



**TYPE APPROVAL CERTIFICATE**  
No. ELE253523XT/014

**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>M2XH FE180 0.6/1 kV</b>
<i>Applicant</i>	<b>2M KABLO SAN. VE TIC. A.S. GAZIOSMANPASA OSB MAH., 4.CADDE, No.18A Tekirdag 59500 Cerkezkoy TURKEY</b>
<i>Manufacturer</i>	<b>2M KABLO SAN. VE TIC. A.S.</b>
<i>Place of manufacture</i>	<b>GAZIOSMANPASA OSB MAH., 4.CADDE, No.18A Tekirdag 59500 Cerkezkoy TURKEY</b>
<i>Reference standards</i>	<b>IEC 60092-350; IEC 60092-353; IEC 60331.</b>

Issued in **ISTANBUL** on **November 10, 2023**. This Certificate is valid until **August 19, 2028**

**Leonard Koroluk**

**RINA Services S.p.A.**



**Leonard Koroluk**  
Marine Surveyor  
RINA Istanbul  
26263

This certificate consists of this page and 1 enclosure



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Enclosure - Page 1 of 1

M2XH FE180 0.6/1 kV

### Materials/Components

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

Rated voltage: 0.6 / 1 kV

Maximum rated conductor temperature: + 85 °C

Type: M2XH FE180

Marking: 2MKABLO IEC 60092-353 M2XH FE180 n x s(mm<sup>2</sup>) 0.6/1 kV IEC 60332-3-22 IEC 60331 [METER MARK]

### Construction

Conductor: Stranded Electrolytic Annealed Copper Class 2

Insulation: XLPE

Flame Barrier: Mica Tape

Lay-Up: All cores as layers

Outer Sheath: HFFR SHF1

Number of Units: 1

Number of Units: 2,

Number of Units: 3, 4, 5

Number of Units: 6, 7, 8, 9, 10, 12, 14, 16, 18.....48

Number of Units: 60

Cross-sectional area of conductor: 0,75 to 300 mm<sup>2</sup>

Cross-sectional area of conductor: 1 to 25 mm<sup>2</sup>

Cross-sectional area of conductor: 1 to 240 mm<sup>2</sup>

Cross-sectional area of conductor: 1 to 2,5mm<sup>2</sup>

Cross-sectional area of conductor: 1 and 1,5 mm<sup>2</sup>

Reference documents: Technical Specification No: 117-4/2011 (12/08/2013)

Reference Standards: IEC 60092-350; IEC 60092-353; IEC 60331; IEC 60092-360; IEC 60332-3-22 (CAT-A); IEC 60332-1-2; IEC 60228; IEC 60811; IEC 60754-1; IEC 60754-2; IEC 61034-1; IEC 61034-2; IEC 60684-2

**ISTANBUL 11/10/2023**