

## FM2XH FE180



### Areas of Use

Used as fixed installation cable in marine vehicles, Halogen Free and Flame Retardant construction ensures non-corrosive and highly visible environment during fire. In addition, 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 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)
2x0.5	6.5	9	52
2x0.5	6,5	9	52
3x0.5	6.8	14	57
3x0.5	6,8	14	57
4x0.5	7.4	19	68

4x0.5	7,4	19	68
5x0.5	8.1	24	83
5x0.5	8,1	24	83
7x0.5	8.8	33	103
7x0.5	8,8	33	103
10x0.5	11.1	47	146
10x0.5	11,1	47	146
12x0.5	11.5	57	165
12x0.5	11,5	57	165
14x0.5	12.1	66	187
14x0.5	12,1	66	187
16x0.5	12.8	76	211
16x0.5	12,8	76	211
19x0.5	13.5	90	241
19x0.5	13,5	90	241
20x0.5	14.2	95	261
20x0.5	14,2	95	261
24x0.5	15.8	114	304
24x0.5	15,8	114	304
27x0.5	16.1	128	332
27x0.5	16,1	128	332
32x0.5	17.4	152	389
32x0.5	17,4	152	389
37x0.5	18.2	175	437
37x0.5	18,2	175	437
2x0.75	7.3	14	66
2x0.75	7,3	14	66
3x0.75	7.8	22	73
3x0.75	7,8	22	73
4x0.75	8.5	29	91
4x0.75	8,5	29	91
5x0.75	9.3	36	112
5x0.75	9,3	36	112
7x0.75	10.1	50	139
7x0.75	10,1	50	139
10x0.75	12.9	72	197
10x0.75	12,9	72	197
12x0.75	13.3	86	226
12x0.75	13,3	86	226
14x0.75	14.0	101	256
14x0.75	14,0	101	256
16x0.75	14.8	115	292
16x0.75	14,8	115	292
19x0.75	15.7	137	333
19x0.75	15,7	137	333
20x0.75	16.6	144	361

20x0.75	16,6	144	361
24x0.75	18,5	173	421
24x0.75	18,5	173	421
27x0.75	18,9	195	463
27x0.75	18,9	195	463
32x0.75	20,4	231	544
32x0.75	20,4	231	544
37x0.75	21,3	267	611
37x0.75	21,3	267	611
2x1.5	8.7	28	98
2x1.5	8,7	28	98
3x1.5	9.3	43	112
3x1.5	9,3	43	112
4x1.5	10.2	57	140
4x1.5	10,2	57	140
5x1.5	11.2	71	175
5x1.5	11,2	71	175
7x1.5	12.2	100	221
7x1.5	12,2	100	221
10x1.5	15.7	142	316
10x1.5	15,7	142	316
12x1.5	16.3	171	365
12x1.5	16,3	171	365
14x1.5	17.1	199	417
14x1.5	17,1	199	417
16x1.5	18.1	228	475
16x1.5	18,1	228	475
19x1.5	19.2	270	546
19x1.5	19,2	270	546
20x1.5	20.3	285	591
20x1.5	20,3	285	591
24x1.5	22.7	342	692
24x1.5	22,7	342	692
27x1.5	23.1	384	764
27x1.5	23,1	384	764
32x1.5	25.1	455	901
32x1.5	25,1	455	901
37x1.5	26.1	527	1017
37x1.5	26,1	527	1017
2x2.5	9.6	46	128
2x2.5	9,6	46	128
3x2.5	10.2	69	149
3x2.5	10,2	69	149
4x2.5	11.3	92	189
4x2.5	11,3	92	189
5x2.5	12.4	115	237

5x2.5	12,4	115	237
7x2.5	13.6	161	303
7x2.5	13,6	161	303
10x2.5	17.5	229	434
10x2.5	17,5	229	434
12x2.5	18.1	275	504
12x2.5	18,1	275	504
14x2.5	19.2	321	577
14x2.5	19,2	321	577
16x2.5	20.2	367	661
16x2.5	20,2	367	661
19x2.5	21.4	436	761
19x2.5	21,4	436	761
20x2.5	22.7	459	822
20x2.5	22,7	459	822
24x2.5	25.4	550	966
24x2.5	25,4	550	966
27x2.5	25.9	619	1069
27x2.5	25,9	619	1069
32x2.5	28.1	734	1264
32x2.5	28,1	734	1264
37x2.5	29.3	848	1431
37x2.5	29,3	848	1431

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