



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 KABLOLARI SANAYİ VE TİCARET A.Ş.

Is found to comply with

Türk Loydu Rules Chapter 5 and Chapter 105,
DIN 89158, DIN 89160, IEC 60092-353, IEC332-3 category A, IEC 60331

Application	: Power and lighting cables for ships
Design	: Voltage class 0.6/1 kV and Temp. class 85°C
Sizes	: acc. to DIN 89158 and DIN 89160
Address of Manufacturer	: Demirciler Köyü, Makine OSB, 6. Cadde, No:4, 41455 Dilovası/KOCAELİ TÜRKİYE
Place and date	: İSTANBUL / 12.01.2018



Subject to the conditions referred to in the following pages, this certificate is valid until 27.06.2021.

This certificate supersedes TO.DEB.16-0506-09 numbered and 28.06.2016 date certificate

Emrah SÖĞÜTÇÜ
New Building Division Manager



Osman Yalçın YALMAN
Surveyor

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):

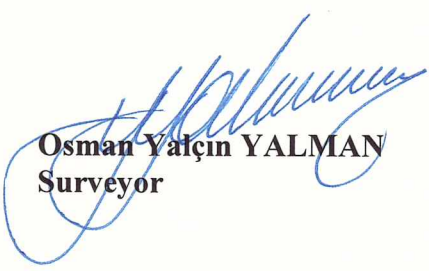
For each new building and in service ships under major modifications, factory acceptance tests (routine tests) for cables shall be carried out before mounted to the ship with the witness of TL surveyor.

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]


Osman Yalçın YALMAN
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 LÖYDU rules, and relevant international instruments that apply to it.