

TYPE APPROVAL CERTIFICATE
No. ELE037718XT/038

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

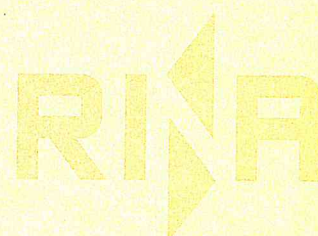
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|-----------------------------|---|
| <i>Description</i> | ELECTRIC CABLES |
| <i>Type</i> | MGCH FE180 0.6/1 kV |
| <i>Applicant</i> | 2M KABLO SAN. VE TIC. A.S. GAZIOSMANPASA OSB MAH., 4.CADDE, No.18A CERKEZKOY 59500 Tekirdag TURKEY |
| <i>Manufacturer</i> | 2M KABLO SAN. VE TIC. A.S. |
| <i>Place of manufacture</i> | GAZIOSMANPASA OSB MAH., 4.CADDE, No.18A CERKEZKOY 59500 Tekirdag TURKEY |
| <i>Reference standards</i> | IEC 60092-350; IEC 60092-353; IEC 60331. |

Issued in **ISTANBUL** on **March 29, 2019**. This Certificate is valid until **August 19, 2023**



RINA Services S.p.A.
Cinar Kutlar

This certificate consists of this page and 1 enclosure



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No. **ELE037718XT/038**

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MGCH 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: MGCH FE180

Marking: 2MKABLO IEC 60092-353 MGCH 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: HEPR

Lay-Up: All cores as layers

Screen: Electrolytic Copper Wire Braiding

Outer Sheath: HFFR SHF1

Number of Units: 1, 2, 4

Cross-sectional area of conductor: 0,5 and 0,75 mm²

Number of Units: 7, 10, 14, 19, 20

Cross-sectional area of conductor: 0,75 mm²

Reference documents: Technical Specification No: 121-4/2011 (28/03/2012)

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 March 29, 2019