

## FM2XCH



### 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

<b>Conductor</b>	Stranded Annealed Copper (IEC/EN 60228, Class 2) (tinned copper and/or Class 5 versions are available upon request)
<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 / pairs / triples / quads are stranded in layers
<b>Separator</b>	PET Foil (HFFR filler upon request)
<b>Overall Screen</b>	Annealed Copper Wire Braiding (90% Coverage)
<b>Outer Sheath</b>	HFFR (IEC 60092-360 SHF1), RAL 9005 - Black or RAL 7001 - Grey
<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>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	6.1	30	66
1x2x0.5	6,1	30	66
1x3x0.5	6.4	37	72
1x3x0.5	6,4	37	72

1x4x0.5	6.8	43	83
1x4x0.5	6,8	43	83
2x2x0.5	8.4	53	103
2x2x0.5	8,4	53	103
2x3x0.5	9.3	65	125
2x3x0.5	9,3	65	125
2x4x0.5	11.2	84	163
2x4x0.5	11,2	84	163
3x2x0.5	8.9	63	120
3x2x0.5	8,9	63	120
3x3x0.5	9.8	83	153
3x3x0.5	9,8	83	153
3x4x0.5	12.0	107	198
3x4x0.5	12,0	107	198
4x2x0.5	9.7	77	143
4x2x0.5	9,7	77	143
4x3x0.5	10.8	100	182
4x3x0.5	10,8	100	182
4x4x0.5	13.4	163	275
4x4x0.5	13,4	163	275
5x2x0.5	10.5	90	168
5x2x0.5	10,5	90	168
5x3x0.5	11.7	121	216
5x3x0.5	11,7	121	216
5x4x0.5	14.6	189	322
5x4x0.5	14,6	189	322
7x2x0.5	11.4	113	204
7x2x0.5	11,4	113	204
7x3x0.5	13.0	153	267
7x3x0.5	13,0	153	267
7x4x0.5	16.0	240	397
7x4x0.5	16,0	240	397
10x2x0.5	14.7	189	320
10x2x0.5	14,7	189	320
10x3x0.5	16.4	252	417
10x3x0.5	16,4	252	417
12x2x0.5	15.1	212	355
12x2x0.5	15,1	212	355
16x2x0.5	16.7	265	439
16x2x0.5	16,7	265	439
19x2x0.5	17.7	295	487
19x2x0.5	17,7	295	487
24x2x0.5	20.6	372	614
24x2x0.5	20,6	372	614
27x2x0.5	21.1	404	663
27x2x0.5	21,1	404	663

37x2x0.5	23.6	518	842
37x2x0.5	23,6	518	842
1x2x0.75	6.9	39	83
1x2x0.75	6,9	39	83
1x3x0.75	7.4	48	92
1x3x0.75	7,4	48	92
1x4x0.75	7.9	58	109
1x4x0.75	7,9	58	109
2x2x0.75	9.8	68	132
2x2x0.75	9,8	68	132
2x3x0.75	11.0	87	165
2x3x0.75	11,0	87	165
2x4x0.75	13.6	143	251
2x4x0.75	13,6	143	251
3x2x0.75	10.5	84	159
3x2x0.75	10,5	84	159
3x3x0.75	11.6	112	204
3x3x0.75	11,6	112	204
3x4x0.75	14.5	180	307
3x4x0.75	14,5	180	307
4x2x0.75	11.4	104	191
4x2x0.75	11,4	104	191
4x3x0.75	12.7	140	249
4x3x0.75	12,7	140	249
4x4x0.75	15.9	220	370
4x4x0.75	15,9	220	370
5x2x0.75	12.5	124	229
5x2x0.75	12,5	124	229
5x3x0.75	14.1	199	333
5x3x0.75	14,1	199	333
5x4x0.75	17.5	261	441
5x4x0.75	17,5	261	441
7x2x0.75	13.8	190	315
7x2x0.75	13,8	190	315
7x3x0.75	15.4	250	410
7x3x0.75	15,4	250	410
7x4x0.75	19.1	326	543
7x4x0.75	19,1	326	543
10x2x0.75	17.6	258	436
10x2x0.75	17,6	258	436
10x3x0.75	19.7	349	577
10x3x0.75	19,7	349	577
12x2x0.75	18.1	290	485
12x2x0.75	18,1	290	485
16x2x0.75	20.1	365	606
16x2x0.75	20,1	365	606

19x2x0.75	21.2	419	686
19x2x0.75	21,2	419	686
24x2x0.75	25.0	513	853
24x2x0.75	25,0	513	853
27x2x0.75	25.5	560	924
27x2x0.75	25,5	560	924
37x2x0.75	28.6	727	1187
37x2x0.75	28,6	727	1187
1x2x1	7.4	46	94
1x2x1	7,4	46	94
1x3x1	7.8	58	105
1x3x1	7,8	58	105
1x4x1	8.4	70	125
1x4x1	8,4	70	125
2x2x1	10.5	80	150
2x2x1	10,5	80	150
2x3x1	11.6	106	191
2x3x1	11,6	106	191
2x4x1	14.6	172	290
2x4x1	14,6	172	290
3x2x1	11.1	103	184
3x2x1	11,1	103	184
3x3x1	12.4	138	238
3x3x1	12,4	138	238
3x4x1	15.5	216	355
3x4x1	15,5	216	355
4x2x1	12.2	129	225
4x2x1	12,2	129	225
4x3x1	13.8	204	327
4x3x1	13,8	204	327
4x4x1	17.0	270	436
4x4x1	17,0	270	436
5x2x1	13.6	184	302
5x2x1	13,6	184	302
5x3x1	15.1	244	392
5x3x1	15,1	244	392
5x4x1	18.7	315	514
5x4x1	18,7	315	514
7x2x1	14.8	231	369
7x2x1	14,8	231	369
7x3x1	16.5	313	489
7x3x1	16,5	313	489
7x4x1	20.5	413	652
7x4x1	20,5	413	652
10x2x1	18.7	319	516
10x2x1	18,7	319	516

10x3x1	21.1	430	683
10x3x1	21,1	430	683
12x2x1	19.4	359	575
12x2x1	19,4	359	575
16x2x1	21.6	459	727
16x2x1	21,6	459	727
19x2x1	22.8	523	820
19x2x1	22,8	523	820
24x2x1	26.9	650	1030
24x2x1	26,9	650	1030
27x2x1	27.4	710	1115
27x2x1	27,4	710	1115
37x2x1	30.9	927	1441
37x2x1	30,9	927	1441
1x2x1.5	8.3	60	120
1x2x1.5	8,3	60	120
1x3x1.5	8.9	77	136
1x3x1.5	8,9	77	136
1x4x1.5	9.6	95	164
1x4x1.5	9,6	95	164
2x2x1.5	12.2	107	196
2x2x1.5	12,2	107	196
2x3x1.5	13.8	177	291
2x3x1.5	13,8	177	291
2x4x1.5	17.0	226	380
2x4x1.5	17,0	226	380
3x2x1.5	13.2	140	245
3x2x1.5	13,2	140	245
3x3x1.5	14.7	226	361
3x3x1.5	14,7	226	361
3x4x1.5	18.1	290	473
3x4x1.5	18,1	290	473
4x2x1.5	14.5	209	338
4x2x1.5	14,5	209	338
4x3x1.5	16.2	276	439
4x3x1.5	16,2	276	439
4x4x1.5	20.1	363	584
4x4x1.5	20,1	363	584
5x2x1.5	15.8	248	402
5x2x1.5	15,8	248	402
5x3x1.5	17.7	330	526
5x3x1.5	17,7	330	526
5x4x1.5	22.1	437	703
5x4x1.5	22,1	437	703
7x2x1.5	17.3	316	499
7x2x1.5	17,3	316	499

7x3x1.5	19.4	432	668
7x3x1.5	19,4	432	668
7x4x1.5	24.2	566	889
7x4x1.5	24,2	566	889
10x2x1.5	22.1	437	700
10x2x1.5	22,1	437	700
10x3x1.5	25.0	598	939
10x3x1.5	25,0	598	939
12x2x1.5	22.9	552	848
12x2x1.5	22,9	552	848
16x2x1.5	25.5	630	991
16x2x1.5	25,5	630	991
19x2x1.5	27.0	727	1130
19x2x1.5	27,0	727	1130
24x2x1.5	31.9	905	1423
24x2x1.5	31,9	905	1423
27x2x1.5	32.6	993	1550
27x2x1.5	32,6	993	1550
37x2x1.5	36.7	1397	2116
37x2x1.5	36,7	1397	2116
1x2x2.5	9.3	82	153
1x2x2.5	9,3	82	153
1x3x2.5	9.8	108	177
1x3x2.5	9,8	108	177
1x4x2.5	10.7	135	216
1x4x2.5	10,7	135	216
2x2x2.5	13.9	181	290
2x2x2.5	13,9	181	290
2x3x2.5	15.5	241	376
2x3x2.5	15,5	241	376
2x4x2.5	19.2	316	499
2x4x2.5	19,2	316	499
3x2x2.5	14.8	232	360
3x2x2.5	14,8	232	360
3x3x2.5	16.5	319	480
3x3x2.5	16,5	319	480
3x4x2.5	20.5	412	631
3x4x2.5	20,5	412	631
4x2x2.5	16.2	289	441
4x2x2.5	16,2	289	441
4x3x2.5	18.2	399	593
4x3x2.5	18,2	399	593
4x4x2.5	22.6	521	787
4x4x2.5	22,6	521	787
5x2x2.5	17.8	348	532
5x2x2.5	17,8	348	532

5x3x2.5	20.1	481	716
5x3x2.5	20,1	481	716
5x4x2.5	25.0	629	949
5x4x2.5	25,0	629	949
7x2x2.5	19.5	454	672
7x2x2.5	19,5	454	672
7x3x2.5	21.9	633	915
7x3x2.5	21,9	633	915
7x4x2.5	27.5	830	1221
7x4x2.5	27,5	830	1221
10x2x2.5	25.1	630	947
10x2x2.5	25,1	630	947
10x3x2.5	28.3	883	1297
10x3x2.5	28,3	883	1297
12x2x2.5	26.0	795	1151
12x2x2.5	26,0	795	1151
16x2x2.5	29.0	933	1372
16x2x2.5	29,0	933	1372
19x2x2.5	30.7	1083	1572
19x2x2.5	30,7	1083	1572
24x2x2.5	36.3	1453	2093
24x2x2.5	36,3	1453	2093
27x2x2.5	37.2	1595	2281
27x2x2.5	37,2	1595	2281
37x2x2.5	41.9	2091	2969
37x2x2.5	41,9	2091	2969

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