# FM2XAACH FE180



#### Areas of Use

Used for communication and instrumentation purpose in electronic systems of marine vehicles. Screening layer protects the transmitting signal against electromagnetic interferences. Halogen-Free and Flame Retardant construction ensure non-corrosive and highly visible environment during a fire. Also, min.180 minutes of circuit integrity under fire conditions is achieved by its special design.

#### **Cable Construction**

Conductor	Stranded Annealed Copper (IEC/EN 60228, Class 2) (tinned copper and/or Class 5 versions are available upon request)
Flame Barrier	Mica Tape
Insulation	XLPE (IEC 60092-360)
Core Colors	Pair: Black / White, Numbered Quad: Black / White / Red / Blue, Numbered
1. Separator	PET Foil
Individual Screen	AI-PET Foil (with Tinned Copper Drain Wire)
2. Separator	PET Foil
Lay-up	Shielded pairs / triples are stranded in layers
Separator	PET Foil
1. Overall Screen	AI-PET Foil (with Tinned Copper Drain Wire)
Separator	PET Foil (HFFR filler upon request)
2. Overall Screen	Annealed Copper Wire Braid (90% Coverage)
Outer Sheath	HFFR (IEC 60092-360 SHF1), RAL 6018 - Green
Reference Standards	IEC 60092-376

## **Technical Properties**

Operating Voltage150/250 (300) VTest Voltage1.5 kV (a.c) 3.6 kV (d.c)Conductor ResistanceIEC/EN 60228Insulation Resistance>5000 M.ΩxkmTemperature Range-40 °C+90 °CFlame RetardancyIEC/EN 60332-1-2, IEC/EN 60332-3-22 (CAT A)Fire ResistanceIEC 60331-21Smoke DensityIEC/EN 61034-1+2Amount of Halogen Acid GasIEC/EN 60754-1Corrosive Gases MeasurementIEC/EN 60754-2Min. Bending Radius (Fixed)8 x Cable Diameter		
Conductor Resistance       IEC/EN 60228         Insulation Resistance       >5000 M.Ωxkm         Temperature Range       -40 °C+90 °C         Flame Retardancy       IEC/EN 60332-1-2, IEC/EN 60332-3-22 (CAT A)         Fire Resistance       IEC 60331-21         Smoke Density       IEC/EN 61034-1+2         Amount of Halogen Acid Gas       IEC/EN 60754-1         Corrosive Gases Measurement       IEC/EN 60754-2	Operating Voltage	150/250 (300) V
Insulation Resistance >5000 M.Ωxkm  Temperature Range -40 °C+90 °C  Flame Retardancy IEC/EN 60332-1-2, IEC/EN 60332-3-22 (CAT A)  Fire Resistance IEC 60331-21  Smoke Density IEC/EN 61034-1+2  Amount of Halogen Acid Gas IEC/EN 60754-1  Corrosive Gases Measurement IEC/EN 60754-2	Test Voltage	1.5 kV (a.c) 3.6 kV (d.c)
Temperature Range -40 °C+90 °C  Flame Retardancy IEC/EN 60332-1-2, IEC/EN 60332-3-22 (CAT A)  Fire Resistance IEC 60331-21  Smoke Density IEC/EN 61034-1+2  Amount of Halogen Acid Gas IEC/EN 60754-1  Corrosive Gases Measurement IEC/EN 60754-2	Conductor Resistance	IEC/EN 60228
Flame Retardancy  IEC/EN 60332-1-2, IEC/EN 60332-3-22 (CAT A)  Fire Resistance  IEC 60331-21  Smoke Density  IEC/EN 61034-1+2  Amount of Halogen Acid Gas  IEC/EN 60754-1  Corrosive Gases Measurement  IEC/EN 60754-2	Insulation Resistance	>5000 M.Ωxkm
Fire Resistance IEC 60331-21  Smoke Density IEC/EN 61034-1+2  Amount of Halogen Acid Gas IEC/EN 60754-1  Corrosive Gases Measurement IEC/EN 60754-2	Temperature Range	-40 °C+90 °C
Smoke Density IEC/EN 61034-1+2  Amount of Halogen Acid Gas IEC/EN 60754-1  Corrosive Gases Measurement IEC/EN 60754-2	Flame Retardancy	IEC/EN 60332-1-2, IEC/EN 60332-3-22 (CAT A)
Amount of Halogen Acid Gas IEC/EN 60754-1  Corrosive Gases Measurement IEC/EN 60754-2	Fire Resistance	IEC 60331-21
Corrosive Gases Measurement IEC/EN 60754-2	Smoke Density	IEC/EN 61034-1+2
	Amount of Halogen Acid Gas	IEC/EN 60754-1
Min. Bending Radius (Fixed) 8 x Cable Diameter	Corrosive Gases Measurement	IEC/EN 60754-2
	Min. Bending Radius (Fixed)	8 x Cable Diameter

### 18.10.2025 19:30

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