



TÜRK LOYDU

TYPE APPROVAL CERTIFICATE

This Certificate consists of 2 pages.

This is to certify that the

SHIPBOARD POWER CABLES

With type designations

LMGSGO, LMGSGO-FR

Manufactured by

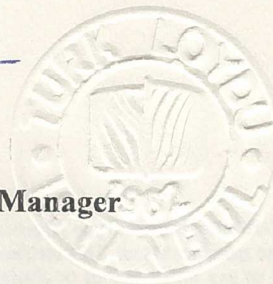
ÜNİKA ÜNİVERSAL KABLO SANAYİ VE TİCARET A.Ş

Is found to comply with
Türk Loydu Rules for the Classification of Steel Ships,
VG 95218 – 61 and IEC 60331-21 for fire resistivity

Application	: Power, lighting cable for naval ships
Design	: Voltage class 550 V AC and Temp. class 90°C
Sizes	: acc. To VG 95218 - 61
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 : LMGSGO, LMGSGO-FR

Materials used :

All non-metallic materials shall be free of halogens.

Material for conductors: Copper for electrical application, conductor class 2 according to IEC 60228.

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

Material for insulation: Halogen free cross-linked polymeric material

Material for covering of cores : Elastic or plastic compound halogen free.

Material for screen: Copper for electrical application.

Material for sheath : Halogen free cross linked elastomeric compound, in general on the basis of olefin copolymer.

Application/ Limitation (Approval conditions):

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Type Approval Documentation :

Product test reports (ÜNİKA, VDE, TSE, BOUN)

In-service life test (20 000 h) and determination of temperature index test report (IMQ 2010/12/21 No :01SK00128)

Test carried out (and results) :

Type tests according to VG95218 – 61, IEC 60331-21

Place of test carried out :

ÜNİKA Cable Factory - ÇERKEZKÖY

Marking of product:

ÜNİKA [type] [size] [volt] [temp.] [related 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.