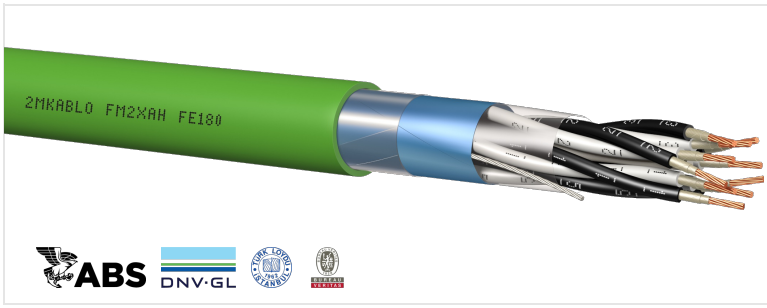
# FM2XAH FE180




## 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. Also, min.180 minutes of circuit integrity under fire conditions is achieved by its special design.

## Cable Construction

| | |
|---|---|
| **Conductor** | Stranded Annealed Copper (IEC/EN 60228, Class 2) (tinned copper and/or Class 5 versions are available upon request) |
| **Flame Barrier** | Mica Tape |
| **Insulation** | XLPE (IEC 60092-360) |
| **Core Colors** | Pair: Black / White, Numbered Quad: Black / White / Red / Blue, Numbered |
| **Lay-up** | Cores are twisted as pairs and pairs are stranded in layers |
| **Separator** | PET Foil |
| **Overall Screen** | Al-PET Foil (with Tinned Copper Drain Wire) |
| **Outer Sheath** | HFFR (IEC 60092-360 SHF1), RAL 6018 - Green |
| **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) |
| **Fire Resistance** | IEC 60331-21 |
| **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 | 6.7 | 13 | 53 |
| 1x3x0.5 | 7.1 | 18 | 64 |
| 1x4x0.5 | 7.6 | 22 | 76 |

| | | | |
|---|---|---|---|
| 2x2x0.5 | 9.6 | 22 | 89 |
| 2x3x0.5 | 10.7 | 32 | 114 |
| 2x4x0.5 | 13.1 | 41 | 150 |
| 3x2x0.5 | 10.2 | 32 | 111 |
| 3x3x0.5 | 11.4 | 46 | 144 |
| 3x4x0.5 | 14.1 | 60 | 191 |
| 4x2x0.5 | 11.2 | 41 | 135 |
| 4x3x0.5 | 12.5 | 60 | 179 |
| 4x4x0.5 | 15.4 | 79 | 237 |
| 5x2x0.5 | 12.2 | 51 | 159 |
| 5x3x0.5 | 13.7 | 74 | 213 |
| 5x4x0.5 | 17.0 | 98 | 284 |
| 7x2x0.5 | 13.4 | 70 | 202 |
| 7x3x0.5 | 15.0 | 103 | 275 |
| 7x4x0.5 | 18.7 | 136 | 366 |
| 10x2x0.5 | 17.1 | 98 | 284 |
| 10x3x0.5 | 19.3 | 145 | 389 |
| 12x2x0.5 | 17.6 | 117 | 323 |
| 16x2x0.5 | 19.7 | 155 | 410 |
| 19x2x0.5 | 20.8 | 183 | 471 |
| 24x2x0.5 | 24.5 | 231 | 593 |
| 27x2x0.5 | 25.2 | 259 | 650 |
| 37x2x0.5 | 28.3 | 354 | 853 |
| 1x2x0.75 | 7.5 | 19 | 68 |
| 1x3x0.75 | 8.0 | 26 | 83 |
| 1x4x0.75 | 8.6 | 34 | 100 |
| 2x2x0.75 | 11.0 | 34 | 116 |
| 2x3x0.75 | 12.3 | 48 | 151 |
| 2x4x0.75 | 15.2 | 62 | 198 |
| 3x2x0.75 | 11.7 | 48 | 146 |
| 3x3x0.75 | 13.1 | 70 | 194 |
| 3x4x0.75 | 16.3 | 91 | 257 |
| 4x2x0.75 | 12.8 | 62 | 179 |
| 4x3x0.75 | 14.4 | 91 | 241 |
| 4x4x0.75 | 17.9 | 120 | 321 |
| 5x2x0.75 | 14.1 | 77 | 214 |
| 5x3x0.75 | 15.9 | 113 | 290 |
| 5x4x0.75 | 19.8 | 149 | 386 |
| 7x2x0.75 | 15.4 | 106 | 274 |
| 7x3x0.75 | 17.4 | 156 | 377 |
| 7x4x0.75 | 21.8 | 207 | 504 |
| 10x2x0.75 | 19.9 | 149 | 388 |
| 10x3x0.75 | 22.4 | 221 | 536 |
| 12x2x0.75 | 20.6 | 178 | 443 |
| 16x2x0.75 | 23.0 | 235 | 565 |
| 19x2x0.75 | 24.3 | 279 | 653 |

| | | | |
|---|---|---|---|
| 24x2x0.75 | 28.8 | 351 | 824 |
| 27x2x0.75 | 29.4 | 394 | 905 |
| 37x2x0.75 | 33.2 | 538 | 1196 |
| 1x2x1 | 7.9 | 27 | 78 |
| 1x3x1 | 8.3 | 36 | 97 |
| 1x4x1 | 9.2 | 46 | 117 |
| 2x2x1 | 11.7 | 46 | 135 |
| 2x3x1 | 13.0 | 66 | 177 |
| 2x4x1 | 16.2 | 85 | 233 |
| 3x2x1 | 12.4 | 66 | 171 |
| 3x3x1 | 13.9 | 95 | 229 |
| 3x4x1 | 17.2 | 124 | 304 |
| 4x2x1 | 13.7 | 85 | 212 |
| 4x3x1 | 15.3 | 124 | 287 |
| 4x4x1 | 19.1 | 163 | 382 |
| 5x2x1 | 14.9 | 105 | 253 |
| 5x3x1 | 16.8 | 153 | 346 |
| 5x4x1 | 21.1 | 202 | 461 |
| 7x2x1 | 16.4 | 144 | 327 |
| 7x3x1 | 18.5 | 212 | 452 |
| 7x4x1 | 23.2 | 280 | 604 |
| 10x2x1 | 21.1 | 202 | 462 |
| 10x3x1 | 23.9 | 299 | 642 |
| 12x2x1 | 21.9 | 241 | 531 |
| 16x2x1 | 24.4 | 319 | 679 |
| 19x2x1 | 25.9 | 377 | 785 |
| 24x2x1 | 30.6 | 474 | 993 |
| 27x2x1 | 31.3 | 533 | 1093 |
| 37x2x1 | 35.4 | 728 | 1450 |
| 1x2x1.5 | 8.9 | 36 | 98 |
| 1x3x1.5 | 9.5 | 50 | 123 |
| 1x4x1.5 | 10.3 | 64 | 151 |
| 2x2x1.5 | 13.3 | 64 | 174 |
| 2x3x1.5 | 14.8 | 93 | 229 |
| 2x4x1.5 | 18.5 | 121 | 304 |
| 3x2x1.5 | 14.1 | 93 | 224 |
| 3x3x1.5 | 15.9 | 135 | 303 |
| 3x4x1.5 | 19.8 | 178 | 403 |
| 4x2x1.5 | 15.6 | 121 | 279 |
| 4x3x1.5 | 17.5 | 178 | 382 |
| 4x4x1.5 | 21.9 | 235 | 511 |
| 5x2x1.5 | 17.1 | 150 | 335 |
| 5x3x1.5 | 19.3 | 221 | 464 |
| 5x4x1.5 | 24.2 | 292 | 621 |
| 7x2x1.5 | 18.8 | 207 | 437 |
| 7x3x1.5 | 21.2 | 306 | 611 |

| | | | |
|---|---|---|---|
| 7x4x1.5 | 26.7 | 406 | 819 |
| 10x2x1.5 | 24.3 | 292 | 622 |
| 10x3x1.5 | 27.6 | 434 | 873 |
| 12x2x1.5 | 25.3 | 349 | 717 |
| 16x2x1.5 | 28.2 | 463 | 924 |
| 19x2x1.5 | 29.9 | 548 | 1074 |
| 24x2x1.5 | 35.4 | 690 | 1358 |
| 27x2x1.5 | 36.3 | 776 | 1499 |
| 37x2x1.5 | 41.1 | 1061 | 1997 |
| 1x2x2.5 | 9.8 | 54 | 125 |
| 1x3x2.5 | 10.4 | 77 | 161 |
| 1x4x2.5 | 11.4 | 100 | 201 |
| 2x2x2.5 | 14.7 | 100 | 226 |
| 2x3x2.5 | 16.5 | 146 | 305 |
| 2x4x2.5 | 20.7 | 192 | 406 |
| 3x2x2.5 | 15.7 | 146 | 298 |
| 3x3x2.5 | 17.7 | 215 | 411 |
| 3x4x2.5 | 22.1 | 284 | 547 |
| 4x2x2.5 | 17.3 | 192 | 376 |
| 4x3x2.5 | 19.5 | 284 | 523 |
| 4x4x2.5 | 24.6 | 375 | 699 |
| 5x2x2.5 | 19.1 | 238 | 455 |
| 5x3x2.5 | 21.5 | 352 | 636 |
| 5x4x2.5 | 27.2 | 467 | 854 |
| 7x2x2.5 | 21.0 | 329 | 600 |
| 7x3x2.5 | 23.7 | 490 | 849 |
| 7x4x2.5 | 29.9 | 650 | 1139 |
| 10x2x2.5 | 27.3 | 467 | 855 |
| 10x3x2.5 | 30.9 | 696 | 1214 |
| 12x2x2.5 | 28.2 | 559 | 993 |
| 16x2x2.5 | 31.7 | 742 | 1287 |
| 19x2x2.5 | 33.6 | 880 | 1500 |
| 24x2x2.5 | 39.8 | 1109 | 1900 |
| 27x2x2.5 | 40.8 | 1247 | 2104 |
| 37x2x2.5 | 46.1 | 1705 | 2817 |

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