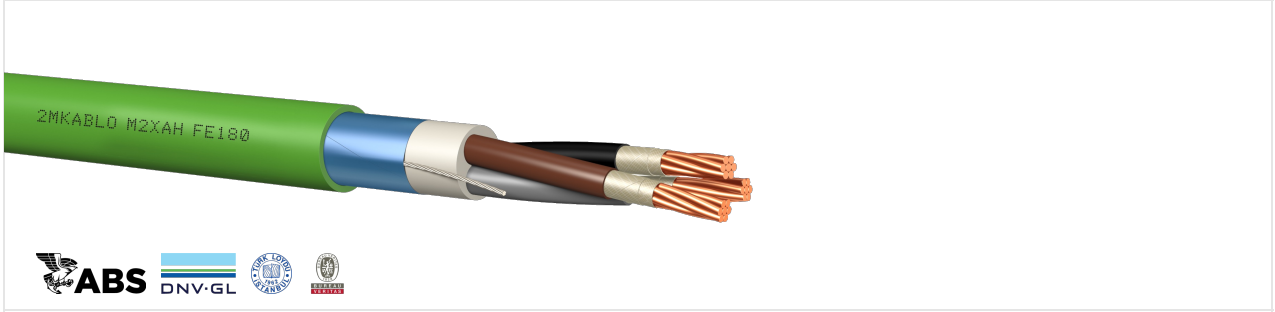
M2XAH FE180



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. In addition, 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	According to HD 308 S2 (# of Cores ≥5 => White numbered)
Lay-up	Cores / pairs / triples / quads 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 60092-353

Technical Properties

Operating Voltage	0.6/1 (1.2) kV
Test Voltage	3.5 kV (a.c.) 8.4 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)
1x1	5.4	17	49
2x1	8.8	27	99

3x1	9.3	37	109
4x1	10.2	47	133
5x1	11.2	56	164
7x1	12.2	76	202
12x1	16.1	125	327
16x1	18.0	164	422
19x1	19.1	194	480
24x1	22.5	243	609
27x1	23.0	273	668
37x1	25.9	371	881
1x1.5	5.7	22	56
2x1.5	9.3	36	116
3x1.5	10.0	50	131
4x1.5	10.9	65	161
5x1.5	11.9	79	200
7x1.5	13.1	108	248
12x1.5	17.4	180	406
16x1.5	19.4	237	526
19x1.5	20.5	280	601
24x1.5	24.2	352	762
27x1.5	24.8	395	838
37x1.5	27.9	539	1112
1x2.5	6.1	32	70
2x2.5	10.3	55	149
3x2.5	10.9	78	170
4x2.5	12.0	101	212
5x2.5	13.2	124	265
7x2.5	14.4	171	334
12x2.5	19.3	286	550
16x2.5	21.5	379	718
19x2.5	22.7	448	825
24x2.5	26.9	564	1046
27x2.5	27.6	634	1156
37x2.5	31.2	865	1541
1x4	6.6	45	88
2x4	11.4	82	192
3x4	12.1	118	226
4x4	13.3	155	285
1x6	7.3	64	112
2x6	12.6	119	249
3x6	13.4	174	299
4x6	14.8	230	382
1x10	8.0	102	159
2x10	14.2	195	354
3x10	15.2	289	438
4x10	16.8	382	564

1x16	9.0	155	223
2x16	18.2	302	686
3x16	19.4	449	846
4x16	21.2	596	1056
1x25	10.8	242	333
2x25	21.9	475	1017
3x25	23.3	708	1264
4x25	25.6	941	1589
1x35	11.9	330	434
2x35	24.0	651	1293
3x35	25.6	972	1628
4x35	28.2	1294	2056
1x50	13.3	436	560
2x50	26.8	863	1652
3x50	28.7	1290	2092
4x50	32.1	1718	2695
1x70	16.3	645	813
2x70	33.2	1281	2461
3x70	35.5	1917	3104
4x70	39.2	2554	3939
1x95	17.2	858	1040
2x95	35.0	1707	3009
3x95	37.5	2557	3865
4x95	41.5	3406	4930
1x120	19.3	1227	1446
3x120	41.9	3666	5269
4x120	46.9	4885	6815
1x150	21.1	1390	1648
3x150	46.4	4154	6115
4x150	51.3	5536	7826
1x185	23.6	1659	1972
3x185	51.7	4960	7366
1x240	28.0	2174	2578
3x240	61.7	6504	9838
1x300	29.1	3053	3489

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