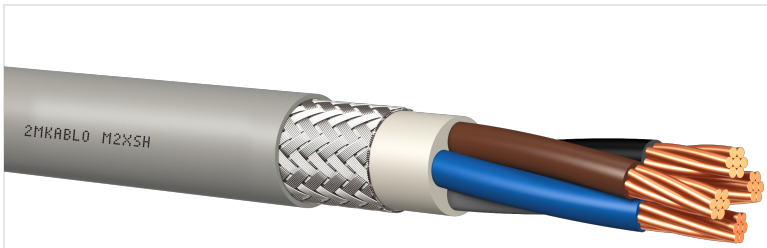
# M2XSH




## 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

| | |
|---|---|
| **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** | HFFR |
| **Armour** | Galvanised Steel Wire Braid |
| **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/mm²) | Cable Diameter (mm) (± 5%) | Copper Weight (kg / km) | ~ Cable Weight (kg / km) |
|---|---|---|---|
| 1x1 | 7.6 | 10 | 120 |
| 2x1 | 10.4 | 20 | 191 |
| 3x1 | 10.9 | 29 | 213 |
| 4x1 | 11.7 | 39 | 243 |
| 5x1 | 12.5 | 49 | 275 |

| | | | |
|---|---|---|---|
| 7x1 | 13.5 | 69 | 321 |
| 12x1 | 17.0 | 118 | 480 |
| 16x1 | 18.7 | 157 | 588 |
| 19x1 | 19.6 | 187 | 653 |
| 24x1 | 22.7 | 236 | 813 |
| 27x1 | 23.2 | 265 | 870 |
| 37x1 | 25.7 | 364 | 1096 |
| 1x1.5 | 7.9 | 14 | 132 |
| 2x1.5 | 11.1 | 29 | 220 |
| 3x1.5 | 11.6 | 43 | 242 |
| 4x1.5 | 12.4 | 57 | 281 |
| 5x1.5 | 13.4 | 72 | 324 |
| 7x1.5 | 14.4 | 101 | 380 |
| 12x1.5 | 18.4 | 172 | 581 |
| 16x1.5 | 20.2 | 230 | 717 |
| 19x1.5 | 21.2 | 273 | 799 |
| 24x1.5 | 24.6 | 345 | 997 |
| 27x1.5 | 25.1 | 388 | 1074 |
| 37x1.5 | 27.9 | 532 | 1366 |
| 1x2.5 | 8.3 | 23 | 155 |
| 2x2.5 | 12.0 | 46 | 265 |
| 3x2.5 | 12.6 | 69 | 299 |
| 4x2.5 | 13.6 | 93 | 352 |
| 5x2.5 | 14.7 | 116 | 408 |
| 7x2.5 | 15.8 | 162 | 487 |
| 12x2.5 | 20.3 | 278 | 755 |
| 16x2.5 | 22.4 | 370 | 943 |
| 19x2.5 | 23.5 | 440 | 1059 |
| 24x2.5 | 27.4 | 556 | 1328 |
| 27x2.5 | 27.9 | 625 | 1438 |
| 37x2.5 | 31.3 | 857 | 1849 |
| 1x4 | 8.8 | 37 | 183 |
| 2x4 | 13.1 | 73 | 327 |
| 3x4 | 13.9 | 110 | 378 |
| 4x4 | 15.0 | 146 | 451 |
| 1x6 | 9.4 | 55 | 223 |
| 2x6 | 14.4 | 111 | 410 |
| 3x6 | 15.2 | 166 | 480 |
| 4x6 | 16.6 | 221 | 578 |
| 1x10 | 10.2 | 93 | 293 |
| 2x10 | 16.0 | 187 | 546 |
| 3x10 | 17.1 | 280 | 658 |
| 4x10 | 18.6 | 374 | 805 |
| 1x16 | 11.2 | 147 | 388 |
| 2x16 | 18.1 | 294 | 736 |
| 3x16 | 19.2 | 441 | 902 |
| 4x16 | 21.0 | 588 | 1118 |

| | | | |
|---|---|---|---|
| 1x25 | 13.1 | 233 | 564 |
| 2x25 | 21.9 | 466 | 1092 |
| 3x25 | 23.3 | 699 | 1348 |
| 4x25 | 25.6 | 932 | 1684 |
| 1x35 | 14.2 | 321 | 711 |
| 2x35 | 24.2 | 643 | 1386 |
| 3x35 | 25.9 | 964 | 1733 |
| 4x35 | 28.5 | 1285 | 2176 |
| 1x50 | 15.7 | 427 | 903 |
| 2x50 | 27.2 | 855 | 1777 |
| 3x50 | 29.1 | 1282 | 2229 |
| 4x50 | 32.1 | 1709 | 2810 |
| 1x70 | 18.7 | 636 | 1317 |
| 2x70 | 33.1 | 1273 | 2593 |
| 3x70 | 35.9 | 1909 | 3344 |
| 4x70 | 39.6 | 2545 | 4217 |
| 1x95 | 19.8 | 849 | 1605 |
| 2x95 | 35.7 | 1699 | 3256 |
| 3x95 | 38.2 | 2548 | 4134 |
| 4x95 | 42.2 | 3398 | 5248 |
| 1x120 | 21.9 | 1219 | 2146 |
| 3x120 | 42.8 | 3657 | 5594 |
| 4x120 | 47.3 | 4876 | 7131 |
| 1x150 | 23.8 | 1382 | 2485 |
| 3x150 | 46.9 | 4145 | 6444 |
| 4x150 | 52.0 | 5527 | 8217 |
| 1x185 | 26.4 | 1651 | 3013 |
| 3x185 | 52.5 | 4952 | 7781 |
| 1x240 | 30.8 | 2165 | 4033 |
| 3x240 | 62.0 | 6495 | 10328 |
| 1x300 | 32.1 | 3045 | 5062 |

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