Certificate No.: 2206151125114381





# **TÜRK LOYDU**

# TYPE APPROVAL CERTIFICATE

This is to certify that the

## **Cables**

Manufacturer

ÜNTEL KABLOLARI SAN VE TİC A.Ş.

**Address** 

Demirciler Köyü, Makine Osb 6, Cad No:4, 41455 Dilovası /

Kocaeli, TURKEY

**Product Type** 

Flexible type power cables

Particulars / Designation

NSSHÖU, NSHCÖU

**Application** 

Flexible shore connection cables

Reference Rule

TL Rules, Part B, Chapter 5, Electric, 01.01.2021

TL Rules, Part E, Chapter 105 - Naval Ship Technology, Electrical

Installations, 01.01.2022

Place and Date

ISTANBUL / 15.06.2022

Subject to the conditions referred to in the following pages, this certificate is valid until 14.06.2027.

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.

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#### **Product Details:**

NSSHÖU- Conductor + Insulation + Bedding + Outer sheath Conductors: Stranded copper wire according to IEC 60228 CL 5

Insulation: EPR, 3G13 acc. to DIN VDE 0207 part 20 Bedding: GM 1b according to DIN VDE 0207-21 Outer Sheath: 5GM5 according to DIN VDE 0207-21

NSHCÖU- Conductor + Insulation + Inner sheath + Screen + Outer Sheath

Conductors: Stranded copper wire according to IEC 60228 CL 5

Insulation: EPR, G1 acc. to DIN VDE 0207 part 20 Inner sheath: 5GM1a according to DIN VDE 0207-21

Screen: Copper wire braiding

Outer Sheath: 5GM5 according to DIN VDE 0207-21

Marking of the product: UNTEL [type] [size] [volt. class] [related standards] [temp. class]

### Application / Limitation (Approval Conditions):

Cables cannot be used for the same cable applications which are approved under S.P.01/21 TL Guideline.

May be used as auxiliary, flexible applications such as shore connection or auxiliary deck machinery.

#### Plan Approval Remarks: -

**Documentation:** Manufacturer test reports

Performed Tests: Following tests were carried out with satisfactory results.

Type tests

QMS audit

Product : Electric Cable

Type of Product : Flexible power cables

Application : Flexible shore connection cables

Cross Section : Cross Section 1,5 mm² up to 240 mm², Number of conductors 1

up to 40

Standard : TL Rules Part B Chapter 5 Jan 2021, Part E Chapter 105 Jan

2022

Surveyor Name: Yağız YILDIRIM

This certificate is subject to terms and conditions described below:

<sup>-</sup> 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.