upper mentioned are not covered by this type approval certificates.</p>
