



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, MGG-FR, MGCG-FR, MGH-FR, MGCH-FR,
MGCG EMC, MGCH EMC, MGCG-FR EMC, MGCH-FR EMC

Manufactured by

ÜNİKA ÜNİVERSAL KABLO SANAYİ VE TİCARET A.Ş

Is found to comply with
Türk Loydu Rules for the Classification of Steel Ships,
DIN 89158, IEC 60092-353, IEC 60332-22 Cat A,
IEC 60331-21 for fire resistivity,
EN 50147-1 and Mil-Std 285 for EMC

Application	: Power and lighting cables for ships
Design	: Voltage class: 0.6/1 kV and Temp. class 90°C
Sizes	: acc. To DIN 89158, IEC 60092-353
Address of Manufacturer	: Veliköy Sanayi Bölgesi Çerkezköy – Tekirdağ / Türkiye
Place and date	: İSTANBUL / 05.04.2018

Subject to the conditions referred to in the following pages, this certificate is valid until 17.06.2023


Emrah SÖĞÜTÇÜ
New Building Division Manager


Yağız YILDIRIM
Surveyor



Product description: SHIPBOARD POWER CABLES

Type Designation : MGG, MGH, MGG-FR, MGH-FR (con. + ins. + she.)
MGCG, MGCH, MGCG-FR, MGCG EMC, MGCH EMC,
MGCG-FR EMC, MGCH-FR EMC (con. + ins. + cov. + arm. + she.)

Materials used :

Conductors (con.) : Stranded copper wire according to IEC 60228

Insulation (ins.) : HEPR according to IEC 60092-360

Armouring (arm.) : Copper braid and additional cover only for emc cables

Inner Covering (cov.) : Filled

Outer Sheath (she.) : SE1 flame retardant rubber for MGG, MGCG and
SHF 1 flame retardant / low smoke density/halogen free for MGH, MGCH
According to IEC 60092-360

Material for fire resistivity : Fire resistive tape around conductor according to IEC 60331-21

Application/ Limitation (Approval conditions):

Sizes shall be checked according to DIN 89158 OR IEC 60092-353 standards during routine tests depending to customer request.

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Type Approval Documentation :

Product test reports

Shielding Effectiveness Test Report

Test carried out (and results) :

Type tests according to DIN 89158, IEC 60092-353, IEC 60331-21, IEC 60332-3-22 Cat A

Place of test carried out :

ÜNİKA Cable Factory - ÇERKEZKÖY

Marking of product: The product to be marked same as below mentioned.

ÜNİKA [type] [size] [volt] [standards]



Yağız YILDIRIM

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.