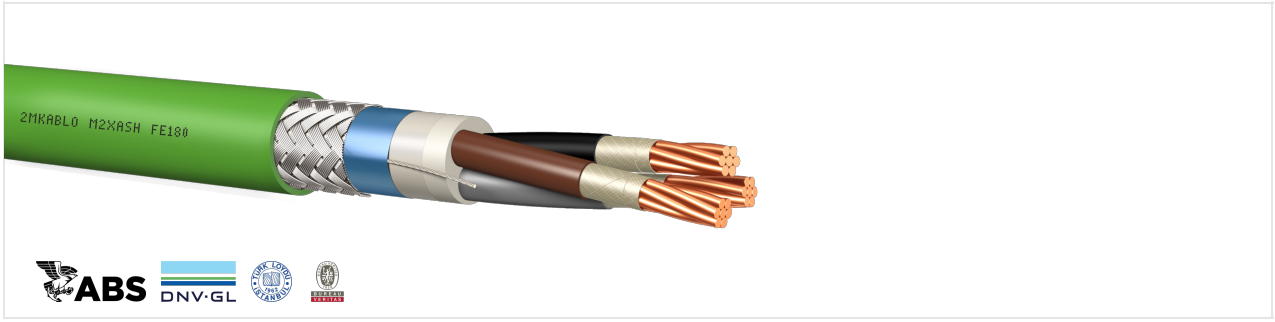
M2XASH FE180



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

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 are stranded in layers
Inner Sheath	PET Foil
Overall Screen	Al-PET Foil (with Tinned Copper Drain Wire)
Separator	HFFR
Armour	Galvanised Steel Wire Braid
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	6.7	17	87
2x1	10.2	27	153
3x1	10.7	37	179
4x1	11.6	47	208
5x1	12.6	56	240
7x1	13.6	76	292
12x1	17.5	125	443
16x1	19.4	164	549
19x1	20.4	194	619
24x1	23.9	243	773
27x1	24.3	273	835
37x1	27.2	371	1072
1x1.5	7.0	22	95
2x1.5	10.7	36	172
3x1.5	11.4	50	204
4x1.5	12.3	65	242
5x1.5	13.3	79	280
7x1.5	14.5	108	344
12x1.5	18.8	180	536
16x1.5	20.8	237	659
19x1.5	21.8	280	752
24x1.5	25.6	352	940
27x1.5	26.2	395	1020
37x1.5	29.3	539	1322
1x2.5	7.5	32	115
2x2.5	11.7	55	207
3x2.5	12.3	78	251
4x2.5	13.4	101	302
5x2.5	14.6	124	351
7x2.5	15.8	171	440
12x2.5	20.7	286	690
16x2.5	22.9	379	865
19x2.5	24.1	448	989
24x2.5	28.3	564	1244
27x2.5	29.0	634	1361
37x2.5	32.5	865	1775
1x4	8.0	45	137
2x4	12.8	82	255
3x4	13.5	118	314
4x4	14.7	155	382
1x6	8.7	64	165
2x6	14.0	119	315
3x6	14.8	174	397
4x6	16.2	230	492
1x10	9.4	102	216
2x10	15.6	195	424

3x10	16.6	289	550
4x10	18.2	382	688
1x16	10.4	155	289
2x16	19.5	302	766
3x16	20.7	449	982
4x16	22.5	596	1205
1x25	12.2	242	412
2x25	23.1	475	1098
3x25	24.5	708	1429
4x25	26.9	941	1769
1x35	13.3	330	521
2x35	25.3	651	1367
3x35	26.9	972	1811
4x35	29.5	1294	2255
1x50	14.7	436	658
2x50	28.1	863	1724
3x50	29.9	1290	2294
4x50	33.4	1718	2925
1x70	17.7	645	933
2x70	34.5	1281	2505
3x70	37.2	1917	3451
4x70	41.0	2554	4318
1x95	18.6	858	1166
2x95	36.7	1707	3125
3x95	39.2	2557	4215
4x95	43.2	3406	5329
1x120	20.7	1227	1590
3x120	43.7	3666	5678
4x120	48.6	4885	7273
1x150	22.5	1390	1807
3x150	48.1	4154	6567
4x150	53.1	5536	8318
1x185	25.0	1659	2149
3x185	53.4	4960	7866
1x240	29.4	2174	2790
3x240	63.4	6504	10431
1x300	30.5	3053	3700

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