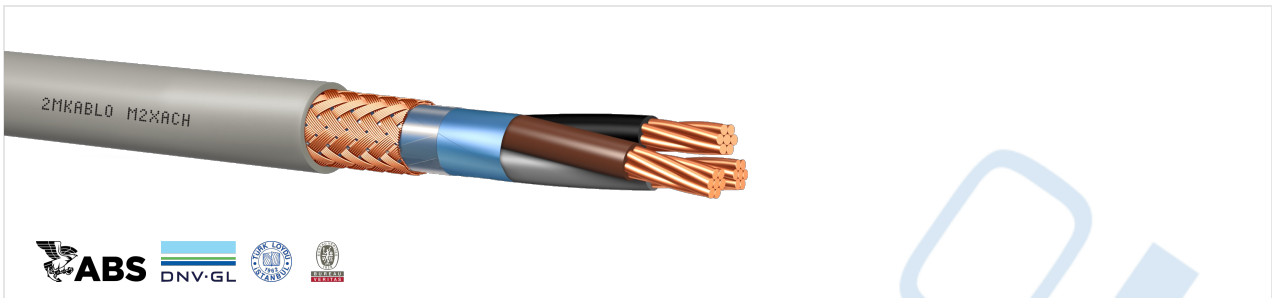


# M2XACH



## 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.

## Cable Construction

<b>Conductor</b>	Stranded Annealed Copper (IEC/EN 60228, Class 2) (tinned copper and/or Class 5 versions are available upon request)
<b>Insulation</b>	XLPE (IEC 60092-360)
<b>Core Colors</b>	According to HD 308 S2 (# of Cores ≥ 5 => White numbered)
<b>Lay-up</b>	Cores are stranded in layers
<b>Separator</b>	PET Foil
<b>1. Overall Screen</b>	Al-PET Foil (with Tinned Copper Drain Wire)
<b>Separator</b>	PET Foil (HFFR filler upon request)
<b>2. Overall Screen</b>	Annealed Copper Wire Braid (90% Coverage)
<b>Outer Sheath</b>	HFFR (IEC 60092-360 SHF1), RAL 9005 - Black or RAL 7001 - Grey
<b>Reference Standards</b>	IEC 60092-353

## Technical Properties

<b>Operating Voltage</b>	0.6/1 (1.2) kV
<b>Test Voltage</b>	3.5 kV (a.c.) 8.4 kV (d.c)
<b>Conductor Resistance</b>	IEC/EN 60228
<b>Insulation Resistance</b>	>5000 M.Ωxkm
<b>Temperature Range</b>	-40 °C.....+90 °C
<b>Flame Retardancy</b>	IEC/EN 60332-1-2, IEC/EN 60332-3-22 (CAT A)
<b>Smoke Density</b>	IEC/EN 61034-1+2
<b>Amount of Halogen Acid Gas</b>	IEC/EN 60754-1
<b>Corrosive Gases Measurement</b>	IEC/EN 60754-2
<b>Min. Bending Radius (Fixed)</b>	8 x Cable Diameter

## Cross Section

Configuration / Cross-Section (mm/mm²)	Cable Diameter (mm) (± 5%)	Copper Weight (kg / km)	~ Cable Weight (kg / km)
1x1	5.7	35	67
1x2x0,5	6,50	16	74
1x1	5,7	35	67

2x1	8.6	60	122
1x3x0,5	6,70	21	80
2x1	8,6	60	122
3x1	9.1	71	134
1x4x0,5	7,25	26	91
3x1	9,1	71	134
4x1	9.8	85	158
2x2x0,5	8,75	26	110
4x1	9,8	85	158
5x1	10.6	98	185
2x3x0,5	9,70	35	134
5x1	10,6	98	185
7x1	11.5	121	222
2x4x0,5	11,65	45	171
7x1	11,5	121	222
12x1	15.2	223	381
12x1	15,2	223	381
16x1	16.8	274	471
16x1	16,8	274	471
19x1	17.7	310	526
19x1	17,7	310	526
24x1	20.6	379	651
24x1	20,6	379	651
27x1	21.0	411	702
27x1	21,0	411	702
37x1	23.5	528	896
37x1	23,5	528	896
1x1.5	6.0	41	75
1x1.5	6,0	41	75
2x1.5	9.2	72	141
2x1.5	9,2	72	141
3x1.5	9.6	89	159
3x1.5	9,6	89	159
4x1.5	10.5	107	188
4x1.5	10,5	107	188
5x1.5	11.4	125	224
5x1.5	11,4	125	224
7x1.5	12.3	160	273
7x1.5	12,3	160	273
12x1.5	16.5	288	466
12x1.5	16,5	288	466
16x1.5	18.2	357	580
16x1.5	18,2	357	580
19x1.5	19.1	408	652
19x1.5	19,1	408	652
24x1.5	22.3	502	811

24x1.5	22,3	502	811
27x1.5	22,9	549	879
27x1.5	22,9	549	879
37x1.5	25,6	713	1132
37x1.5	25,6	713	1132
1x2.5	6,4	53	90
1x2.5	6,4	53	90
2x2.5	10,1	95	177
2x2.5	10,1	95	177
3x2.5	10,7	121	201
3x2.5	10,7	121	201
4x2.5	11,6	148	242
4x2.5	11,6	148	242
5x2.5	12,6	176	291
5x2.5	12,6	176	291
7x2.5	14,2	261	397
7x2.5	14,2	261	397
12x2.5	18,4	407	617
12x2.5	18,4	407	617
16x2.5	20,3	513	778
16x2.5	20,3	513	778
19x2.5	21,4	591	880
19x2.5	21,4	591	880
24x2.5	25,0	734	1100
24x2.5	25,0	734	1100
27x2.5	25,6	808	1200
27x2.5	25,6	808	1200
37x2.5	28,7	1061	1561
37x2.5	28,7	1061	1561
1x4	6,9	69	111
1x4	6,9	69	111
2x4	11,1	127	224
2x4	11,1	127	224
3x4	11,9	168	262
3x4	11,9	168	262
4x4	13,0	208	318
4x4	13,0	208	318
1x6	7,6	91	138
1x6	7,6	91	138
2x6	12,4	172	287
2x6	12,4	172	287
3x6	13,2	229	338
3x6	13,2	229	338
4x6	14,8	325	458
4x6	14,8	325	458
1x10	8,4	134	188

1x10	8,4	134	188
2x10	14,4	288	433
2x10	14,4	288	433
3x10	15,4	388	522
3x10	15,4	388	522
4x10	16,8	492	652
4x10	16,8	492	652
1x16	9,3	192	255
1x16	9,3	192	255
2x16	18,4	421	770
2x16	18,4	421	770
3x16	19,5	577	934
3x16	19,5	577	934
4x16	21,2	736	1146
4x16	21,2	736	1146
1x25	11,1	288	374
1x25	11,1	288	374
2x25	22,0	619	1117
2x25	22,0	619	1117
3x25	23,4	863	1370
3x25	23,4	863	1370
4x25	25,6	1113	1698
4x25	25,6	1113	1698
1x35	12,2	382	480
1x35	12,2	382	480
2x35	24,2	812	1406
2x35	24,2	812	1406
3x35	25,8	1145	1747
3x35	25,8	1145	1747
4x35	28,2	1484	2179
4x35	28,2	1484	2179
1x50	14,1	524	647
1x50	14,1	524	647
2x50	27,0	1046	1783
2x50	27,0	1046	1783
3x50	28,9	1489	2233
3x50	28,9	1489	2233
4x50	31,7	1936	2796
4x50	31,7	1936	2796
1x70	17,0	754	914
1x70	17,0	754	914
2x70	33,2	1509	2607
2x70	33,2	1509	2607
3x70	35,9	2246	3352
3x70	35,9	2246	3352
4x70	39,5	2910	4188

4x70	39,5	2910	4188
1x95	17,9	978	1154
1x95	17,9	978	1154
2x95	35,2	1955	3183
2x95	35,2	1955	3183
3x95	38,0	2915	4145
3x95	38,0	2915	4145
4x95	41,9	3803	5229
4x95	41,9	3803	5229
1x120	20,0	1360	1570
1x120	20,0	1360	1570
3x120	42,4	4058	5568
3x120	42,4	4058	5568
4x120	47,2	5318	7127
4x120	47,2	5318	7127
1x150	21,8	1536	1784
1x150	21,8	1536	1784
3x150	46,8	4585	6446
3x150	46,8	4585	6446
4x150	51,7	6018	8178
4x150	51,7	6018	8178
1x185	24,3	1822	2123
1x185	24,3	1822	2123
3x185	52,1	5443	7729
3x185	52,1	5443	7729
1x240	28,6	2360	2741
1x240	28,6	2360	2741
3x240	61,8	7079	10229
3x240	61,8	7079	10229
1x300	29,7	3257	3673
1x300	29,7	3257	3673

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