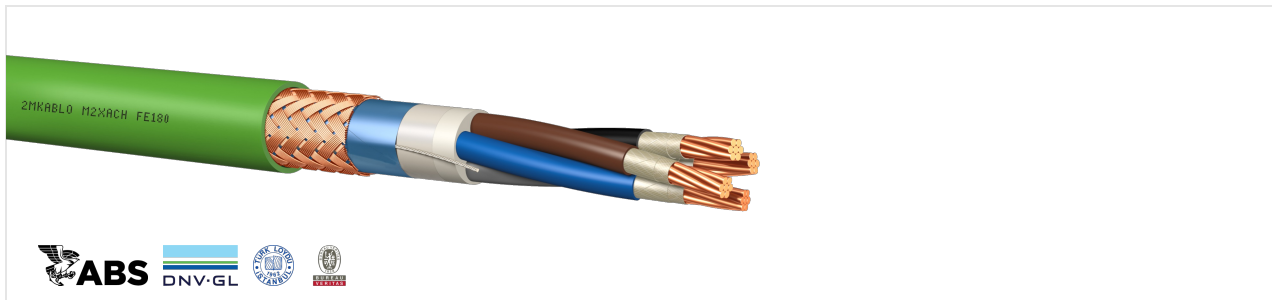


M2XACH FE180



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
1. Overall Screen	Al-PET Foil (with Tinned Copper Drain Wire)
Separator	PET Foil (HFFR filler upon request)
2. Overall Screen	Annealed Copper Wire Braid (90% Coverage)
Outer Sheath	HFFR (IEC 60092-360 SHF1), RAL 6018 - Green
Reference Standards	IEC 60092-376

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	$>5000 \text{ M}\Omega\text{km}$
Temperature Range	$-40 \text{ }^{\circ}\text{C} \dots +90 \text{ }^{\circ}\text{C}$
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/mm ²)	Cable Diameter (mm) ($\pm 5\%$)	Copper Weight (kg / km)	~ Cable Weight (kg / km)
1x1	6.3	38	76

1x1	6,3	38	76
2x1	9.7	65	134
2x1	9,7	65	134
3x1	10.3	77	158
3x1	10,3	77	158
4x1	11.2	92	188
4x1	11,2	92	188
5x1	12.1	107	218
5x1	12,1	107	218
7x1	13.2	132	268
7x1	13,2	132	268
12x1	17.5	238	455
12x1	17,5	238	455
16x1	19.4	293	562
16x1	19,4	293	562
19x1	20.4	334	637
19x1	20,4	334	637
24x1	23.9	409	795
24x1	23,9	409	795
27x1	24.3	436	850
27x1	24,3	436	850
37x1	27.2	561	1091
37x1	27,2	561	1091
1x1.5	6.6	45	85
1x1.5	6,6	45	85
2x1.5	10.3	76	151
2x1.5	10,3	76	151
3x1.5	10.9	95	184
3x1.5	10,9	95	184
4x1.5	11.9	114	219
4x1.5	11,9	114	219
5x1.5	12.9	135	258
5x1.5	12,9	135	258
7x1.5	14.5	200	355
7x1.5	14,5	200	355
12x1.5	18.8	302	545
12x1.5	18,8	302	545
16x1.5	20.8	374	674
16x1.5	20,8	374	674
19x1.5	21.8	428	767
19x1.5	21,8	428	767
24x1.5	25.6	525	956
24x1.5	25,6	525	956
27x1.5	26.2	573	1036
27x1.5	26,2	573	1036
37x1.5	29.3	749	1345

37x1.5	29,3	749	1345
1x2.5	7.0	57	101
1x2.5	7,0	57	101
2x2.5	11.3	102	188
2x2.5	11,3	102	188
3x2.5	11.9	127	228
3x2.5	11,9	127	228
4x2.5	13.0	157	278
4x2.5	13,0	157	278
5x2.5	14.6	217	363
5x2.5	14,6	217	363
7x2.5	15.8	272	450
7x2.5	15,8	272	450
12x2.5	20.7	423	705
12x2.5	20,7	423	705
16x2.5	22.9	535	884
16x2.5	22,9	535	884
19x2.5	24.1	615	1012
19x2.5	24,1	615	1012
24x2.5	28.3	757	1262
24x2.5	28,3	757	1262
27x2.5	29.0	833	1377
27x2.5	29,0	833	1377
37x2.5	32.5	1099	1800
37x2.5	32,5	1099	1800
1x4	7.6	73	123
1x4	7,6	73	123
2x4	12.3	133	232
2x4	12,3	133	232
3x4	13.1	173	290
3x4	13,1	173	290
4x4	14.7	248	392
4x4	14,7	248	392
1x6	8.2	95	151
1x6	8,2	95	151
2x6	14.0	208	325
2x6	14,0	208	325
3x6	14.8	267	407
3x6	14,8	267	407
4x6	16.2	337	503
4x6	16,2	337	503
1x10	9.0	136	201
1x10	9,0	136	201
2x10	15.6	296	434
2x10	15,6	296	434
3x10	16.6	397	561

3x10	16,6	397	561
4x10	18.2	499	697
4x10	18,2	499	697
1x16	10.0	195	270
1x16	10,0	195	270
2x16	19.6	433	787
2x16	19,6	433	787
3x16	20.8	587	1001
3x16	20,8	587	1001
4x16	22.6	747	1226
4x16	22,6	747	1226
1x25	11.8	290	390
1x25	11,8	290	390
2x25	23.2	630	1116
2x25	23,2	630	1116
3x25	24.7	874	1451
3x25	24,7	874	1451
4x25	27.0	1124	1794
4x25	27,0	1124	1794
1x35	12.9	383	497
1x35	12,9	383	497
2x35	25.4	822	1391
2x35	25,4	822	1391
3x35	27.0	1156	1833
3x35	27,0	1156	1833
4x35	29.6	1500	2286
4x35	29,6	1500	2286
1x50	14.7	529	668
1x50	14,7	529	668
2x50	28.2	1055	1745
2x50	28,2	1055	1745
3x50	30.1	1505	2331
3x50	30,1	1505	2331
4x50	33.5	1957	2960
4x50	33,5	1957	2960
1x70	17.7	764	949
1x70	17,7	764	949
2x70	34.6	1523	2537
2x70	34,6	1523	2537
3x70	37.3	2271	3494
3x70	37,3	2271	3494
4x70	41.1	2953	4377
4x70	41,1	2953	4377
1x95	18.6	983	1182
1x95	18,6	983	1182
2x95	36.9	2055	3176

2x95	36,9	2055	3176
3x95	39,3	2929	4274
3x95	39,3	2929	4274
4x95	43,3	3821	5387
4x95	43,3	3821	5387
1x120	20,7	1367	1604
1x120	20,7	1367	1604
3x120	43,8	4075	5719
3x120	43,8	4075	5719
4x120	48,7	5341	7319
4x120	48,7	5341	7319
1x150	22,5	1544	1822
1x150	22,5	1544	1822
3x150	48,2	4608	6616
3x150	48,2	4608	6616
4x150	53,2	6036	8375
4x150	53,2	6036	8375
1x185	25,0	1832	2166
1x185	25,0	1832	2166
3x185	53,5	5467	7921
3x185	53,5	5467	7921
1x240	29,4	2375	2804
1x240	29,4	2375	2804
3x240	63,5	7118	10512
3x240	63,5	7118	10512
1x300	30,5	3266	3726
1x300	30,5	3266	3726

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