



# TÜRK LOYDU

## TYPE APPROVAL CERTIFICATE

This Certificate consists of 2 pages.

This is to certify that the

### SHIPBOARD TELECOMMUNICATION & CONTROL CABLES

With type designations

LFMKK, XLFMKK

Manufactured by

ÜNTEL KABLOLARI SANAYİ VE TİCARET A.Ş.

Is found to comply with

Türk Loydu Rules Part E Chapter 105 January 2016

<b>Application</b>	: Telecommunication and control cables for ships
<b>Design</b>	: Voltage class 250 V and Temp. class 75°C
<b>Sizes</b>	: According to the manufacturer specification
<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 TELECOMMUNICATION & CONTROL CABLES

**Type Designation** : LFMKK (con. + ins. + cov. + arm. + she.)  
XLFMKK (con. + ins. + ind. + cov. + arm. + she.)

**Materials used** :

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

**Insulation (ins.)** : PVC+Polyamide

**Individual screen (ind.)** : Copper braid (Only for XLFMKK)

**Inner Covering (cov.)** : Filler (PVC)

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

**Outer Sheath (she.)** : PVC

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

Usage of this type of cable is not permitted in new building ships. In service ships, usage of this type of cable only allowable if original cabling is same type.

For each 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 IEC 60092-350, IEC 60332

**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  
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.