FM2XCCH 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

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
1. Separator	PET Foil
Individual Screen	Al-PET Foil (with Tinned Copper Drain Wire)
2. Separator	PET Foil
Lay-up	Shielded pairs / triples are stranded in layers
Separator	PET Foil (HFFR filler upon request)
Overall Screen	Annealed Copper Wire Braiding (90% Coverage)
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	Cable Diameter (mm) (± 5%)	Copper Weight (kg / km)	~ Cable Weight (kg / km)

(mm/mm²)			
2x2x0.5	12.3	70	162
2x3x0.5	13.5	84	196
2x4x0.5	16.1	133	278
3x2x0.5	13.1	86	197
3x3x0.5	14.4	105	243
3x4x0.5	17.2	162	339
4x2x0.5	14.4	103	237
4x3x0.5	16.2	159	330
4x4x0.5	18.9	195	412
5x2x0.5	16.2	152	314
5x3x0.5	17.7	186	388
5x4x0.5	20.7	228	487
7x2x0.5	17.6	187	387
7x3x0.5	19.3	233	487
7x4x0.5	22.6	284	610
10x2x0.5	22.5	255	542
10x3x0.5	24.7	318	682
12x2x0.5	23.2	285	604
16x2x0.5	25.9	353	753
19x2x0.5	27.3	401	856
24x2x0.5	32.2	494	1074
27x2x0.5	32.8	542	1170
37x2x0.5	37.0	696	1511
2x2x0.75	13.8	88	199
2x3x0.75	15.8	140	282
2x4x0.75	18.2	169	347
3x2x0.75	14.8	112	247
3x3x0.75	16.7	173	346
3x4x0.75	19.5	210	431
4x2x0.75	16.6	169	336
4x3x0.75	18.4	209	422
4x4x0.75	21.4	256	526
5x2x0.75	18.2	197	396
5x3x0.75	20.2	247	500
5x4x0.75	23.6	303	627
7x2x0.75	19.9	246	494
7x3x0.75	22.1	312	631
7x4x0.75	25.8	384	794
10x2x0.75	25.5	339	697
10x3x0.75	28.4	430	892
12x2x0.75	26.4	382	783
16x2x0.75	29.4	482	985
19x2x0.75	31.1	548	1122
24x2x0.75	36.7	679	1414
27x2x0.75	37.5	739	1534
37x2x0.75	42.8	1050	2093

2x2x1	14.5	107	226
2x3x1	16.5	164	317
2x4x1	19.1	200	392
3x2x1	15.8	168	317
3x3x1	17.6	208	396
3x4x1	20.4	255	493
4x2x1	17.4	204	385
4x3x1	19.4	255	486
4x4x1	22.5	314	608
5x2x1	19.0	242	456
5x3x1	21.2	303	578
5x4x1	24.7	373	725
7x2x1	20.8	305	572
7x3x1	23.2	389	736
7x4x1	27.1	481	926
10x2x1	26.7	423	810
10x3x1	30.0	545	1048
12x2x1	27.6	483	916
16x2x1	30.8	609	1154
19x2x1	32.5	701	1323
24x2x1	38.4	871	1668
27x2x1	39.4	960	1826
37x2x1	44.7	1348	2480
2x2x1.5	16.8	167	318
2x3x1.5	18.6	209	395
2x4x1.5	21.5	257	493
3x2x1.5	17.9	210	393
3x3x1.5	19.9	267	498
3x4x1.5	23.0	330	625
4x2x1.5	19.6	257	480
4x3x1.5	21.8	329	614
4x4x1.5	25.3	409	773
5x2x1.5	21.6	306	570
5x3x1.5	24.0	394	735
5x4x1.5	27.9	492	929
7x2x1.5	23.6	390	721
7x3x1.5	26.3	509	940
7x4x1.5	30.7	637	1195
10x2x1.5	30.5	548	1033
10x3x1.5	34.1	711	1345
12x2x1.5	31.6	621	1166
16x2x1.5	35.3	790	1477
19x2x1.5	37.4	908	1693
24x2x1.5	44.7	1225	2245
27x2x1.5	45.6	1341	2447
37x2x1.5	51.5	1747	3188

2x2x2.5	18.4	216	389
2x3x2.5	20.4	276	493
2x4x2.5	23.6	343	617
3x2x2.5	19.6	278	489
3x3x2.5	21.8	362	631
3x4x2.5	25.3	454	798
4x2x2.5	21.6	345	603
4x3x2.5	24.1	454	786
4x4x2.5	28.0	571	996
5x2x2.5	23.6	414	721
5x3x2.5	26.4	547	945
5x4x2.5	30.8	690	1203
7x2x2.5	26.0	538	925
7x3x2.5	29.1	718	1225
7x4x2.5	33.9	913	1567
10x2x2.5	33.6	750	1316
10x3x2.5	37.8	1012	1757
12x2x2.5	34.7	874	1509
16x2x2.5	38.9	1111	1916
19x2x2.5	41.6	1378	2308
24x2x2.5	49.2	1716	2915
27x2x2.5	50.4	1890	3191
37x2x2.5	56.9	2490	4187

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