

## FM2XH(I) 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 ensures 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 5) (tinned copper and/or Class 2 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 (HFFR filler upon request)
<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

### Cross Section

Configuration / Cross-Section (mm/mm <sup>2</sup> )	Cable Diameter (mm) (± 5%)	Copper Weight (kg / km)	~ Cable Weight (kg / km)
2x2x0.5	11.4	26	111

2x2x0.5	11,4	26	111
2x3x0.5	12,6	35	141
2x3x0.5	12,6	35	141
2x4x0.5	14,7	45	175
2x4x0.5	14,7	45	175
3x2x0.5	12,2	38	142
3x2x0.5	12,2	38	142
3x3x0.5	13,4	53	183
3x3x0.5	13,4	53	183
3x4x0.5	15,7	67	229
3x4x0.5	15,7	67	229
4x2x0.5	13,4	51	176
4x2x0.5	13,4	51	176
4x3x0.5	14,8	70	228
4x3x0.5	14,8	70	228
4x4x0.5	17,4	89	288
4x4x0.5	17,4	89	288
2x2x0.75	12,9	38	142
2x2x0.75	12,9	38	142
2x3x0.75	14,4	53	183
2x3x0.75	14,4	53	183
2x4x0.75	16,7	67	228
2x4x0.75	16,7	67	228
3x2x0.75	13,8	58	184
3x2x0.75	13,8	58	184
3x3x0.75	15,3	79	239
3x3x0.75	15,3	79	239
3x4x0.75	18,0	101	302
3x4x0.75	18,0	101	302
4x2x0.75	15,2	77	230
4x2x0.75	15,2	77	230
4x3x0.75	17,0	106	302
4x3x0.75	17,0	106	302
2x2x1	13,5	53	165
2x2x1	13,5	53	165
2x3x1	15,1	73	212
2x3x1	15,1	73	212
2x4x1	17,6	92	266
2x4x1	17,6	92	266
3x2x1	14,4	80	217
3x2x1	14,4	80	217
3x3x1	16,1	109	282
3x3x1	16,1	109	282
3x4x1	18,8	139	355
3x4x1	18,8	139	355
4x2x1	15,9	107	273
4x2x1	15,9	107	273

4x3x1	17.9	146	358
4x3x1	17,9	146	358
2x2x1.5	15.3	71	206
2x2x1.5	15,3	71	206
2x3x1.5	17.1	100	269
2x3x1.5	17,1	100	269
2x4x1.5	19.9	128	341
2x4x1.5	19,9	128	341
3x2x1.5	16.4	107	272
3x2x1.5	16,4	107	272
3x3x1.5	18.3	150	362
3x3x1.5	18,3	150	362
3x4x1.5	21.4	193	460
3x4x1.5	21,4	193	460
4x2x1.5	18.1	143	344
4x2x1.5	18,1	143	344
4x3x1.5	20.2	200	461
4x3x1.5	20,2	200	461
2x2x2.5	16.9	109	264
2x2x2.5	16,9	109	264
2x3x2.5	18.9	154	350
2x3x2.5	18,9	154	350
2x4x2.5	22.0	200	447
2x4x2.5	22,0	200	447
3x2x2.5	18.0	163	354
3x2x2.5	18,0	163	354
3x3x2.5	20.2	232	476
3x3x2.5	20,2	232	476
3x4x2.5	23.7	301	611
3x4x2.5	23,7	301	611
4x2x2.5	20.0	217	451
4x2x2.5	20,0	217	451
4x3x2.5	22.4	309	611
4x3x2.5	22,4	309	611

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