

FM2XCSH 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
Inner Sheath	HFFR
Overall Screen	Galvanised Steel Wire Braid
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)
2x2x0.5	12.8	26	183
2x2x0.5	12,8	26	183
2x3x0.5	14.0	35	218
2x3x0.5	14,0	35	218
2x4x0.5	16.1	45	270
2x4x0.5	16,1	45	270
3x2x0.5	13.5	38	217
3x2x0.5	13,5	38	217
3x3x0.5	14.8	53	266
3x3x0.5	14,8	53	266
3x4x0.5	17.2	67	330
3x4x0.5	17,2	67	330
4x2x0.5	14.8	51	260
4x2x0.5	14,8	51	260
4x3x0.5	16.2	70	322
4x3x0.5	16,2	70	322
4x4x0.5	18.9	89	402
4x4x0.5	18,9	89	402
5x2x0.5	16.2	64	306
5x2x0.5	16,2	64	306
5x3x0.5	17.7	88	379
5x3x0.5	17,7	88	379
5x4x0.5	20.7	111	476
5x4x0.5	20,7	111	476
7x2x0.5	17.6	89	378
7x2x0.5	17,6	89	378
7x3x0.5	19.3	123	476
7x3x0.5	19,3	123	476
7x4x0.5	22.6	156	599
7x4x0.5	22,6	156	599
10x2x0.5	22.5	128	530
10x2x0.5	22,5	128	530
10x3x0.5	24.7	175	670
10x3x0.5	24,7	175	670
12x2x0.5	23.2	153	593
12x2x0.5	23,2	153	593
16x2x0.5	25.9	205	740
16x2x0.5	25,9	205	740
19x2x0.5	27.3	243	842
19x2x0.5	27,3	243	842
24x2x0.5	32.2	307	1059
24x2x0.5	32,2	307	1059
27x2x0.5	32.8	345	1150
27x2x0.5	32,8	345	1150
37x2x0.5	37.0	473	1493

37x2x0.5	37,0	473	1493
2x2x0.75	14,3	38	223
2x2x0.75	14,3	38	223
2x3x0.75	15.8	53	274
2x3x0.75	15,8	53	274
2x4x0.75	18.2	67	338
2x4x0.75	18,2	67	338
3x2x0.75	15.2	58	271
3x2x0.75	15,2	58	271
3x3x0.75	16.7	79	338
3x3x0.75	16,7	79	338
3x4x0.75	19.5	101	421
3x4x0.75	19,5	101	421
4x2x0.75	16.6	77	328
4x2x0.75	16,6	77	328
4x3x0.75	18.4	106	412
4x3x0.75	18,4	106	412
4x4x0.75	21.4	134	515
4x4x0.75	21,4	134	515
5x2x0.75	18.2	96	387
5x2x0.75	18,2	96	387
5x3x0.75	20.2	132	490
5x3x0.75	20,2	132	490
5x4x0.75	23.6	168	615
5x4x0.75	23,6	168	615
7x2x0.75	19.9	134	484
7x2x0.75	19,9	134	484
7x3x0.75	22.1	185	620
7x3x0.75	22,1	185	620
7x4x0.75	25.8	235	782
7x4x0.75	25,8	235	782
10x2x0.75	25.5	192	684
10x2x0.75	25,5	192	684
10x3x0.75	28.4	264	878
10x3x0.75	28,4	264	878
12x2x0.75	26.4	230	772
12x2x0.75	26,4	230	772
16x2x0.75	29.4	307	969
16x2x0.75	29,4	307	969
19x2x0.75	31.1	365	1109
19x2x0.75	31,1	365	1109
24x2x0.75	36.7	461	1401
24x2x0.75	36,7	461	1401
27x2x0.75	37.5	518	1516
27x2x0.75	37,5	518	1516
37x2x0.75	42.8	710	2062
37x2x0.75	42,8	710	2062

2x2x1	14.9	53	250
2x2x1	14,9	53	250
2x3x1	16.5	73	309
2x3x1	16,5	73	309
2x4x1	19.1	92	382
2x4x1	19,1	92	382
3x2x1	15.8	80	308
3x2x1	15,8	80	308
3x3x1	17.6	109	386
3x3x1	17,6	109	386
3x4x1	20.4	139	481
3x4x1	20,4	139	481
4x2x1	17.4	107	376
4x2x1	17,4	107	376
4x3x1	19.4	146	475
4x3x1	19,4	146	475
4x4x1	22.5	185	596
4x4x1	22,5	185	596
5x2x1	19.0	134	445
5x2x1	19,0	134	445
5x3x1	21.2	182	567
5x3x1	21,2	182	567
5x4x1	24.7	231	712
5x4x1	24,7	231	712
7x2x1	20.8	187	561
7x2x1	20,8	187	561
7x3x1	23.2	255	723
7x3x1	23,2	255	723
7x4x1	27.1	323	912
7x4x1	27,1	323	912
10x2x1	26.7	267	796
10x2x1	26,7	267	796
10x3x1	30.0	364	1033
10x3x1	30,0	364	1033
12x2x1	27.6	321	902
12x2x1	27,6	321	902
16x2x1	30.8	427	1139
16x2x1	30,8	427	1139
19x2x1	32.5	508	1310
19x2x1	32,5	508	1310
24x2x1	38.4	641	1650
24x2x1	38,4	641	1650
27x2x1	39.4	721	1807
27x2x1	39,4	721	1807
37x2x1	44.7	988	2451
37x2x1	44,7	988	2451

2x2x1.5	16.8	71	308
2x2x1.5	16,8	71	308
2x3x1.5	18.6	100	385
2x3x1.5	18,6	100	385
2x4x1.5	21.5	128	481
2x4x1.5	21,5	128	481
3x2x1.5	17.9	107	383
3x2x1.5	17,9	107	383
3x3x1.5	19.9	150	487
3x3x1.5	19,9	150	487
3x4x1.5	23.0	193	613
3x4x1.5	23,0	193	613
4x2x1.5	19.6	143	469
4x2x1.5	19,6	143	469
4x3x1.5	21.8	200	602
4x3x1.5	21,8	200	602
4x4x1.5	25.3	257	761
4x4x1.5	25,3	257	761
5x2x1.5	21.6	179	558
5x2x1.5	21,6	179	558
5x3x1.5	24.0	250	722
5x3x1.5	24,0	250	722
5x4x1.5	27.9	321	914
5x4x1.5	27,9	321	914
7x2x1.5	23.6	250	709
7x2x1.5	23,6	250	709
7x3x1.5	26.3	350	925
7x3x1.5	26,3	350	925
7x4x1.5	30.7	449	1179
7x4x1.5	30,7	449	1179
10x2x1.5	30.5	357	1010
10x2x1.5	30,5	357	1010
10x3x1.5	34.1	499	1332
10x3x1.5	34,1	499	1332
12x2x1.5	31.6	429	1148
12x2x1.5	31,6	429	1148
16x2x1.5	35.3	571	1455
16x2x1.5	35,3	571	1455
19x2x1.5	37.4	679	1674
19x2x1.5	37,4	679	1674
24x2x1.5	44.7	857	2214
24x2x1.5	44,7	857	2214
27x2x1.5	45.6	964	2413
27x2x1.5	45,6	964	2413
37x2x1.5	51.5	1321	3155
37x2x1.5	51,5	1321	3155

2x2x2.5	18.4	109	379
2x2x2.5	18,4	109	379
2x3x2.5	20.4	154	483
2x3x2.5	20,4	154	483
2x4x2.5	23.6	200	604
2x4x2.5	23,6	200	604
3x2x2.5	19.6	163	479
3x2x2.5	19,6	163	479
3x3x2.5	21.8	232	619
3x3x2.5	21,8	232	619
3x4x2.5	25.3	301	784
3x4x2.5	25,3	301	784
4x2x2.5	21.6	217	592
4x2x2.5	21,6	217	592
4x3x2.5	24.1	309	772
4x3x2.5	24,1	309	772
4x4x2.5	28.0	401	981
4x4x2.5	28,0	401	981
5x2x2.5	23.6	272	708
5x2x2.5	23,6	272	708
5x3x2.5	26.4	386	931
5x3x2.5	26,4	386	931
5x4x2.5	30.8	501	1186
5x4x2.5	30,8	501	1186
7x2x2.5	26.0	380	911
7x2x2.5	26,0	380	911
7x3x2.5	29.1	541	1211
7x3x2.5	29,1	541	1211
7x4x2.5	33.9	701	1554
7x4x2.5	33,9	701	1554
10x2x2.5	33.6	543	1301
10x2x2.5	33,6	543	1301
10x3x2.5	37.8	772	1738
10x3x2.5	37,8	772	1738
12x2x2.5	34.7	652	1486
12x2x2.5	34,7	652	1486
16x2x2.5	38.9	869	1897
16x2x2.5	38,9	869	1897
19x2x2.5	41.6	1032	2279
19x2x2.5	41,6	1032	2279
24x2x2.5	49.2	1304	2880
24x2x2.5	49,2	1304	2880
27x2x2.5	50.4	1466	3153
27x2x2.5	50,4	1466	3153
37x2x2.5	56.9	2010	4150
37x2x2.5	56,9	2010	4150

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