Certificate No.: 2411131548023878

TÜRK LOYDU

TYPE APPROVAL CERTIFICATE

This is to certify that the

FIRE RESISTANT POWER CABLES

TL Project No:	**23-1663**
Manufacturer:	**BAŞOĞLU Kablo ve Profil Sanayi ve Tic. A.Ş.**
Address:	**Merkez, Organize Sanayi Bölgesi, Akın Çakmak Blv. Bolu**
Product Type:	**GTŞ- ÇDK, GTŞ-TDK**
Reference Rule	**TL Rules, Part B, Chapter 5, Electric, 01.07.2022** **TS IEC 60331-21 - Tests For Electric Cables Under Fire Conditions - Circuit İntegrity - Part 21: Procedures And Requirements - Cables of Rated Voltage Up to and İncluding 0,6/1,0 kV, 07.12.2006** **TS EN 60228 - CONDUCTORS OF INSULATED CABLES, 01.12.2005vvvIEC 60754 - 1&2 , 17.11.2011** **TSE K 331-CABLES RATED VOLTAGE 0.6 / 1 KV INSULATION AND SHEATH WITH FIRE PERFORMANCE HEAT RESISTANT SILICON POWER CABLES WITH HALOGEN , 24.02.2015** **EN 50363-1 Insulating, sheathing and covering materials for low-voltage energy cables Part -1: Cross-linked elâstomeric insulating compounds, 25.04.2006** **EN 50363-2- 1 Insulating, sheathing and covering materials for low voltage energy cables - Part 2-1: Cross-linked elastomeric sheathing compounds , 25.04.2006** **EN IEC 60331-1 Tests for electric cables under fire conditions - Circuit integrity - Part 1, 30.09.2019** **IEC 60332-3-22,Tests on electric and optical fibre cables under fire conditions - Part 3-22: Test for vertical flame spread of vertically-mounted bunched wires or cables - Category A, 19.11.2018** **TS EN 60332-1-2Tests 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 preixed flame , 27.12.2005**

Subject to the conditions referred to in the following pages, this certificate is valid until 06.01.2030.

Expire Date of Previous Certificate -

Place and Date **İSTANBUL / 29.01.2025**

Emrah SÖĞÜTÇÜ

New Building Division Manager

132162

This certificate is subject to terms and conditions described below:

- Any significant change in design or construction may render this Certificate invalid. Type Approval 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 revelant international instruments that apply to it.

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Product	: FIRE RESISTANT POWER CABLES
Type of Product	: GTŞ- ÇDK, GTŞ-TDK
Product Description	: Number of Cores: 1, Cross section area: 1mm2 to 300 mm2 for GTŞ-TDK Number of Cores: 2 to 16, Cross Section area: 1mm2 to 95 mm2 for GTŞ-ÇDK Operating Temperature: -60 °C / +180 °C Conductor: Electrolytic Flexible Tinned Copper According to TS EN 60228, 01.12.2005, Class 5 Insulation: Silicone Insulation (EI2 According to EN 50363-1, 25.04.2006) Filler: Silicone Compound (EM9 Type According to EN 50363-2-1, 25.04.2006) for GTŞ-ÇDK Screen: Tinned Copper Braid Separator: AL-PET Tape Outer Sheath: Silicone Compound (EM9 Type According to EN 50363-2-1, 25.04.2006) Outer Sheath Colours: Orange (Other Colours on Request.)
Approval No / Date	: PAE-EPAS/019784/23-2626/EA, 16.10.2024
Rated Voltage	: 0.6 / 1kV
Performed Tests	: Quality Audit Visual inspection and dimensional controls Construction and finishing control Marking control Print durability control Mechanical controls: Tensile strength and elongation tests (Insulation and sheath) Thermal effect tests: Cold bend test, Coiling test at low temperature, Hot set test, Shrinkage test, Heat shock test Flame retardant tests (single cable and cable bunch) Smoke density control Electrical controls: Conductor resistance test, High voltage test, Insulation resistance test, Halogen content control Operation under fire condition test
Test Place	: BAŞOĞLU KABLO VE PROFİL SANAYİ VE TİCARET ANONİM ŞİRKETİ-BOLU
Test Scope	: Type Tests
Last Inspection Date	: 06.01.2025

Approval Conditions : 1- Applications other than the "Material Used" mentioned in this certificate are not covered by this type approval certificates.
2- Naval application are not covered by this type approval certificate

Surveyor Name : Osman Yalçın YALMAN

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