

## FM2XAASH 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

<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>	Pair: Black / White, Numbered Quad: Black / White / Red / Blue, Numbered
<b>1. Separator</b>	PET Foil
<b>Individual Screen</b>	Al-PET Foil (with Tinned Copper Drain Wire)
<b>2. Separator</b>	PET Foil
<b>Lay-up</b>	Shielded pairs / triples are stranded in layers
<b>Separator</b>	PET Foil
<b>1. Overall Screen</b>	Al-PET Foil (with Tinned Copper Drain Wire)
<b>Inner Sheath</b>	HFFR
<b>2. Overall Screen</b>	Galvanised Steel Wire Braid
<b>Outer Sheath</b>	HFFR (IEC 60092-360 SHF1), RAL 6018 - Green
<b>Reference Standards</b>	IEC 60092-376

### 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>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) (± 5%)	Copper Weight (kg / km)	~ Cable Weight (kg / km)
2x2x0.5	12.9	29	191
2x2x0.5	12,9	29	191
2x3x0.5	14.1	38	227
2x3x0.5	14,1	38	227
2x4x0.5	16.3	48	279
2x4x0.5	16,3	48	279
3x2x0.5	13.7	42	228
3x2x0.5	13,7	42	228
3x3x0.5	14.9	56	275
3x3x0.5	14,9	56	275
3x4x0.5	17.3	70	341
3x4x0.5	17,3	70	341
4x2x0.5	15.0	54	270
4x2x0.5	15,0	54	270
4x3x0.5	16.3	73	331
4x3x0.5	16,3	73	331
4x4x0.5	19.0	92	412
4x4x0.5	19,0	92	412
5x2x0.5	16.3	67	316
5x2x0.5	16,3	67	316
5x3x0.5	17.9	91	391
5x3x0.5	17,9	91	391
5x4x0.5	20.8	115	487
5x4x0.5	20,8	115	487
7x2x0.5	17.8	93	389
7x2x0.5	17,8	93	389
7x3x0.5	19.5	126	487
7x3x0.5	19,5	126	487
7x4x0.5	22.8	159	612
7x4x0.5	22,8	159	612
10x2x0.5	22.6	131	542
10x2x0.5	22,6	131	542
10x3x0.5	24.9	179	685
10x3x0.5	24,9	179	685
12x2x0.5	23.3	157	606
12x2x0.5	23,3	157	606
16x2x0.5	26.0	208	754
16x2x0.5	26,0	208	754
19x2x0.5	27.5	246	856
19x2x0.5	27,5	246	856
24x2x0.5	32.3	310	1079
24x2x0.5	32,3	310	1079
27x2x0.5	33.0	348	1167
27x2x0.5	33,0	348	1167
37x2x0.5	37.1	476	1503

37x2x0.5	37,1	476	1503
2x2x0.75	14,5	43	234
2x2x0.75	14,5	43	234
2x3x0.75	15,9	58	285
2x3x0.75	15,9	58	285
2x4x0.75	18,4	72	351
2x4x0.75	18,4	72	351
3x2x0.75	15,3	62	283
3x2x0.75	15,3	62	283
3x3x0.75	16,9	84	350
3x3x0.75	16,9	84	350
3x4x0.75	19,6	106	433
3x4x0.75	19,6	106	433
4x2x0.75	16,8	82	340
4x2x0.75	16,8	82	340
4x3x0.75	18,6	110	425
4x3x0.75	18,6	110	425
4x4x0.75	21,5	139	529
4x4x0.75	21,5	139	529
5x2x0.75	18,3	101	399
5x2x0.75	18,3	101	399
5x3x0.75	20,4	137	503
5x3x0.75	20,4	137	503
5x4x0.75	23,7	173	629
5x4x0.75	23,7	173	629
7x2x0.75	20,0	139	497
7x2x0.75	20,0	139	497
7x3x0.75	22,2	190	633
7x3x0.75	22,2	190	633
7x4x0.75	26,0	240	797
7x4x0.75	26,0	240	797
10x2x0.75	25,7	197	699
10x2x0.75	25,7	197	699
10x3x0.75	28,6	269	898
10x3x0.75	28,6	269	898
12x2x0.75	26,5	235	786
12x2x0.75	26,5	235	786
16x2x0.75	29,5	312	984
16x2x0.75	29,5	312	984
19x2x0.75	31,2	369	1123
19x2x0.75	31,2	369	1123
24x2x0.75	36,9	465	1419
24x2x0.75	36,9	465	1419
27x2x0.75	37,7	523	1542
27x2x0.75	37,7	523	1542
37x2x0.75	42,9	715	2084

37x2x0.75	42,9	715	2084
2x2x1	15.0	61	263
2x2x1	15,0	61	263
2x3x1	16.7	80	324
2x3x1	16,7	80	324
2x4x1	19.3	100	398
2x4x1	19,3	100	398
3x2x1	16.0	87	323
3x2x1	16,0	87	323
3x3x1	17.8	117	402
3x3x1	17,8	117	402
3x4x1	20.6	146	498
3x4x1	20,6	146	498
4x2x1	17.5	114	390
4x2x1	17,5	114	390
4x3x1	19.5	153	490
4x3x1	19,5	153	490
4x4x1	22.6	192	611
4x4x1	22,6	192	611
5x2x1	19.2	141	461
5x2x1	19,2	141	461
5x3x1	21.4	189	584
5x3x1	21,4	189	584
5x4x1	24.9	238	730
5x4x1	24,9	238	730
7x2x1	20.9	194	577
7x2x1	20,9	194	577
7x3x1	23.5	262	741
7x3x1	23,5	262	741
7x4x1	27.3	330	932
7x4x1	27,3	330	932
10x2x1	26.8	274	815
10x2x1	26,8	274	815
10x3x1	30.2	372	1049
10x3x1	30,2	372	1049
12x2x1	27.7	328	920
12x2x1	27,7	328	920
16x2x1	30.9	435	1158
16x2x1	30,9	435	1158
19x2x1	32.7	515	1332
19x2x1	32,7	515	1332
24x2x1	38.6	648	1672
24x2x1	38,6	648	1672
27x2x1	39.5	728	1823
27x2x1	39,5	728	1823
37x2x1	44.9	996	2477

37x2x1	44,9	996	2477
2x2x1.5	17,0	79	324
2x2x1.5	17,0	79	324
2x3x1.5	18,7	107	400
2x3x1.5	18,7	107	400
2x4x1.5	21,7	136	498
2x4x1.5	21,7	136	498
3x2x1.5	18,0	114	398
3x2x1.5	18,0	114	398
3x3x1.5	20,0	157	503
3x3x1.5	20,0	157	503
3x4x1.5	23,1	200	628
3x4x1.5	23,1	200	628
4x2x1.5	19,9	150	485
4x2x1.5	19,9	150	485
4x3x1.5	22,0	207	618
4x3x1.5	22,0	207	618
4x4x1.5	25,5	264	779
4x4x1.5	25,5	264	779
5x2x1.5	21,8	186	575
5x2x1.5	21,8	186	575
5x3x1.5	24,2	257	739
5x3x1.5	24,2	257	739
5x4x1.5	28,1	328	933
5x4x1.5	28,1	328	933
7x2x1.5	23,8	257	727
7x2x1.5	23,8	257	727
7x3x1.5	26,5	357	945
7x3x1.5	26,5	357	945
7x4x1.5	30,9	457	1201
7x4x1.5	30,9	457	1201
10x2x1.5	30,7	364	1032
10x2x1.5	30,7	364	1032
10x3x1.5	34,2	507	1350
10x3x1.5	34,2	507	1350
12x2x1.5	31,7	436	1167
12x2x1.5	31,7	436	1167
16x2x1.5	35,5	579	1479
16x2x1.5	35,5	579	1479
19x2x1.5	37,5	686	1696
19x2x1.5	37,5	686	1696
24x2x1.5	44,8	864	2239
24x2x1.5	44,8	864	2239
27x2x1.5	45,8	971	2439
27x2x1.5	45,8	971	2439
37x2x1.5	51,6	1329	3183

37x2x1.5	51,6	1329	3183
2x2x2.5	18,5	117	395
2x2x2.5	18,5	117	395
2x3x2.5	20,5	163	498
2x3x2.5	20,5	163	498
2x4x2.5	23,8	209	623
2x4x2.5	23,8	209	623
3x2x2.5	19,7	171	494
3x2x2.5	19,7	171	494
3x3x2.5	21,9	240	636
3x3x2.5	21,9	240	636
3x4x2.5	25,4	309	802
3x4x2.5	25,4	309	802
4x2x2.5	21,7	226	609
4x2x2.5	21,7	226	609
4x3x2.5	24,2	317	791
4x3x2.5	24,2	317	791
4x4x2.5	28,1	409	1002
4x4x2.5	28,1	409	1002
5x2x2.5	23,8	280	727
5x2x2.5	23,8	280	727
5x3x2.5	26,6	395	951
5x3x2.5	26,6	395	951
5x4x2.5	31,0	509	1207
5x4x2.5	31,0	509	1207
7x2x2.5	26,1	389	928
7x2x2.5	26,1	389	928
7x3x2.5	29,2	549	1229
7x3x2.5	29,2	549	1229
7x4x2.5	34,1	710	1574
7x4x2.5	34,1	710	1574
10x2x2.5	33,7	552	1327
10x2x2.5	33,7	552	1327
10x3x2.5	37,9	781	1760
10x3x2.5	37,9	781	1760
12x2x2.5	35,0	660	1514
12x2x2.5	35,0	660	1514
16x2x2.5	39,0	877	1920
16x2x2.5	39,0	877	1920
19x2x2.5	41,8	1040	2303
19x2x2.5	41,8	1040	2303
24x2x2.5	49,4	1312	2911
24x2x2.5	49,4	1312	2911
27x2x2.5	50,6	1475	3185
27x2x2.5	50,6	1475	3185
37x2x2.5	57,0	2018	4181

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