

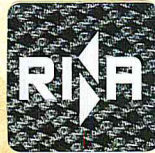


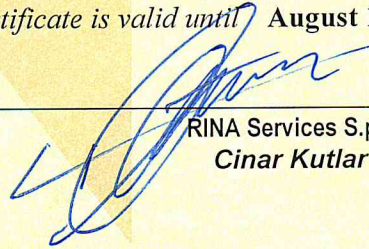
**TYPE APPROVAL CERTIFICATE**  
No. **ELE037718XT/005**

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

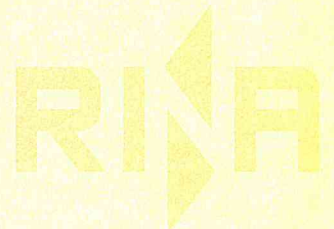
<i>Description</i>	<b>ELECTRIC CABLES</b>
<i>Type</i>	<b>FM2XCH FE180 150/250 V</b>
<i>Applicant</i>	<b>2M KABLO SANAYI VE TICARET A.S. SANCAKTEPE MAHALLESİ, KLAS SOKAK, NO:8, 34580 SILIVRI, ISTANBUL, TURKEY</b>
<i>Manufacturer</i>	<b>2M KABLO SANAYI VE TICARET A.S.</b>
<i>Place of manufacture</i>	<b>SANCAKTEPE MAHALLESİ, KLAS SOKAK, NO:8, 34580 SILIVRI, ISTANBUL, TURKEY</b>
<i>Reference standards</i>	<b>IEC 60092-350; IEC 60092-376; IEC 60331.</b>

Issued in **ISTANBUL** on **August 10, 2018**. This Certificate is valid until **August 19, 2023**



  
RINA Services S.p.A.  
**Cinar Kutlar**

This certificate consists of this page and 1 enclosure



**TYPE APPROVAL CERTIFICATE**

No. ELE037718XT/005

Enclosure - Page 1 of 1

**FM2XCH FE180 150/250 V**

**Materials/Components**

Shipboard instrumentation, control and communication cables, flame retardant, fire resistant, halogen free with low smoke emission, for ships and off-shore units installation.

Rated voltage: 150 / 250 V

Maximum rated conductor temperature: + 85 °C

Type: FM2XCH FE180

Marking: 2MKABLO IEC 60092-376 FM2XCH FE180 n x m x s(mm2) 150/250 V IEC 60332-3-22 IEC 60331 [METER MARK]

**Construction**

Conductor: Stranded Electrolytic Annealed Copper Class 2

Flame Barrier: Mica Tape

Insulation: XLPE

Lay-Up: Pairs and quads are stranded in layers

Screen: Electrolytic Copper Wire Braiding

Outer Sheath: HFFR SHF1

Number of Units: 1, 2, 4, 5, 6, 7, 8, 10, 12, 14, 16, 18, 19, 20, 24, 37; Cross-sec. area of conductors 0,5 and 0,75 mm<sup>2</sup>

Reference documents: Technical Specification No: 108-3/2011 (15/03/2012)

Reference Standards: IEC 60092-350; IEC 60092-376; IEC 60331; IEC 60332-3-22; IEC 60332-1-2; IEC 60228; IEC 60811; IEC 60754-1; IEC 60754-2; IEC 60092-360; IEC 60684-2; IEC 61034-1/2; IEC60754-1/2

**ISTANBUL 10.08.2019**