# FM2XCH




## Areas of Use

Used for communication and instrumentation purpose in electronic systems of marine vehicles. Screening layer protects the transmitting signal against electromagnetic interferences. Halogen-Free and Flame Retardant construction ensure 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** | Pair: Black / White, Numbered Quad: Black / White / Red / Blue, Numbered |
| **Lay-up** | Cores / pairs / triples / quads are stranded in layers |
| **Separator** | PET Foil (HFFR filler upon request) |
| **Overall Screen** | Annealed Copper Wire Braiding (90% Coverage) |
| **Outer Sheath** | HFFR (IEC 60092-360 SHF1), RAL 9005 - Black or RAL 7001 - Grey |
| **Reference Standards** | IEC 60092-376 |

## Technical Properties

| | |
|---|---|
| **Operating Voltage** | 150/250 (300) V |
| **Test Voltage** | 1.5 kV (a.c) 3.6 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) |
|---|---|---|---|
| 1x2x0.5 | 6.1 | 30 | 66 |
| 1x3x0.5 | 6.4 | 37 | 72 |
| 1x4x0.5 | 6.8 | 43 | 83 |
| 2x2x0.5 | 8.4 | 53 | 103 |

| | | | |
|---|---|---|---|
| 2x3x0.5 | 9.3 | 65 | 125 |
| 2x4x0.5 | 11.2 | 84 | 163 |
| 3x2x0.5 | 8.9 | 63 | 120 |
| 3x3x0.5 | 9.8 | 83 | 153 |
| 3x4x0.5 | 12.0 | 107 | 198 |
| 4x2x0.5 | 9.7 | 77 | 143 |
| 4x3x0.5 | 10.8 | 100 | 182 |
| 4x4x0.5 | 13.4 | 163 | 275 |
| 5x2x0.5 | 10.5 | 90 | 168 |
| 5x3x0.5 | 11.7 | 121 | 216 |
| 5x4x0.5 | 14.6 | 189 | 322 |
| 7x2x0.5 | 11.4 | 113 | 204 |
| 7x3x0.5 | 13.0 | 153 | 267 |
| 7x4x0.5 | 16.0 | 240 | 397 |
| 10x2x0.5 | 14.7 | 189 | 320 |
| 10x3x0.5 | 16.4 | 252 | 417 |
| 12x2x0.5 | 15.1 | 212 | 355 |
| 16x2x0.5 | 16.7 | 265 | 439 |
| 19x2x0.5 | 17.7 | 295 | 487 |
| 24x2x0.5 | 20.6 | 372 | 614 |
| 27x2x0.5 | 21.1 | 404 | 663 |
| 37x2x0.5 | 23.6 | 518 | 842 |
| 1x2x0.75 | 6.9 | 39 | 83 |
| 1x3x0.75 | 7.4 | 48 | 92 |
| 1x4x0.75 | 7.9 | 58 | 109 |
| 2x2x0.75 | 9.8 | 68 | 132 |
| 2x3x0.75 | 11.0 | 87 | 165 |
| 2x4x0.75 | 13.6 | 143 | 251 |
| 3x2x0.75 | 10.5 | 84 | 159 |
| 3x3x0.75 | 11.6 | 112 | 204 |
| 3x4x0.75 | 14.5 | 180 | 307 |
| 4x2x0.75 | 11.4 | 104 | 191 |
| 4x3x0.75 | 12.7 | 140 | 249 |
| 4x4x0.75 | 15.9 | 220 | 370 |
| 5x2x0.75 | 12.5 | 124 | 229 |
| 5x3x0.75 | 14.1 | 199 | 333 |
| 5x4x0.75 | 17.5 | 261 | 441 |
| 7x2x0.75 | 13.8 | 190 | 315 |
| 7x3x0.75 | 15.4 | 250 | 410 |
| 7x4x0.75 | 19.1 | 326 | 543 |
| 10x2x0.75 | 17.6 | 258 | 436 |
| 10x3x0.75 | 19.7 | 349 | 577 |
| 12x2x0.75 | 18.1 | 290 | 485 |
| 16x2x0.75 | 20.1 | 365 | 606 |
| 19x2x0.75 | 21.2 | 419 | 686 |
| 24x2x0.75 | 25.0 | 513 | 853 |

| | | | |
|---|---|---|---|
| 27x2x0.75 | 25.5 | 560 | 924 |
| 37x2x0.75 | 28.6 | 727 | 1187 |
| 1x2x1 | 7.4 | 46 | 94 |
| 1x3x1 | 7.8 | 58 | 105 |
| 1x4x1 | 8.4 | 70 | 125 |
| 2x2x1 | 10.5 | 80 | 150 |
| 2x3x1 | 11.6 | 106 | 191 |
| 2x4x1 | 14.6 | 172 | 290 |
| 3x2x1 | 11.1 | 103 | 184 |
| 3x3x1 | 12.4 | 138 | 238 |
| 3x4x1 | 15.5 | 216 | 355 |
| 4x2x1 | 12.2 | 129 | 225 |
| 4x3x1 | 13.8 | 204 | 327 |
| 4x4x1 | 17.0 | 270 | 436 |
| 5x2x1 | 13.6 | 184 | 302 |
| 5x3x1 | 15.1 | 244 | 392 |
| 5x4x1 | 18.7 | 315 | 514 |
| 7x2x1 | 14.8 | 231 | 369 |
| 7x3x1 | 16.5 | 313 | 489 |
| 7x4x1 | 20.5 | 413 | 652 |
| 10x2x1 | 18.7 | 319 | 516 |
| 10x3x1 | 21.1 | 430 | 683 |
| 12x2x1 | 19.4 | 359 | 575 |
| 16x2x1 | 21.6 | 459 | 727 |
| 19x2x1 | 22.8 | 523 | 820 |
| 24x2x1 | 26.9 | 650 | 1030 |
| 27x2x1 | 27.4 | 710 | 1115 |
| 37x2x1 | 30.9 | 927 | 1441 |
| 1x2x1.5 | 8.3 | 60 | 120 |
| 1x3x1.5 | 8.9 | 77 | 136 |
| 1x4x1.5 | 9.6 | 95 | 164 |
| 2x2x1.5 | 12.2 | 107 | 196 |
| 2x3x1.5 | 13.8 | 177 | 291 |
| 2x4x1.5 | 17.0 | 226 | 380 |
| 3x2x1.5 | 13.2 | 140 | 245 |
| 3x3x1.5 | 14.7 | 226 | 361 |
| 3x4x1.5 | 18.1 | 290 | 473 |
| 4x2x1.5 | 14.5 | 209 | 338 |
| 4x3x1.5 | 16.2 | 276 | 439 |
| 4x4x1.5 | 20.1 | 363 | 584 |
| 5x2x1.5 | 15.8 | 248 | 402 |
| 5x3x1.5 | 17.7 | 330 | 526 |
| 5x4x1.5 | 22.1 | 437 | 703 |
| 7x2x1.5 | 17.3 | 316 | 499 |
| 7x3x1.5 | 19.4 | 432 | 668 |
| 7x4x1.5 | 24.2 | 566 | 889 |

| | | | |
|---|---|---|---|
| 10x2x1.5 | 22.1 | 437 | 700 |
| 10x3x1.5 | 25.0 | 598 | 939 |
| 12x2x1.5 | 22.9 | 552 | 848 |
| 16x2x1.5 | 25.5 | 630 | 991 |
| 19x2x1.5 | 27.0 | 727 | 1130 |
| 24x2x1.5 | 31.9 | 905 | 1423 |
| 27x2x1.5 | 32.6 | 993 | 1550 |
| 37x2x1.5 | 36.7 | 1397 | 2116 |
| 1x2x2.5 | 9.3 | 82 | 153 |
| 1x3x2.5 | 9.8 | 108 | 177 |
| 1x4x2.5 | 10.7 | 135 | 216 |
| 2x2x2.5 | 13.9 | 181 | 290 |
| 2x3x2.5 | 15.5 | 241 | 376 |
| 2x4x2.5 | 19.2 | 316 | 499 |
| 3x2x2.5 | 14.8 | 232 | 360 |
| 3x3x2.5 | 16.5 | 319 | 480 |
| 3x4x2.5 | 20.5 | 412 | 631 |
| 4x2x2.5 | 16.2 | 289 | 441 |
| 4x3x2.5 | 18.2 | 399 | 593 |
| 4x4x2.5 | 22.6 | 521 | 787 |
| 5x2x2.5 | 17.8 | 348 | 532 |
| 5x3x2.5 | 20.1 | 481 | 716 |
| 5x4x2.5 | 25.0 | 629 | 949 |
| 7x2x2.5 | 19.5 | 454 | 672 |
| 7x3x2.5 | 21.9 | 633 | 915 |
| 7x4x2.5 | 27.5 | 830 | 1221 |
| 10x2x2.5 | 25.1 | 630 | 947 |
| 10x3x2.5 | 28.3 | 883 | 1297 |
| 12x2x2.5 | 26.0 | 795 | 1151 |
| 16x2x2.5 | 29.0 | 933 | 1372 |
| 19x2x2.5 | 30.7 | 1083 | 1572 |
| 24x2x2.5 | 36.3 | 1453 | 2093 |
| 27x2x2.5 | 37.2 | 1595 | 2281 |
| 37x2x2.5 | 41.9 | 2091 | 2969 |

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