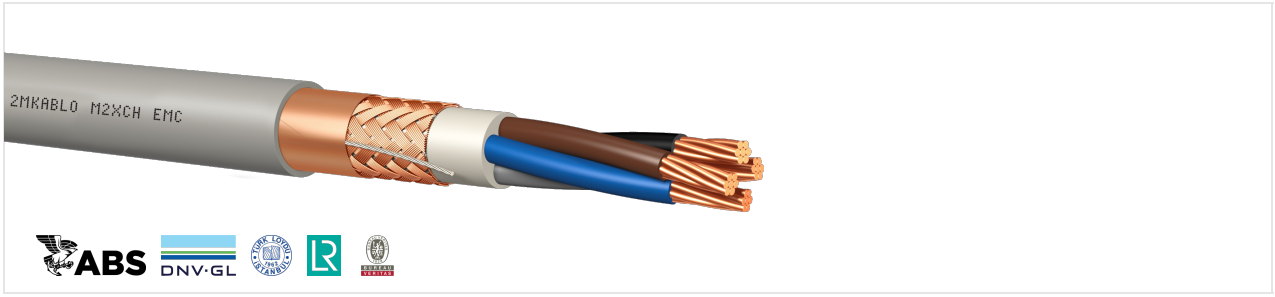
M2XCH EMC



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.

Cable Construction

Conductor	Stranded Annealed Copper (IEC/EN 60228, Class 2) (tinned copper and/or Class 5 versions are available upon request)
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 / Separator	PET Foil (HFFR filler upon request)
Overall Screen	Annealed Copper Wire Braiding (90% Coverage) and Copper Tape with Drain Wire
Outer Sheath	HFFR (IEC 60092-360 SHF1), RAL 9005 - Black or RAL 7001 - Grey
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)
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) (± 5%)	Copper Weight (kg / km)	~ Cable Weight (kg / km)
1x1	5.9	35	50
2x1	8.8	60	120
3x1	9.3	72	100
4x1	10.0	86	120
5x1	10.8	100	185
7x1	11.8	124	176

12x1	15.5	227	281
16x1	17.1	278	475
19x1	18.0	314	407
24x1	21.0	385	511
27x1	21.4	418	559
37x1	23.9	535	734
1x1.5	6.2	42	57
2x1.5	9.4	73	140
3x1.5	9.9	90	120
4x1.5	10.7	106	145
5x1.5	11.7	126	223
7x1.5	12.6	161	219
12x1.5	16.8	291	356
16x1.5	18.5	361	585
19x1.5	19.5	411	522
24x1.5	22.7	507	656
27x1.5	23.3	554	721
37x1.5	26.0	718	952
1x2.5	6.6	54	70
2x2.5	10.3	95	173
3x2.5	10.9	121	158
4x2.5	11.9	151	195
5x2.5	12.8	178	290
7x2.5	14.4	262	305
12x2.5	18.7	410	494
16x2.5	20.7	518	783
19x2.5	21.8	596	734
24x2.5	25.4	739	925
27x2.5	26.0	813	1020
37x2.5	29.2	1068	1358
1x4	7.1	70	88
2x4	11.3	128	221
3x4	12.1	169	212
4x4	13.2	209	264
1x6	7.8	91	113
2x6	12.6	173	285
3x6	13.4	231	283
4x6	15.1	327	362
1x10	8.6	134	158
2x10	14.6	289	433
3x10	15.6	390	423
4x10	17.1	494	542
1x16	9.5	192	221
2x16	18.6	422	622
3x16	19.7	578	804
4x16	21.4	738	1003

1x25	11.3	287	330
2x25	22.2	622	907
3x25	23.6	865	1212
4x25	25.8	1116	1522
1x35	12.4	381	431
2x35	24.4	815	1153
3x35	26.0	1148	1571
4x35	28.5	1487	1984
1x50	14.3	527	562
2x50	27.2	1047	1465
3x50	29.1	1488	2030
4x50	31.9	1936	2572
1x70	17.1	757	810
2x70	33.0	1512	2103
3x70	36.1	2265	3018
4x70	39.7	2920	3825
1x95	18.1	978	1038
2x95	35.4	1963	2633
3x95	38.2	2918	3781
4x95	42.1	3808	4825
1x120	20.2	1362	1442
3x120	42.7	4064	5168
4x120	47.4	5329	6684
1x150	22.0	1538	1644
3x150	47.0	4595	6007
4x150	51.9	6024	7687
1x185	24.5	1826	1965
3x185	52.3	5456	7237
1x240	28.8	2371	2561
3x240	62.0	7094	9642
1x300	29.9	3260	3477

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