

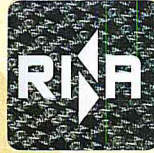


TYPE APPROVAL CERTIFICATE
No. ELE037718XT/011

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>	M2XCH FE180 0.6/1 kV
<i>Applicant</i>	2M KABLO SANAYI VE TICARET A.S. SANCAKTEPE MAHALLESİ, KLAS SOKAK, NO:8, 34580 SILIVRI, ISTANBUL, TURKEY
<i>Manufacturer</i>	2M KABLO SANAYI VE TICARET A.S.
<i>Place of manufacture</i>	SANCAKTEPE MAHALLESİ, KLAS SOKAK, NO:8, 34580 SILIVRI, ISTANBUL, TURKEY
<i>Reference standards</i>	IEC 60092-350; IEC 60092-353; IEC 60331.

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/011**
Enclosure - Page 1 of 1
M2XCH 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: M2XCH FE180

Marking: 2MKABLO IEC 60092-353 M2XCH FE180 n x s(mm²) 0.6/1 kV IEC 60332-3-22 IEC 60331 [METER MARK]

Construction

Conductor: Stranded Electrolytic Annealed Copper Class 2

Flame Barrier: Mica Tape

Insulation: XLPE

Lay-Up: All cores as layers

Screen: Electrolytic Copper Wire Braiding

Outer Sheath: HFFR SHF1

Number of Units: 1

Cross-sectional area of conductor: 1 to 300 mm²

Number of Units: 2, 3 4, 5

Cross-sectional area of conductor: 1 to 240 mm²

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

Cross-sectional area of conductor: 1 to 2,5mm²

Number of Units: 60

Cross-sectional area of conductor: 1 and 1,5 mm²

Reference documents : Technical Specification No: 114-4/2011 (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 10.08.2018