Certificate No.: 2303231514373878

TÜRK LOYDU

TYPE APPROVAL CERTIFICATE

This is to certify that the

CABLES

Manufacturer	BAŞOĞLU Kablo ve Profil Sanayi ve Tic. A.Ş.
Address	Merkez, Organize Sanayi Bölgesi, Akın Çakmak Blv. Bolu
Product Type	Flexible Type Power Cables
Reference Rule	TL Rules, Part E, Chapter 105 - Naval Ship Technology, Electrical Installations, 01.01.2022 TL Rules, Part B, Chapter 5, Electric, 01.07.2022
Place and Date	İSTANBUL / 10.04.2023
Approval Conditions :	Approved type of cable is only be used for shore power supply between ship and the shore mains.

Subject to the conditions referred to in the following pages, this certificate is valid until 29.03.2028.

129520

Emrah SÖĞÜTÇÜ
New Building Division Manager

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.

Type of Product	: Flexible Type Power Cables
Product Description	: NSSHÖU: Conductor: Copper (Tinned or bare), fine stranded flexible acc.to DIN VDE 0295 class 5 Insulation: 3GI3 type rubber compound Inner sheath: GM1b type rubber compound Outer sheath: 5GM5 type rubber compound NSHCÖU: Conductor: Copper (Tinned or bare), fine stranded flexible acc.to DIN VDE 0295 class 5 Insulation: 3GI3 type rubber compound Inner sheath: GM1b type rubber compound Screen:Copper wire braiding Outer sheath: 5GM5 type rubber compound Core and Sheath identification; unless otherwise we stated on the order it shall be as follows; coloured cores up to and including 5 core ,over 5 core black core with number print -J where the G/Y core is included Single core: Black or Natural, Sheath: Yellow
Approval No / Date	: PAE-EPAS/015573/22-2538/GTÇ, 23.03.2023
Application	: Flexible Shore Connection Cables
Cross Section	: 1.5 mm2 up to 400 mm2, number conductors 1 up to 40
Standart	: Oil resistant according to EN 60811 2, Flame retardant: IEC/EN 60332-1-2
Rated Voltage	: 0,6/1kV
Performed Tests	: Below tests have been carried out and found satisfactory. QMS audit has been performed for type approval process. Mechanical tests: Dimensional controls, Elongation and Tensile strength before and after aging (insulation and sheaths), Oil resistance test, Hot-Set test (insulation and sheaths), Abrasion test (sheath), Tear strength(sheath), Vertical flame retardancy test. Electrical tests: Conductor resistance test, Insulation resistance test, High voltage test
Test Place	: BAŞOĞLU KABLO VE PROFİL SANAYİ VE TİCARET ANONİM ŞİRKETİ- BOLU
Test Scope	: Type Tests
Last Inspection Date	: 24.03.2023

Surveyor Name : Osman Yalçın YALMAN

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