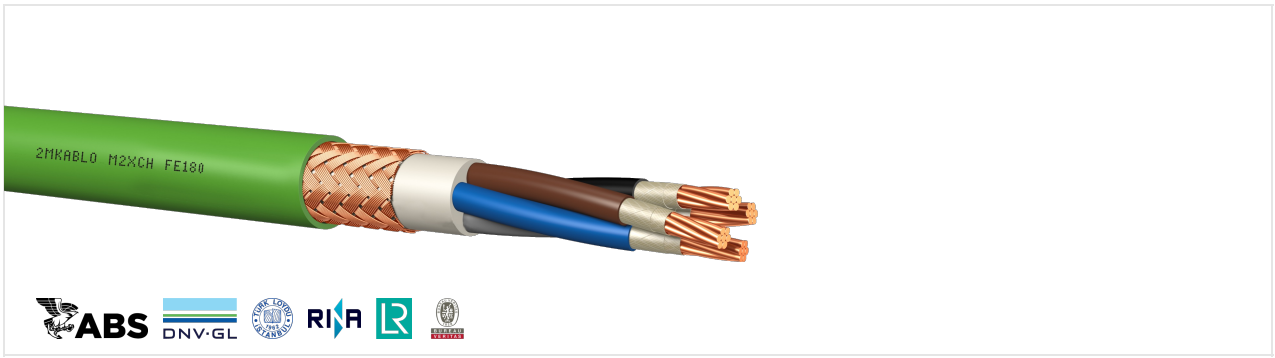
M2XCH FE180



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 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	According to HD 308 S2 (# of Cores ≥5 => White numbered)
Lay-up	Cores are stranded in layers
Separator	PET Foil (HFFR filler upon request)
Overall Screen	Annealed Copper Wire Braiding (90% Coverage)
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	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)
1x1	6.1	30	65

2x1	9.5	57	134
3x1	10.1	69	146
4x1	10.9	83	174
5x1	11.9	98	209
7x1	13.0	123	253
12x1	17.3	233	442
16x1	19.1	285	551
19x1	20.2	319	613
24x1	23.7	401	776
27x1	24.1	428	832
37x1	27.0	546	1064
1x1.5	6.4	37	74
2x1.5	10.1	69	153
3x1.5	10.7	87	171
4x1.5	11.7	105	206
5x1.5	12.7	125	250
7x1.5	14.3	191	339
12x1.5	18.6	294	529
16x1.5	20.5	370	667
19x1.5	21.6	416	745
24x1.5	25.4	518	937
27x1.5	25.9	565	1017
37x1.5	29.1	740	1323
1x2.5	6.8	47	89
2x2.5	11.0	91	189
3x2.5	11.7	118	215
4x2.5	12.8	146	262
5x2.5	14.4	206	355
7x2.5	15.6	263	434
12x2.5	20.4	414	687
16x2.5	22.7	523	870
19x2.5	23.9	602	988
24x2.5	28.1	749	1240
27x2.5	28.8	830	1362
37x2.5	32.3	1090	1776
1x4	7.4	63	109
2x4	12.1	124	238
3x4	12.9	166	277
4x4	14.5	237	375
1x6	8.0	85	138
2x6	13.3	169	303
3x6	14.6	259	391
4x6	16.0	323	483
1x10	8.8	126	187
2x10	15.4	287	453
3x10	16.3	388	545

4x10	18.0	490	680
1x16	9.7	185	256
2x16	19.4	421	813
3x16	20.5	578	983
4x16	22.4	738	1207
1x25	11.6	280	375
2x25	23.0	620	1171
3x25	24.4	863	1429
4x25	26.8	1115	1774
1x35	12.7	375	483
2x35	25.2	814	1466
3x35	26.8	1148	1814
4x35	29.4	1491	2264
1x50	14.5	520	652
2x50	28.0	1046	1845
3x50	29.8	1492	2304
4x50	33.3	1939	2928
1x70	17.5	752	929
2x70	34.4	1513	2706
3x70	37.1	2262	3470
4x70	40.9	2925	4333
1x95	18.4	971	1161
2x95	36.6	2046	3369
3x95	39.1	2920	4248
4x95	43.1	3811	5358
1x120	20.4	1357	1585
3x120	43.6	4065	5692
4x120	48.5	5331	7288
1x150	22.3	1534	1802
3x150	48.0	4597	6583
4x150	52.9	6027	8342
1x185	24.8	1822	2144
3x185	53.3	5459	7892
1x240	29.2	2370	2786
3x240	63.3	7099	10465
1x300	30.3	3261	3707

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