FM2XH(I)



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.

Cable Construction

Conductor	Stranded Annealed Copper (IEC/EN 60228, Class 2) (tinned copper and/or Class 5 versions are available upon request)
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)
Outer Sheath	HFFR (IEC 60092-360 SHF1), RAL 9005 - Black or RAL 7001 - Grey
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)
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)
2x2x0.5	8.7	26	79
2x3x0.5	9.7	35	99
2x4x0.5	11.0	45	121

3x2x0.5	9.2	38	100
3x3x0.5	10.2	53	127
3x4x0.5	11.7	67	158
4x2x0.5	10.1	51	125
4x3x0.5	11.3	70	159
4x4x0.5	12.8	89	197
5x2x0.5	11.1	64	149
5x3x0.5	12.3	88	191
5x4x0.5	14.1	111	238
7x2x0.5	12.0	89	192
7x3x0.5	13.5	123	249
7x4x0.5	15.5	156	312
10x2x0.5	15.4	128	272
10x3x0.5	17.3	175	354
12x2x0.5	16.0	153	312
16x2x0.5	17.8	205	399
19x2x0.5	18.7	243	462
24x2x0.5	22.1	307	582
27x2x0.5	22.6	345	641
37x2x0.5	25.4	473	850
2x2x0.75	10.2	38	107
2x3x0.75	11.4	53	135
2x4x0.75	13.0	67	167
3x2x0.75	10.8	58	138
3x3x0.75	12.2	79	177
3x4x0.75	14.0	101	221
4x2x0.75	11.9	77	172
4x3x0.75	13.4	106	223
4x4x0.75	15.3	134	279
5x2x0.75	13.0	96	207
5x3x0.75	14.7	132	270
5x4x0.75	16.9	168	339
7x2x0.75	14.3	134	270
7x3x0.75	16.2	185	356
7x4x0.75	18.6	235	447
10x2x0.75	18.4	192	384
10x3x0.75	20.9	264	506
12x2x0.75	19.0	230	443
16x2x0.75	21.2	307	570
19x2x0.75	22.5	365	661
24x2x0.75	26.5	461	836
27x2x0.75	27.2	518	924
37x2x0.75	30.6	710	1230
2x2x1	10.9	53	128
2x3x1	12.2	73	163
2x4x1	14.1	92	203

3x2x1	11.6	80	168
3x3x1	13.0	109	217
3x4x1	15.0	139	271
4x2x1	12.8	107	211
4x3x1	14.4	146	275
4x4x1	16.7	185	346
5x2x1	14.1	134	256
5x3x1	15.8	182	334
5x4x1	18.4	231	420
7x2x1	15.3	187	336
7x3x1	17.3	255	443
7x4x1	20.1	323	558
10x2x1	19.8	267	479
10x3x1	22.4	364	632
12x2x1	20.6	321	555
16x2x1	23.0	427	719
19x2x1	24.3	508	837
24x2x1	28.8	641	1058
27x2x1	29.5	721	1171
37x2x1	33.2	988	1565
2x2x1.5	12.6	71	165
2x3x1.5	14.2	100	214
2x4x1.5	16.4	128	270
3x2x1.5	13.5	107	219
3x3x1.5	15.1	150	288
3x4x1.5	17.6	193	365
4x2x1.5	14.8	143	276
4x3x1.5	16.7	200	367
4x4x1.5	19.4	257	466
5x2x1.5	16.3	179	335
5x3x1.5	18.5	250	447
5x4x1.5	21.5	321	571
7x2x1.5	17.9	250	443
7x3x1.5	20.3	350	596
7x4x1.5	23.6	449	760
10x2x1.5	23.2	357	634
10x3x1.5	26.3	499	853
12x2x1.5	24.1	429	737
16x2x1.5	27.0	571	956
19x2x1.5	28.6	679	1115
24x2x1.5	33.9	857	1413
27x2x1.5	34.6	964	1565
37x2x1.5	39.1	1321	2095
2x2x2.5	14.3	109	219
2x3x2.5	16.0	154	289
2x4x2.5	18.5	200	368

3x2x2.5	15.2	163	294
3x3x2.5	17.0	232	395
3x4x2.5	19.9	301	505
4x2x2.5	16.8	217	375
4x3x2.5	18.9	309	507
4x4x2.5	22.0	401	649
5x2x2.5	18.6	272	458
5x3x2.5	20.8	386	620
5x4x2.5	24.4	501	797
7x2x2.5	20.4	380	610
7x3x2.5	22.9	541	833
7x4x2.5	26.8	701	1073
10x2x2.5	26.6	543	875
10x3x2.5	29.9	772	1197
12x2x2.5	27.6	652	1022
16x2x2.5	30.9	869	1331
19x2x2.5	32.7	1032	1556
24x2x2.5	38.9	1304	1973
27x2x2.5	39.8	1466	2190
37x2x2.5	45.0	2010	2942

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