



TYPE APPROVAL CERTIFICATE
No. ELE128419XT/001

This is to certify that the product below is found to be in compliance with the applicable requirement of the RINA type approval system.

<i>Description</i>	ELECTRIC CABLES
<i>Type</i>	LSM-HF (1XC4Z1-R, 1XC4Z1-K), LM-HF (1XZ1-R, 1XZ1-K), LM-FRHF (1J2XZ1-R, 1J2XZ1-K), LSM-FRHF (1J2XC4Z1-R, 1J2XC4Z1-K), LSM-HF EMC (1XC7Z1-R, 1XC7Z1-K)
<i>Applicant</i>	TÜRK PRYSMIAN KABLO VE SİSTEMLERİ A.S. ÖMERBEY MAH., BURSA ASFALTI CAD. No.51 Mudanya TURKEY
<i>Manufacturer</i>	TÜRK PRYSMIAN KABLO VE SİSTEMLERİ A.S.
<i>Place of manufacture</i>	ÖMERBEY MAH., BURSA ASFALTI CAD. No.51 Mudanya TURKEY
<i>Reference standards</i>	IEC 60092-350; IEC 60092-353; IEC 60092-360; IEC 60228; IEC 60331; IEC 60332-1; IEC 60332-3-22 Cat. A; IEC 60754-1; IEC 60754-2; IEC 61034-1; IEC 61034-2

Issued in **ISTANBUL** on **December 30, 2019**. This Certificate is valid until **December 31, 2024**




RINA Services S.p.A.
Cinar Kutlar

This certificate consists of this page and 1 enclosure



TYPE APPROVAL CERTIFICATE

No. ELE128419XT/001

Enclosure - Page 1 of 1

LSM-HF (1XC4Z1-R, 1XC4Z1-K), LM-HF (1XZ1-R, 1XZ1-K), LM-FRHF (1J2XZ1-R, 1J2XZ1-K), LSM-FRHF (1J2XC4Z1-R, 1J2XC4Z1-K), LSM-HF EMC (1XC7Z1-R, 1XC7Z1-K)

Materials/Components

Marine power cables designed according to IEC 60092-353.

Rated voltage: 0,6 / 1 kV

Maximum rated conductor temperature: + 90 °C

Type: LSM-HF (1XC4Z1-R, 1XC4Z1-K), LM-HF (1XZ1-R, 1XZ1-K), LM-FRHF (1J2XZ1-R, 1J2XZ1-K), LSM-FRHF (1J2XC4Z1-R, 1J2XC4Z1-K), LSM-HF EMC (1XC7Z1-R, 1XC7Z1-K)

Marking: PRYSMIAN -AFUMEX MARINE CABLES - TYPE -SIZE - 0.6/1 kV - IEC 60092-353 - IEC 60332-3/A + YEAR + metric marking (by ink)

(For FR cables) PRYSMIAN -AFUMEX MARINE CABLES - TYPE -SIZE - 0.6/1 kV - IEC 60092-353 - IEC 60332-3/A - IEC 60331 + YEAR + metric marking (by ink)

Construction

Conductors: R types: Stranded copper conductor, class 2

K types: Flexible stranded copper conductor, class 5

Mica Tape: Only for J (FR) typed cables

Core Insulation: HF XLPE

Inner Covering: LSOH filler / LSOH inner covering or tape

Metal Covering: Bare copper wire braiding (only for C4 and C7 typed)

Screen: Electro Magnetic Compatible (EMC) 100% covered copper tape screen (EMC cables only)

Outer Sheath: SHF1

No of Elements: 1 to 6 / Cross-sectional area 1,5 to 300 mm²

No of Elements: 7 to 60 / Cross-sectional area 1,5 to 4 mm²

Reference documents : Test Report: Türk Prysmian Kablo EI-13-16, dated 05.04.2013

Reference Standards: IEC60092-350; IEC60092-353; IEC60092-360; IEC 60228; IEC 60332-3-22 cat A; IEC 60332-1-2; IEC 61034-1/2; IEC 60754-1/2; IEC 60331-11; IEC 60331-21

ISTANBUL December 30, 2019