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

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
Lay-up	Cores are stranded in layers
Separator	PET Foil (HFFR filler upon request)
Outer Sheath	HFFR (IEC 60092-360 SHF1), RAL 6018 - Green
Reference Standards	IEC 60092-376

Technical Properties

Operating Voltage	150/250 (300) V
Test Voltage	1.5 kV (a.c) 3.6 kV (d.c)
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
Min. Bending Radius (Fixed)	8 x Cable Diameter

Cross Section

Configuration / Cross-Section (mm/mm²)	Cable Diameter (mm) (± 5%)	Copper Weight (kg / km)	~ Cable Weight (kg / km)
2x0.5	6.5	9	52
3x0.5	6.8	14	57
4x0.5	7.4	19	68
5x0.5	8.1	24	83
7x0.5	8.8	33	103

10x0.5	11.1	47	146
12x0.5	11.5	57	165
14x0.5	12.1	66	187
16x0.5	12.8	76	211
19x0.5	13.5	90	241
20x0.5	14.2	95	261
24x0.5	15.8	114	304
27x0.5	16.1	128	332
32x0.5	17.4	152	389
37x0.5	18.2	175	437
2x0.75	7.3	14	66
3x0.75	7.8	22	73
4x0.75	8.5	29	91
5x0.75	9.3	36	112
7x0.75	10.1	50	139
10x0.75	12.9	72	197
12x0.75	13.3	86	226
14x0.75	14.0	101	256
16x0.75	14.8	115	292
19x0.75	15.7	137	333
20x0.75	16.6	144	361
24x0.75	18.5	173	421
27x0.75	18.9	195	463
32x0.75	20.4	231	544
37x0.75	21.3	267	611
2x1.5	8.7	28	98
3x1.5	9.3	43	112
4x1.5	10.2	57	140
5x1.5	11.2	71	175
7x1.5	12.2	100	221
10x1.5	15.7	142	316
12x1.5	16.3	171	365
14x1.5	17.1	199	417
16x1.5	18.1	228	475
19x1.5	19.2	270	546
20x1.5	20.3	285	591
24x1.5	22.7	342	692
27x1.5	23.1	384	764
32x1.5	25.1	455	901
37x1.5	26.1	527	1017
2x2.5	9.6	46	128
3x2.5	10.2	69	149
4x2.5	11.3	92	189
5x2.5	12.4	115	237
7x2.5	13.6	161	303
10x2.5	17.5	229	434

12x2.5	18.1	275	504
14x2.5	19.2	321	577
16x2.5	20.2	367	661
19x2.5	21.4	436	761
20x2.5	22.7	459	822
24x2.5	25.4	550	966
27x2.5	25.9	619	1069
32x2.5	28.1	734	1264
37x2.5	29.3	848	1431

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