FM2XAAH 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
Separator	PET Foil
Overall Screen	Al-PET Foil (with Tinned Copper Drain Wire)
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	11.5	29	119
2x3x0.5	12.7	38	149
2x4x0.5	14.9	48	185
3x2x0.5	12.4	42	150
3x3x0.5	13.5	56	190
3x4x0.5	15.8	70	238
4x2x0.5	13.6	54	185
4x3x0.5	14.9	73	237
4x4x0.5	17.5	92	297
5x2x0.5	14.9	67	220
5x3x0.5	16.4	91	285
5x4x0.5	19.2	115	357
7x2x0.5	16.3	93	283
7x3x0.5	18.0	126	369
7x4x0.5	21.2	159	466
10x2x0.5	21.0	131	399
10x3x0.5	23.3	179	523
12x2x0.5	21.7	157	457
16x2x0.5	24.3	208	583
19x2x0.5	25.8	246	674
24x2x0.5	30.5	310	850
27x2x0.5	31.2	348	935
37x2x0.5	35.2	476	1233
2x2x0.75	13.1	43	152
2x3x0.75	14.5	58	192
2x4x0.75	17.0	72	240
3x2x0.75	13.9	62	194
3x3x0.75	15.5	84	250
3x4x0.75	18.1	106	313
4x2x0.75	15.4	82	240
4x3x0.75	17.1	110	312
4x4x0.75	20.0	139	393
5x2x0.75	16.8	101	288
5x3x0.75	18.8	137	377
5x4x0.75	22.1	173	476
7x2x0.75	18.5	139	373
7x3x0.75	20.6	190	492
7x4x0.75	24.3	240	625
10x2x0.75	24.0	197	530
10x3x0.75	26.9	269	703
12x2x0.75	24.9	235	609
16x2x0.75	27.8	312	780
19x2x0.75	29.5	369	905
24x2x0.75	35.0	465	1144
27x2x0.75	35.8	523	1260
37x2x0.75	40.4	715	1672

2x2x1	13.6	61	178
2x3x1	15.3	80	225
2x4x1	17.8	100	280
3x2x1	14.6	87	230
3x3x1	16.3	117	295
3x4x1	19.0	146	370
4x2x1	16.0	114	286
4x3x1	18.0	153	371
4x4x1	21.0	192	467
5x2x1	17.7	141	344
5x3x1	19.9	189	450
5x4x1	23.2	238	567
7x2x1	19.4	194	448
7x3x1	21.9	262	591
7x4x1	25.6	330	748
10x2x1	25.1	274	636
10x3x1	28.4	372	843
12x2x1	26.0	328	734
16x2x1	29.1	435	944
19x2x1	30.9	515	1098
24x2x1	36.6	648	1388
27x2x1	37.5	728	1532
37x2x1	42.4	996	2041
2x2x1.5	15.5	79	219
2x3x1.5	17.2	107	283
2x4x1.5	20.1	136	357
3x2x1.5	16.6	114	286
3x3x1.5	18.4	157	375
3x4x1.5	21.5	200	477
4x2x1.5	18.3	150	359
4x3x1.5	20.4	207	475
4x4x1.5	23.9	264	604
5x2x1.5	20.2	186	433
5x3x1.5	22.5	257	578
5x4x1.5	26.4	328	738
7x2x1.5	22.2	257	568
7x3x1.5	24.8	357	764
7x4x1.5	29.1	457	978
10x2x1.5	28.9	364	811
10x3x1.5	32.3	507	1094
12x2x1.5	29.9	436	938
16x2x1.5	33.6	579	1213
19x2x1.5	35.5	686	1411
24x2x1.5	42.2	864	1789
27x2x1.5	43.3	971	1977
37x2x1.5	48.9	1329	2640

2x2x2.5	17.0	117	279
2x3x2.5	19.0	163	365
2x4x2.5	22.2	209	464
3x2x2.5	18.1	171	369
3x3x2.5	20.3	240	493
3x4x2.5	23.8	309	628
4x2x2.5	20.1	226	467
4x3x2.5	22.5	317	628
4x4x2.5	26.4	409	804
5x2x2.5	22.2	280	567
5x3x2.5	24.9	395	766
5x4x2.5	29.2	509	985
7x2x2.5	24.4	389	750
7x3x2.5	27.4	549	1023
7x4x2.5	32.2	710	1317
10x2x2.5	31.8	552	1073
10x3x2.5	35.9	781	1466
12x2x2.5	33.1	660	1248
16x2x2.5	37.0	877	1618
19x2x2.5	39.3	1040	1890
24x2x2.5	46.7	1312	2396
27x2x2.5	47.9	1475	2655
37x2x2.5	54.1	2018	3558

23.11.2026 16:16

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