



# TÜRK LOYDU

## TYPE APPROVAL CERTIFICATE

This Certificate consists of 2 pages.

This is to certify that the

### SHIPBOARD POWER CABLES

With type designations

MGG, MGCG, MGH, MGCH, MGCH-FFR

Manufactured by

ÜNTEL KABLoları SANAYİ VE TİCARET A.Ş.

Is found to comply with

Türk Loydu Rules Part B Chapter 5 January 2021 and Part E Chapter 105 January 2016,  
DIN 89158, DIN 89160, IEC 60092-353, IEC332-3 category A, IEC 60331

<b>Application</b>	: Power and lighting cables for ships
<b>Design</b>	: Voltage class 0.6/1 kV and Temp. class 85°C
<b>Sizes</b>	: acc. to DIN 89158 and DIN 89160
<b>Address of Manufacturer</b>	: Demirciler Köyü, Makine OSB, 6. Cadde, No:4, 41455 Dilovası/KOCAELİ TÜRKİYE
<b>Place and date</b>	: İSTANBUL / 23.06.2021

Subject to the conditions referred to in the following pages, this certificate is valid until 22.06.2026.

**Emrah SÖĞÜTÇÜ**  
New Building Division Manager



**Product description** : SHIPBOARD POWER CABLES

**Type Designation** : MGG & MGH (con. + ins. + she.)  
MGCG & MGCH (con. + ins. + cov. + arm. + she.)  
MGCH-FFR (con. + FR cov. + ins. + cov. + arm. + she.)

**Materials used** :

**Conductors (con.)** : Stranded copper wire

**Fire Resistive covering (FR cov.)**: mica band

**Insulation (ins.)** : EPR

**Armouring (arm.)** : Copper braid

**Inner Covering (cov.)** : Filled

**Outer Sheath (she.)** : SE1 for MGG, MGCG and SHF1 for MGH, MGCH acc. to IEC 60092-360

**Application/ Limitation (Approval conditions):**

For each new building and in service ships under major modifications, factory acceptance tests (routine tests) for cables shall be carried out before mounted to the ship with the witness of TL surveyor.

**Documentation** : Product data sheets and test reports.

**Test carried out (and results)** : Type tests according to DIN 89158 and DIN 89160, for fire resistive cables according to IEC 60331

**Place of test carried out** : ÜNTEL Cable Factory – Dilovası Kocaeli

**Marking of product:** The product to be marked same as below mentioned.  
ÜNTEL [type] [size] [volt. class] [related standards] [temp. class]

  
Yağız YILDIRIM for.  
Surveyor

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 the 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.