

## FM2XAH 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>Lay-up</b>	Cores are twisted as pairs and pairs are stranded in layers
<b>Separator</b>	PET Foil
<b>Overall Screen</b>	Al-PET Foil (with Tinned Copper Drain Wire)
<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)
1x2x0.5	6.7	13	53
1x2x0.5	6,7	13	53
1x3x0.5	7.1	18	64

1x3x0.5	7,1	18	64
1x4x0.5	7.6	22	76
1x4x0.5	7,6	22	76
2x2x0.5	9.6	22	89
2x2x0.5	9,6	22	89
2x3x0.5	10.7	32	114
2x3x0.5	10,7	32	114
2x4x0.5	13.1	41	150
2x4x0.5	13,1	41	150
3x2x0.5	10.2	32	111
3x2x0.5	10,2	32	111
3x3x0.5	11.4	46	144
3x3x0.5	11,4	46	144
3x4x0.5	14.1	60	191
3x4x0.5	14,1	60	191
4x2x0.5	11.2	41	135
4x2x0.5	11,2	41	135
4x3x0.5	12.5	60	179
4x3x0.5	12,5	60	179
4x4x0.5	15.4	79	237
4x4x0.5	15,4	79	237
5x2x0.5	12.2	51	159
5x2x0.5	12,2	51	159
5x3x0.5	13.7	74	213
5x3x0.5	13,7	74	213
5x4x0.5	17.0	98	284
5x4x0.5	17,0	98	284
7x2x0.5	13.4	70	202
7x2x0.5	13,4	70	202
7x3x0.5	15.0	103	275
7x3x0.5	15,0	103	275
7x4x0.5	18.7	136	366
7x4x0.5	18,7	136	366
10x2x0.5	17.1	98	284
10x2x0.5	17,1	98	284
10x3x0.5	19.3	145	389
10x3x0.5	19,3	145	389
12x2x0.5	17.6	117	323
12x2x0.5	17,6	117	323
16x2x0.5	19.7	155	410
16x2x0.5	19,7	155	410
19x2x0.5	20.8	183	471
19x2x0.5	20,8	183	471
24x2x0.5	24.5	231	593
24x2x0.5	24,5	231	593
27x2x0.5	25.2	259	650

27x2x0.5	25,2	259	650
37x2x0.5	28.3	354	853
37x2x0.5	28,3	354	853
1x2x0.75	7.5	19	68
1x2x0.75	7,5	19	68
1x3x0.75	8.0	26	83
1x3x0.75	8,0	26	83
1x4x0.75	8.6	34	100
1x4x0.75	8,6	34	100
2x2x0.75	11.0	34	116
2x2x0.75	11,0	34	116
2x3x0.75	12.3	48	151
2x3x0.75	12,3	48	151
2x4x0.75	15.2	62	198
2x4x0.75	15,2	62	198
3x2x0.75	11.7	48	146
3x2x0.75	11,7	48	146
3x3x0.75	13.1	70	194
3x3x0.75	13,1	70	194
3x4x0.75	16.3	91	257
3x4x0.75	16,3	91	257
4x2x0.75	12.8	62	179
4x2x0.75	12,8	62	179
4x3x0.75	14.4	91	241
4x3x0.75	14,4	91	241
4x4x0.75	17.9	120	321
4x4x0.75	17,9	120	321
5x2x0.75	14.1	77	214
5x2x0.75	14,1	77	214
5x3x0.75	15.9	113	290
5x3x0.75	15,9	113	290
5x4x0.75	19.8	149	386
5x4x0.75	19,8	149	386
7x2x0.75	15.4	106	274
7x2x0.75	15,4	106	274
7x3x0.75	17.4	156	377
7x3x0.75	17,4	156	377
7x4x0.75	21.8	207	504
7x4x0.75	21,8	207	504
10x2x0.75	19.9	149	388
10x2x0.75	19,9	149	388
10x3x0.75	22.4	221	536
10x3x0.75	22,4	221	536
12x2x0.75	20.6	178	443
12x2x0.75	20,6	178	443
16x2x0.75	23.0	235	565

16x2x0.75	23,0	235	565
19x2x0.75	24.3	279	653
19x2x0.75	24,3	279	653
24x2x0.75	28.8	351	824
24x2x0.75	28,8	351	824
27x2x0.75	29.4	394	905
27x2x0.75	29,4	394	905
37x2x0.75	33.2	538	1196
37x2x0.75	33,2	538	1196
1x2x1	7.9	27	78
1x2x1	7,9	27	78
1x3x1	8.3	36	97
1x3x1	8,3	36	97
1x4x1	9.2	46	117
1x4x1	9,2	46	117
2x2x1	11.7	46	135
2x2x1	11,7	46	135
2x3x1	13.0	66	177
2x3x1	13,0	66	177
2x4x1	16.2	85	233
2x4x1	16,2	85	233
3x2x1	12.4	66	171
3x2x1	12,4	66	171
3x3x1	13.9	95	229
3x3x1	13,9	95	229
3x4x1	17.2	124	304
3x4x1	17,2	124	304
4x2x1	13.7	85	212
4x2x1	13,7	85	212
4x3x1	15.3	124	287
4x3x1	15,3	124	287
4x4x1	19.1	163	382
4x4x1	19,1	163	382
5x2x1	14.9	105	253
5x2x1	14,9	105	253
5x3x1	16.8	153	346
5x3x1	16,8	153	346
5x4x1	21.1	202	461
5x4x1	21,1	202	461
7x2x1	16.4	144	327
7x2x1	16,4	144	327
7x3x1	18.5	212	452
7x3x1	18,5	212	452
7x4x1	23.2	280	604
7x4x1	23,2	280	604
10x2x1	21.1	202	462

10x2x1	21,1	202	462
10x3x1	23,9	299	642
10x3x1	23,9	299	642
12x2x1	21,9	241	531
12x2x1	21,9	241	531
16x2x1	24,4	319	679
16x2x1	24,4	319	679
19x2x1	25,9	377	785
19x2x1	25,9	377	785
24x2x1	30,6	474	993
24x2x1	30,6	474	993
27x2x1	31,3	533	1093
27x2x1	31,3	533	1093
37x2x1	35,4	728	1450
37x2x1	35,4	728	1450
1x2x1.5	8,9	36	98
1x2x1.5	8,9	36	98
1x3x1.5	9,5	50	123
1x3x1.5	9,5	50	123
1x4x1.5	10,3	64	151
1x4x1.5	10,3	64	151
2x2x1.5	13,3	64	174
2x2x1.5	13,3	64	174
2x3x1.5	14,8	93	229
2x3x1.5	14,8	93	229
2x4x1.5	18,5	121	304
2x4x1.5	18,5	121	304
3x2x1.5	14,1	93	224
3x2x1.5	14,1	93	224
3x3x1.5	15,9	135	303
3x3x1.5	15,9	135	303
3x4x1.5	19,8	178	403
3x4x1.5	19,8	178	403
4x2x1.5	15,6	121	279
4x2x1.5	15,6	121	279
4x3x1.5	17,5	178	382
4x3x1.5	17,5	178	382
4x4x1.5	21,9	235	511
4x4x1.5	21,9	235	511
5x2x1.5	17,1	150	335
5x2x1.5	17,1	150	335
5x3x1.5	19,3	221	464
5x3x1.5	19,3	221	464
5x4x1.5	24,2	292	621
5x4x1.5	24,2	292	621
7x2x1.5	18,8	207	437

7x2x1.5	18,8	207	437
7x3x1.5	21,2	306	611
7x3x1.5	21,2	306	611
7x4x1.5	26,7	406	819
7x4x1.5	26,7	406	819
10x2x1.5	24,3	292	622
10x2x1.5	24,3	292	622
10x3x1.5	27,6	434	873
10x3x1.5	27,6	434	873
12x2x1.5	25,3	349	717
12x2x1.5	25,3	349	717
16x2x1.5	28,2	463	924
16x2x1.5	28,2	463	924
19x2x1.5	29,9	548	1074
19x2x1.5	29,9	548	1074
24x2x1.5	35,4	690	1358
24x2x1.5	35,4	690	1358
27x2x1.5	36,3	776	1499
27x2x1.5	36,3	776	1499
37x2x1.5	41,1	1061	1997
37x2x1.5	41,1	1061	1997
1x2x2.5	9,8	54	125
1x2x2.5	9,8	54	125
1x3x2.5	10,4	77	161
1x3x2.5	10,4	77	161
1x4x2.5	11,4	100	201
1x4x2.5	11,4	100	201
2x2x2.5	14,7	100	226
2x2x2.5	14,7	100	226
2x3x2.5	16,5	146	305
2x3x2.5	16,5	146	305
2x4x2.5	20,7	192	406
2x4x2.5	20,7	192	406
3x2x2.5	15,7	146	298
3x2x2.5	15,7	146	298
3x3x2.5	17,7	215	411
3x3x2.5	17,7	215	411
3x4x2.5	22,1	284	547
3x4x2.5	22,1	284	547
4x2x2.5	17,3	192	376
4x2x2.5	17,3	192	376
4x3x2.5	19,5	284	523
4x3x2.5	19,5	284	523
4x4x2.5	24,6	375	699
4x4x2.5	24,6	375	699
5x2x2.5	19,1	238	455

5x2x2.5	19,1	238	455
5x3x2.5	21.5	352	636
5x3x2.5	21,5	352	636
5x4x2.5	27.2	467	854
5x4x2.5	27,2	467	854
7x2x2.5	21.0	329	600
7x2x2.5	21,0	329	600
7x3x2.5	23.7	490	849
7x3x2.5	23,7	490	849
7x4x2.5	29.9	650	1139
7x4x2.5	29,9	650	1139
10x2x2.5	27.3	467	855
10x2x2.5	27,3	467	855
10x3x2.5	30.9	696	1214
10x3x2.5	30,9	696	1214
12x2x2.5	28.2	559	993
12x2x2.5	28,2	559	993
16x2x2.5	31.7	742	1287
16x2x2.5	31,7	742	1287
19x2x2.5	33.6	880	1500
19x2x2.5	33,6	880	1500
24x2x2.5	39.8	1109	1900
24x2x2.5	39,8	1109	1900
27x2x2.5	40.8	1247	2104
27x2x2.5	40,8	1247	2104
37x2x2.5	46.1	1705	2817
37x2x2.5	46,1	1705	2817

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