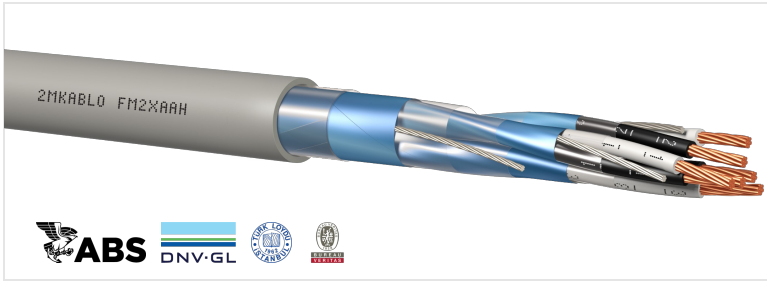
FM2XAAH



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

Conductor	Stranded Annealed Copper (IEC/EN 60228, Class 2) (tinned copper and/or Class 5 versions are available upon request)
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 9005 - Black or RAL 7001 - Grey
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)
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	8.9	29	86
2x3x0.5	9.8	38	106
2x4x0.5	11.2	48	129

3x2x0.5	9.4	42	107
3x3x0.5	10.4	56	135
3x4x0.5	11.9	70	166
4x2x0.5	10.2	54	131
4x3x0.5	11.4	73	167
4x4x0.5	13.1	92	206
5x2x0.5	11.2	67	156
5x3x0.5	12.5	91	200
5x4x0.5	14.3	115	248
7x2x0.5	12.2	93	200
7x3x0.5	13.7	126	258
7x4x0.5	15.7	159	322
10x2x0.5	15.6	131	281
10x3x0.5	17.5	179	364
12x2x0.5	16.1	157	322
16x2x0.5	17.9	208	410
19x2x0.5	18.9	246	473
24x2x0.5	22.3	310	594
27x2x0.5	22.8	348	654
37x2x0.5	25.6	476	863
2x2x0.75	10.3	43	115
2x3x0.75	11.6	58	145
2x4x0.75	13.3	72	178
3x2x0.75	11.0	62	147
3x3x0.75	12.3	84	187
3x4x0.75	14.1	106	231
4x2x0.75	12.0	82	181
4x3x0.75	13.6	110	233
4x4x0.75	15.6	139	291
5x2x0.75	13.2	101	217
5x3x0.75	14.8	137	280
5x4x0.75	17.1	173	351
7x2x0.75	14.4	139	280
7x3x0.75	16.3	190	366
7x4x0.75	18.8	240	460
10x2x0.75	18.5	197	396
10x3x0.75	21.0	269	519
12x2x0.75	19.2	235	455
16x2x0.75	21.4	312	583
19x2x0.75	22.6	369	675
24x2x0.75	26.8	465	852
27x2x0.75	27.3	523	938
37x2x0.75	30.8	715	1247
2x2x1	11.1	61	140
2x3x1	12.3	80	174
2x4x1	14.3	100	217
3x2x1	11.8	87	180

3x3x1	13.1	117	229
3x4x1	15.2	146	285
4x2x1	12.9	114	224
4x3x1	14.5	153	288
4x4x1	16.8	192	359
5x2x1	14.2	141	268
5x3x1	16.0	189	348
5x4x1	18.5	238	435
7x2x1	15.5	194	350
7x3x1	17.4	262	456
7x4x1	20.4	330	575
10x2x1	20.0	274	495
10x3x1	22.5	372	648
12x2x1	20.7	328	571
16x2x1	23.1	435	735
19x2x1	24.4	515	854
24x2x1	28.9	648	1078
27x2x1	29.6	728	1190
37x2x1	33.4	996	1587
2x2x1.5	12.7	79	177
2x3x1.5	14.3	107	227
2x4x1.5	16.6	136	284
3x2x1.5	13.6	114	231
3x3x1.5	15.3	157	301
3x4x1.5	17.8	200	379
4x2x1.5	14.9	150	289
4x3x1.5	16.9	207	381
4x4x1.5	19.6	264	481
5x2x1.5	16.5	186	349
5x3x1.5	18.6	257	462
5x4x1.5	21.6	328	586
7x2x1.5	18.1	257	458
7x3x1.5	20.4	357	611
7x4x1.5	23.8	457	778
10x2x1.5	23.4	364	651
10x3x1.5	26.6	507	872
12x2x1.5	24.3	436	754
16x2x1.5	27.1	579	974
19x2x1.5	28.7	686	1133
24x2x1.5	34.0	864	1433
27x2x1.5	34.8	971	1586
37x2x1.5	39.3	1329	2118
2x2x2.5	14.4	117	233
2x3x2.5	16.1	163	304
2x4x2.5	18.7	209	384
3x2x2.5	15.5	171	309

3x3x2.5	17.2	240	410
3x4x2.5	20.0	309	521
4x2x2.5	17.0	226	390
4x3x2.5	19.0	317	522
4x4x2.5	22.2	409	667
5x2x2.5	18.7	280	473
5x3x2.5	21.0	395	638
5x4x2.5	24.5	509	816
7x2x2.5	20.6	389	627
7x3x2.5	23.1	549	851
7x4x2.5	27.0	710	1092
10x2x2.5	26.8	552	894
10x3x2.5	30.1	781	1217
12x2x2.5	27.7	660	1040
16x2x2.5	31.1	877	1351
19x2x2.5	32.8	1040	1577
24x2x2.5	39.0	1312	1997
27x2x2.5	40.0	1475	2214
37x2x2.5	45.2	2018	2971

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