

# M2XSH FE180



## Areas of Use

Used as fixed installation cable in marine vehicles. Screening layer forms a shield for protection against electromagnetic interferences. Halogen-Free and Flame Retardant construction ensures 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

<b>Conductor</b>	Stranded Annealed Copper (IEC/EN 60228, Class 2) (tinned copper and/or Class 5 versions are available upon request)
<b>Flame Barrier</b>	Mica Tape
<b>Insulation</b>	XLPE (IEC 60092-360)
<b>Core Colors</b>	According to HD 308 S2 (# of Cores $\geq 5$ => White numbered)
<b>Lay-up</b>	Cores are stranded in layers
<b>Inner Sheath</b>	HFFR
<b>Overall Screen</b>	Galvanised Steel Wire Braid
<b>Outer Sheath</b>	HFFR (IEC 60092-360 SHF1), RAL 6018 - Green
<b>Reference Standards</b>	IEC 60092-353

## Technical Properties

<b>Operating Voltage</b>	0.6/1 (1.2) kV
<b>Test Voltage</b>	3.5 kV (a.c.) 8.4 kV (d.c)
<b>Conductor Resistance</b>	IEC/EN 60228
<b>Insulation Resistance</b>	>5000 M. $\Omega$ xkm
<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>Fire Resistance</b>	IEC 60331-21
<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) ( $\pm$ 5%)	Copper Weight (kg / km)	~ Cable Weight (kg / km)
1x1	6.0	10	69
1x1	6,0	10	69
2x1	9.2	20	121

2x1	9,2	20	121
3x1	9.8	29	145
3x1	9,8	29	145
4x1	10.6	39	174
4x1	10,6	39	174
5x1	11.5	49	202
5x1	11,5	49	202
7x1	12.6	69	251
7x1	12,6	69	251
12x1	16.4	118	388
12x1	16,4	118	388
16x1	18.2	157	486
16x1	18,2	157	486
19x1	19.2	187	551
19x1	19,2	187	551
24x1	22.6	236	688
24x1	22,6	236	688
27x1	23.0	265	749
27x1	23,0	265	749
37x1	25.8	364	971
37x1	25,8	364	971
1x1.5	6.3	14	76
1x1.5	6,3	14	76
2x1.5	9.8	29	138
2x1.5	9,8	29	138
3x1.5	10.4	43	168
3x1.5	10,4	43	168
4x1.5	11.3	57	203
4x1.5	11,3	57	203
5x1.5	12.3	72	239
5x1.5	12,3	72	239
7x1.5	13.4	101	300
7x1.5	13,4	101	300
12x1.5	17.6	172	474
12x1.5	17,6	172	474
16x1.5	19.5	230	590
16x1.5	19,5	230	590
19x1.5	20.6	273	677
19x1.5	20,6	273	677
24x1.5	24.2	345	847
24x1.5	24,2	345	847
27x1.5	24.8	388	924
27x1.5	24,8	388	924
37x1.5	27.8	532	1208
37x1.5	27,8	532	1208
1x2.5	6.7	23	91
1x2.5	6,7	23	91

2x2.5	10.7	46	171
2x2.5	10,7	46	171
3x2.5	11.3	69	213
3x2.5	11,3	69	213
4x2.5	12.4	93	258
4x2.5	12,4	93	258
5x2.5	13.5	116	306
5x2.5	13,5	116	306
7x2.5	14.7	162	389
7x2.5	14,7	162	389
12x2.5	19.4	278	621
12x2.5	19,4	278	621
16x2.5	21.6	370	785
16x2.5	21,6	370	785
19x2.5	22.8	440	902
19x2.5	22,8	440	902
24x2.5	26.9	556	1135
24x2.5	26,9	556	1135
27x2.5	27.5	625	1249
27x2.5	27,5	625	1249
37x2.5	31.0	857	1641
37x2.5	31,0	857	1641
1x4	7.2	37	112
1x4	7,2	37	112
2x4	11.7	73	213
2x4	11,7	73	213
3x4	12.5	110	271
3x4	12,5	110	271
4x4	13.6	146	336
4x4	13,6	146	336
1x6	7.8	55	139
1x6	7,8	55	139
2x6	12.9	111	272
2x6	12,9	111	272
3x6	13.7	166	350
3x6	13,7	166	350
4x6	15.1	221	436
4x6	15,1	221	436
1x10	8.5	93	189
1x10	8,5	93	189
2x10	14.5	187	374
2x10	14,5	187	374
3x10	15.4	280	497
3x10	15,4	280	497
4x10	17.0	374	628
4x10	17,0	374	628

1x16	9.4	147	255
1x16	9,4	147	255
2x16	18.5	294	707
2x16	18,5	294	707
3x16	19.6	441	918
3x16	19,6	441	918
4x16	21.4	588	1132
4x16	21,4	588	1132
1x25	11.2	233	373
1x25	11,2	233	373
2x25	22.0	466	1022
2x25	22,0	466	1022
3x25	23.4	699	1347
3x25	23,4	699	1347
4x25	25.7	932	1676
4x25	25,7	932	1676
1x35	12.3	321	479
1x35	12,3	321	479
2x35	24.1	643	1282
2x35	24,1	643	1282
3x35	25.7	964	1718
3x35	25,7	964	1718
4x35	28.2	1285	2147
4x35	28,2	1285	2147
1x50	13.6	427	612
1x50	13,6	427	612
2x50	26.9	855	1624
2x50	26,9	855	1624
3x50	28.7	1282	2185
3x50	28,7	1282	2185
4x50	32.0	1709	2796
4x50	32,0	1709	2796
1x70	16.6	636	876
1x70	16,6	636	876
2x70	33.1	1273	2368
2x70	33,1	1273	2368
3x70	35.7	1909	3297
3x70	35,7	1909	3297
4x70	39.4	2545	4138
4x70	39,4	2545	4138
1x95	17.4	849	1105
1x95	17,4	849	1105
2x95	35.3	1699	2974
2x95	35,3	1699	2974
3x95	37.7	2548	4047
3x95	37,7	2548	4047

4x95	41.6	3398	5134
4x95	41,6	3398	5134
1x120	19.4	1219	1520
1x120	19,4	1219	1520
3x120	42.0	3657	5478
3x120	42,0	3657	5478
4x120	46.8	4876	7037
4x120	46,8	4876	7037
1x150	21.2	1382	1728
1x150	21,2	1382	1728
3x150	46.3	4145	6336
3x150	46,3	4145	6336
4x150	51.1	5527	8041
4x150	51,1	5527	8041
1x185	23.6	1651	2059
1x185	23,6	1651	2059
3x185	51.4	4952	7588
3x185	51,4	4952	7588
1x240	27.9	2165	2676
1x240	27,9	2165	2676
3x240	61.2	6495	10056
3x240	61,2	6495	10056
1x300	29.0	3045	3580
1x300	29,0	3045	3580

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