TYPE APPROVAL CERTIFICATE
No. **ELE058611XT/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.

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

Issued in **ISTANBUL** on **August 16, 2013**. *This Certificate is valid until* **August 16, 2018**

RINA
Orhan Pekcay

This certificate consists of this page and 1 enclosure

RINA Services S.p.A.
Via Corsica, 12 - 16128 Genova
Tel +39 010 53851
Fax +39 010 5351000

TYPE APPROVAL CERTIFICATE
No. **ELE058611XT/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 mm^2
Number of Units: 2, 3 4, 5	Cross-sectional area of conductor: 1 to 240 mm^2
Number of Units: 6, 7, 8, 9, 10, 12, 14, 16, 18.....48	Cross-sectional area of conductor: 1 to 2,5mm^2
Number of Units: 60	Cross-sectional area of conductor: 1 and 1,5 mm^2

Reference documents : Technical Specification No: 114-4/2011 (12/08/2013)
Reference Standards: IEC 60092-350; IEC 60092-353; IEC 60331; IEC 60092-359; IEC 60332-3-22 (CAT-A); IEC 60332-1-2; IEC 60228; IEC 60811; IEC 60754-1; IEC 60754-2; IEC 60092-351; IEC 61034-1; IEC 61034-2; IEC 60684-2;

ISTANBUL 16.08.2013

RINA Services S.p.A.
Via Corsica, 12 - 16128 Genova
Tel +39 010 53851
Fax +39 010 5351000