



TYPE APPROVAL CERTIFICATE

No. ELE101419XT/001

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>	TOXFREE BFOI (C) FE180
<i>Applicant</i>	2M KABLO SAN. VE TIC. A.S. GAZIOSMANPASA OSB MAH., 4.CADDE, No.18A Tekirdag 59500 Cerkezkoy TURKEY
<i>Manufacturer</i>	2M KABLO SAN. VE TIC. A.S.
<i>Place of manufacture</i>	GAZIOSMANPASA OSB MAH., 4.CADDE, No.18A Tekirdag 59500 Cerkezkoy TURKEY
<i>Reference standards</i>	IEC 60092-350; IEC 60092-360; IEC 60092-376; IEC 60228; IEC 60331-21; IEC 60332-1; IEC 60332-3; IEC 60684-2; IEC 60754-1; IEC 60754-2; IEC 61034-1; IEC 61034-2

Issued in **ISTANBUL** on **November 19, 2019**. This Certificate is valid until **November 20, 2024**



RINA Services S.p.A.
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This certificate consists of this page and 1 enclosure



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TOXFREE BFOI (C) FE180

Materials/Components

Halogen free and flame retardant marine instrumentation, control and communication cables.

Rated voltage: 150 / 250 V

Maximum rated conductor temperature: + 90 °C

Type: TOXFREE BFOI (C) FE180

Marking: 2MKABLO [LOT NO] IEC 60092-376 FireKab BFOI (C) FE180 [No. of core and cross-section]150/250 V
IEC 60332-3-22 CE RoHS MM/YY [METER MARK]

Construction

Conductor: Stranded annealed plain or tinned copper wires (Class 2 or Class 5)

Fire Barrier: Mica Tape

Insulation: XLPE (Cross-linked polyethylene)

Lay-up: Cores stranded in layers

Separator: PET Foil

Overall Screen: AL/PET Foil + Tinned copper drain wire

Screen: Bare Copper Wire Braid

Sheath: Halogen Free Flame Retardant Compound (SHF1)

Cable Color: RAL2004-Orange or according to request

No of Elements(Pairs): 1, 2, 3, 4, 5, 7, 10, 12, 16, 19, 24, 27, 37 Cross-sectional area 0,5 / 0,75 / 1 / 1,5 / 2,5 mm²

No of Elements(Triads): 1, 2, 3, 4, 5, 7, 10 Cross-sectional area 0,5 / 0,75 / 1 / 1,5 / 2,5 mm²

No of Elements(Quads): 1, 2, 3, 4, 5, 7 Cross-sectional area 0,5 / 0,75 / 1 / 1,5 / 2,5 mm²

Reference documents : Test Report No: KE-00530618 (15/11/2019)

Reference Standards: IEC60092-350; IEC60092-360; IEC 60092-376; IEC60228; IEC60684-2; IEC60811; IEC 60332-3-22; IEC 60332-1-2; IEC 61034-1/2; IEC 60754-1/2; IEC 60331-21

ISTANBUL November 19, 2019