

## 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

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

### Technical Properties

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

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