



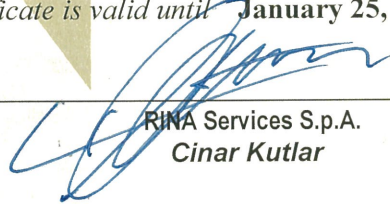
TYPE APPROVAL CERTIFICATE
No. ELE007420XT/001

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-FRHF (1J2XC7Z1-R, 1J2XC7Z1-K EMC), LSM-HF (1XC7Z1-R, 1XC7Z1-K EMC), LSM-FRHF (1J2XC4Z1-R, 1J2XC4Z1-K), LSM-HF (1XC4Z1-R, 1XC4Z1-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 **January 24, 2020**. This Certificate is valid until **January 25, 2025**




RINA Services S.p.A.
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This certificate consists of this page and 1 enclosure



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Enclosure - Page 1 of 1

LSM-FRHF (1J2XC7Z1-R, 1J2XC7Z1-K EMC), LSM-HF (1XC7Z1-R, 1XC7Z1-K EMC), LSM-FRHF
(1J2XC4Z1-R, 1J2XC4Z1-K), LSM-HF (1XC4Z1-R, 1XC4Z1-K)

Materials/Components

Marine power cables designed according to IEC 60092-353.

Rated voltage: 0,6/1 or 1,8/3 kV

Maximum rated conductor temperature: + 90 °C

Type: LSM-FRHF (1J2XC7Z1-R, 1J2XC7Z1-K EMC), LSM-HF (1XC7Z1-R, 1XC7Z1-K EMC), LSM-FRHF
(1J2XC4Z1-R, 1J2XC4Z1-K), LSM-HF (1XC4Z1-R, 1XC4Z1-K)

Marking: PRYSMIAN - AFUMEX MARINE CABLES - TYPE - SIZE - 0, 6/1 or 1, 8/3 kV - IEC 60092-353 -
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 Core: 1 to 6 / Cross-sectional area 10 to 300 mm²

Reference documents : Test Report: Türk Prysmian Kablo 20190075, dated 03.01.2020

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 January 24, 2020