

## M2XSH



### 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

<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 $\geq 5$ => White numbered)
<b>Lay-up</b>	Cores are stranded in layers
<b>Inner Sheath</b>	HFFR
<b>Armour</b>	Galvanised Steel Wire Braid
<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. $\Omega$ xkm
<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/mm <sup>2</sup> )	Cable Diameter (mm) ( $\pm 5\%$ )	Copper Weight (kg / km)	~ Cable Weight (kg / km)
1x1	7.6	10	120
1x1	7,6	10	120
2x1	10.4	20	191
2x1	10,4	20	191
3x1	10.9	29	213

3x1	10,9	29	213
4x1	11.7	39	243
4x1	11,7	39	243
5x1	12.5	49	275
5x1	12,5	49	275
7x1	13.5	69	321
7x1	13,5	69	321
12x1	17.0	118	480
12x1	17,0	118	480
16x1	18.7	157	588
16x1	18,7	157	588
19x1	19.6	187	653
19x1	19,6	187	653
24x1	22.7	236	813
24x1	22,7	236	813
27x1	23.2	265	870
27x1	23,2	265	870
37x1	25.7	364	1096
37x1	25,7	364	1096
1x1.5	7.9	14	132
1x1.5	7,9	14	132
2x1.5	11.1	29	220
2x1.5	11,1	29	220
3x1.5	11.6	43	242
3x1.5	11,6	43	242
4x1.5	12.4	57	281
4x1.5	12,4	57	281
5x1.5	13.4	72	324
5x1.5	13,4	72	324
7x1.5	14.4	101	380
7x1.5	14,4	101	380
12x1.5	18.4	172	581
12x1.5	18,4	172	581
16x1.5	20.2	230	717
16x1.5	20,2	230	717
19x1.5	21.2	273	799
19x1.5	21,2	273	799
24x1.5	24.6	345	997
24x1.5	24,6	345	997
27x1.5	25.1	388	1074
27x1.5	25,1	388	1074
37x1.5	27.9	532	1366
37x1.5	27,9	532	1366
1x2.5	8.3	23	155
1x2.5	8,3	23	155
2x2.5	12.0	46	265
2x2.5	12,0	46	265

3x2.5	12.6	69	299
3x2.5	12,6	69	299
4x2.5	13.6	93	352
4x2.5	13,6	93	352
5x2.5	14.7	116	408
5x2.5	14,7	116	408
7x2.5	15.8	162	487
7x2.5	15,8	162	487
12x2.5	20.3	278	755
12x2.5	20,3	278	755
16x2.5	22.4	370	943
16x2.5	22,4	370	943
19x2.5	23.5	440	1059
19x2.5	23,5	440	1059
24x2.5	27.4	556	1328
24x2.5	27,4	556	1328
27x2.5	27.9	625	1438
27x2.5	27,9	625	1438
37x2.5	31.3	857	1849
37x2.5	31,3	857	1849
1x4	8.8	37	183
1x4	8,8	37	183
2x4	13.1	73	327
2x4	13,1	73	327
3x4	13.9	110	378
3x4	13,9	110	378
4x4	15.0	146	451
4x4	15,0	146	451
1x6	9.4	55	223
1x6	9,4	55	223
2x6	14.4	111	410
2x6	14,4	111	410
3x6	15.2	166	480
3x6	15,2	166	480
4x6	16.6	221	578
4x6	16,6	221	578
1x10	10.2	93	293
1x10	10,2	93	293
2x10	16.0	187	546
2x10	16,0	187	546
3x10	17.1	280	658
3x10	17,1	280	658
4x10	18.6	374	805
4x10	18,6	374	805
1x16	11.2	147	388
1x16	11,2	147	388

2x16	18.1	294	736
2x16	18,1	294	736
3x16	19.2	441	902
3x16	19,2	441	902
4x16	21.0	588	1118
4x16	21,0	588	1118
1x25	13.1	233	564
1x25	13,1	233	564
2x25	21.9	466	1092
2x25	21,9	466	1092
3x25	23.3	699	1348
3x25	23,3	699	1348
4x25	25.6	932	1684
4x25	25,6	932	1684
1x35	14.2	321	711
1x35	14,2	321	711
2x35	24.2	643	1386
2x35	24,2	643	1386
3x35	25.9	964	1733
3x35	25,9	964	1733
4x35	28.5	1285	2176
4x35	28,5	1285	2176
1x50	15.7	427	903
1x50	15,7	427	903
2x50	27.2	855	1777
2x50	27,2	855	1777
3x50	29.1	1282	2229
3x50	29,1	1282	2229
4x50	32.1	1709	2810
4x50	32,1	1709	2810
1x70	18.7	636	1317
1x70	18,7	636	1317
2x70	33.1	1273	2593
2x70	33,1	1273	2593
3x70	35.9	1909	3344
3x70	35,9	1909	3344
4x70	39.6	2545	4217
4x70	39,6	2545	4217
1x95	19.8	849	1605
1x95	19,8	849	1605
2x95	35.7	1699	3256
2x95	35,7	1699	3256
3x95	38.2	2548	4134
3x95	38,2	2548	4134
4x95	42.2	3398	5248
4x95	42,2	3398	5248

1x120	21.9	1219	2146
1x120	21,9	1219	2146
3x120	42.8	3657	5594
3x120	42,8	3657	5594
4x120	47.3	4876	7131
4x120	47,3	4876	7131
1x150	23.8	1382	2485
1x150	23,8	1382	2485
3x150	46.9	4145	6444
3x150	46,9	4145	6444
4x150	52.0	5527	8217
4x150	52,0	5527	8217
1x185	26.4	1651	3013
1x185	26,4	1651	3013
3x185	52.5	4952	7781
3x185	52,5	4952	7781
1x240	30.8	2165	4033
1x240	30,8	2165	4033
3x240	62.0	6495	10328
3x240	62,0	6495	10328
1x300	32.1	3045	5062
1x300	32,1	3045	5062

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