

FM2XH(I) 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 ensures 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 5) (tinned copper and/or Class 2 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 |
| 1. Separator | PET Foil |
| Individual Screen | Al-PET Foil (with Tinned Copper Drain Wire) |
| 2. Separator | PET Foil |
| Lay-up | Shielded pairs / triples are stranded in layers |
| Separator | PET Foil (HFFR filler upon request) |
| 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/mm ²) | Cable Diameter (mm) (± 5%) | Copper Weight (kg / km) | ~ Cable Weight (kg / km) |
|--|----------------------------|-------------------------|--------------------------|
| 2x2x0.5 | 11.4 | 26 | 111 |

| | | | |
|----------|------|-----|-----|
| 2x2x0.5 | 11,4 | 26 | 111 |
| 2x3x0.5 | 12,6 | 35 | 141 |
| 2x3x0.5 | 12,6 | 35 | 141 |
| 2x4x0.5 | 14,7 | 45 | 175 |
| 2x4x0.5 | 14,7 | 45 | 175 |
| 3x2x0.5 | 12,2 | 38 | 142 |
| 3x2x0.5 | 12,2 | 38 | 142 |
| 3x3x0.5 | 13,4 | 53 | 183 |
| 3x3x0.5 | 13,4 | 53 | 183 |
| 3x4x0.5 | 15,7 | 67 | 229 |
| 3x4x0.5 | 15,7 | 67 | 229 |
| 4x2x0.5 | 13,4 | 51 | 176 |
| 4x2x0.5 | 13,4 | 51 | 176 |
| 4x3x0.5 | 14,8 | 70 | 228 |
| 4x3x0.5 | 14,8 | 70 | 228 |
| 4x4x0.5 | 17,4 | 89 | 288 |
| 4x4x0.5 | 17,4 | 89 | 288 |
| 2x2x0.75 | 12,9 | 38 | 142 |
| 2x2x0.75 | 12,9 | 38 | 142 |
| 2x3x0.75 | 14,4 | 53 | 183 |
| 2x3x0.75 | 14,4 | 53 | 183 |
| 2x4x0.75 | 16,7 | 67 | 228 |
| 2x4x0.75 | 16,7 | 67 | 228 |
| 3x2x0.75 | 13,8 | 58 | 184 |
| 3x2x0.75 | 13,8 | 58 | 184 |
| 3x3x0.75 | 15,3 | 79 | 239 |
| 3x3x0.75 | 15,3 | 79 | 239 |
| 3x4x0.75 | 18,0 | 101 | 302 |
| 3x4x0.75 | 18,0 | 101 | 302 |
| 4x2x0.75 | 15,2 | 77 | 230 |
| 4x2x0.75 | 15,2 | 77 | 230 |
| 4x3x0.75 | 17,0 | 106 | 302 |
| 4x3x0.75 | 17,0 | 106 | 302 |
| 2x2x1 | 13,5 | 53 | 165 |
| 2x2x1 | 13,5 | 53 | 165 |
| 2x3x1 | 15,1 | 73 | 212 |
| 2x3x1 | 15,1 | 73 | 212 |
| 2x4x1 | 17,6 | 92 | 266 |
| 2x4x1 | 17,6 | 92 | 266 |
| 3x2x1 | 14,4 | 80 | 217 |
| 3x2x1 | 14,4 | 80 | 217 |
| 3x3x1 | 16,1 | 109 | 282 |
| 3x3x1 | 16,1 | 109 | 282 |
| 3x4x1 | 18,8 | 139 | 355 |
| 3x4x1 | 18,8 | 139 | 355 |
| 4x2x1 | 15,9 | 107 | 273 |
| 4x2x1 | 15,9 | 107 | 273 |

| | | | |
|---------|------|-----|-----|
| 4x3x1 | 17.9 | 146 | 358 |
| 4x3x1 | 17,9 | 146 | 358 |
| 2x2x1.5 | 15.3 | 71 | 206 |
| 2x2x1.5 | 15,3 | 71 | 206 |
| 2x3x1.5 | 17.1 | 100 | 269 |
| 2x3x1.5 | 17,1 | 100 | 269 |
| 2x4x1.5 | 19.9 | 128 | 341 |
| 2x4x1.5 | 19,9 | 128 | 341 |
| 3x2x1.5 | 16.4 | 107 | 272 |
| 3x2x1.5 | 16,4 | 107 | 272 |
| 3x3x1.5 | 18.3 | 150 | 362 |
| 3x3x1.5 | 18,3 | 150 | 362 |
| 3x4x1.5 | 21.4 | 193 | 460 |
| 3x4x1.5 | 21,4 | 193 | 460 |
| 4x2x1.5 | 18.1 | 143 | 344 |
| 4x2x1.5 | 18,1 | 143 | 344 |
| 4x3x1.5 | 20.2 | 200 | 461 |
| 4x3x1.5 | 20,2 | 200 | 461 |
| 2x2x2.5 | 16.9 | 109 | 264 |
| 2x2x2.5 | 16,9 | 109 | 264 |
| 2x3x2.5 | 18.9 | 154 | 350 |
| 2x3x2.5 | 18,9 | 154 | 350 |
| 2x4x2.5 | 22.0 | 200 | 447 |
| 2x4x2.5 | 22,0 | 200 | 447 |
| 3x2x2.5 | 18.0 | 163 | 354 |
| 3x2x2.5 | 18,0 | 163 | 354 |
| 3x3x2.5 | 20.2 | 232 | 476 |
| 3x3x2.5 | 20,2 | 232 | 476 |
| 3x4x2.5 | 23.7 | 301 | 611 |
| 3x4x2.5 | 23,7 | 301 | 611 |
| 4x2x2.5 | 20.0 | 217 | 451 |
| 4x2x2.5 | 20,0 | 217 | 451 |
| 4x3x2.5 | 22.4 | 309 | 611 |
| 4x3x2.5 | 22,4 | 309 | 611 |

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