

M2XH FE180



Areas of Use

Used as fixed installation cable in marine vehicles. Halogen-Free and Flame Retardant construction ensure non-corrosive and highly visible environment during a fire. In addition, min. 180 minutes of circuit integrity under fire conditions is achieved by its special design.

Cable Construction

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|----------------------------|---|
| 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 | According to HD 308 S2 (# of Cores ≥ 5 => White numbered) |
| Lay-up | Cores are stranded in layers |
| Separator | PET Foil (HFFR filler upon request) |
| Outer Sheath | HFFR (IEC 60092-360 SHF1), RAL 6018 - Green |
| Reference Standards | IEC 60092-353 |

Technical Properties

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|------------------------------------|---|
| 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. Ω xkm |
| 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) ($\pm 5\%$) | Copper Weight (kg / km) | ~ Cable Weight (kg / km) |
|---|-----------------------------------|-------------------------|--------------------------|
| 1x1 | 5.3 | 10 | 41 |
| 1x1 | 5,3 | 10 | 41 |
| 2x1 | 8.7 | 20 | 90 |
| 2x1 | 8,7 | 20 | 90 |

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|--------|------|-----|------|
| 3x1 | 9.2 | 29 | 100 |
| 3x1 | 9,2 | 29 | 100 |
| 4x1 | 10.1 | 39 | 124 |
| 4x1 | 10,1 | 39 | 124 |
| 5x1 | 11.1 | 49 | 155 |
| 5x1 | 11,1 | 49 | 155 |
| 7x1 | 12.1 | 69 | 193 |
| 7x1 | 12,1 | 69 | 193 |
| 12x1 | 16.0 | 118 | 315 |
| 12x1 | 16,0 | 118 | 315 |
| 16x1 | 17.9 | 157 | 411 |
| 16x1 | 17,9 | 157 | 411 |
| 19x1 | 18.9 | 187 | 468 |
| 19x1 | 18,9 | 187 | 468 |
| 24x1 | 22.4 | 236 | 596 |
| 24x1 | 22,4 | 236 | 596 |
| 27x1 | 22.8 | 265 | 655 |
| 27x1 | 22,8 | 265 | 655 |
| 37x1 | 25.8 | 364 | 867 |
| 37x1 | 25,8 | 364 | 867 |
| 1x1.5 | 5.6 | 14 | 48 |
| 1x1.5 | 5,6 | 14 | 48 |
| 2x1.5 | 9.2 | 29 | 107 |
| 2x1.5 | 9,2 | 29 | 107 |
| 3x1.5 | 9.9 | 43 | 121 |
| 3x1.5 | 9,9 | 43 | 121 |
| 4x1.5 | 10.8 | 57 | 152 |
| 4x1.5 | 10,8 | 57 | 152 |
| 5x1.5 | 11.8 | 72 | 190 |
| 5x1.5 | 11,8 | 72 | 190 |
| 7x1.5 | 13.0 | 101 | 238 |
| 7x1.5 | 13,0 | 101 | 238 |
| 12x1.5 | 17.3 | 172 | 394 |
| 12x1.5 | 17,3 | 172 | 394 |
| 16x1.5 | 19.3 | 230 | 515 |
| 16x1.5 | 19,3 | 230 | 515 |
| 19x1.5 | 20.4 | 273 | 589 |
| 19x1.5 | 20,4 | 273 | 589 |
| 24x1.5 | 24.1 | 345 | 750 |
| 24x1.5 | 24,1 | 345 | 750 |
| 27x1.5 | 24.7 | 388 | 825 |
| 27x1.5 | 24,7 | 388 | 825 |
| 37x1.5 | 27.8 | 532 | 1099 |
| 37x1.5 | 27,8 | 532 | 1099 |
| 1x2.5 | 6.0 | 23 | 61 |
| 1x2.5 | 6,0 | 23 | 61 |

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|--------|------|-----|------|
| 2x2.5 | 10.2 | 46 | 138 |
| 2x2.5 | 10,2 | 46 | 138 |
| 3x2.5 | 10.8 | 69 | 160 |
| 3x2.5 | 10,8 | 69 | 160 |
| 4x2.5 | 11.9 | 93 | 201 |
| 4x2.5 | 11,9 | 93 | 201 |
| 5x2.5 | 13.1 | 116 | 253 |
| 5x2.5 | 13,1 | 116 | 253 |
| 7x2.5 | 14.3 | 162 | 323 |
| 7x2.5 | 14,3 | 162 | 323 |
| 12x2.5 | 19.2 | 278 | 537 |
| 12x2.5 | 19,2 | 278 | 537 |
| 16x2.5 | 21.4 | 370 | 704 |
| 16x2.5 | 21,4 | 370 | 704 |
| 19x2.5 | 22.6 | 440 | 811 |
| 19x2.5 | 22,6 | 440 | 811 |
| 24x2.5 | 26.8 | 556 | 1032 |
| 24x2.5 | 26,8 | 556 | 1032 |
| 27x2.5 | 27.5 | 625 | 1140 |
| 27x2.5 | 27,5 | 625 | 1140 |
| 37x2.5 | 31.0 | 857 | 1524 |
| 37x2.5 | 31,0 | 857 | 1524 |
| 1x4 | 6.5 | 37 | 79 |
| 1x4 | 6,5 | 37 | 79 |
| 2x4 | 11.3 | 73 | 181 |
| 2x4 | 11,3 | 73 | 181 |
| 3x4 | 12.0 | 110 | 215 |
| 3x4 | 12,0 | 110 | 215 |
| 4x4 | 13.2 | 146 | 274 |
| 4x4 | 13,2 | 146 | 274 |
| 1x6 | 7.2 | 55 | 102 |
| 1x6 | 7,2 | 55 | 102 |
| 2x6 | 12.5 | 111 | 238 |
| 2x6 | 12,5 | 111 | 238 |
| 3x6 | 13.3 | 166 | 288 |
| 3x6 | 13,3 | 166 | 288 |
| 4x6 | 14.7 | 221 | 370 |
| 4x6 | 14,7 | 221 | 370 |
| 1x10 | 7.9 | 93 | 149 |
| 1x10 | 7,9 | 93 | 149 |
| 2x10 | 14.1 | 187 | 342 |
| 2x10 | 14,1 | 187 | 342 |
| 3x10 | 15.0 | 280 | 425 |
| 3x10 | 15,0 | 280 | 425 |
| 4x10 | 16.7 | 374 | 551 |
| 4x10 | 16,7 | 374 | 551 |

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|------|------|------|------|
| 1x16 | 8.9 | 147 | 212 |
| 1x16 | 8,9 | 147 | 212 |
| 2x16 | 18.1 | 294 | 674 |
| 2x16 | 18,1 | 294 | 674 |
| 3x16 | 19.3 | 441 | 833 |
| 3x16 | 19,3 | 441 | 833 |
| 4x16 | 21.1 | 588 | 1043 |
| 4x16 | 21,1 | 588 | 1043 |
| 1x25 | 10.7 | 233 | 322 |
| 1x25 | 10,7 | 233 | 322 |
| 2x25 | 21.7 | 466 | 1002 |
| 2x25 | 21,7 | 466 | 1002 |
| 3x25 | 23.1 | 699 | 1249 |
| 3x25 | 23,1 | 699 | 1249 |
| 4x25 | 25.5 | 932 | 1574 |
| 4x25 | 25,5 | 932 | 1574 |
| 1x35 | 11.8 | 321 | 423 |
| 1x35 | 11,8 | 321 | 423 |
| 2x35 | 23.9 | 643 | 1278 |
| 2x35 | 23,9 | 643 | 1278 |
| 3x35 | 25.5 | 964 | 1613 |
| 3x35 | 25,5 | 964 | 1613 |
| 4x35 | 28.1 | 1285 | 2041 |
| 4x35 | 28,1 | 1285 | 2041 |
| 1x50 | 13.2 | 427 | 549 |
| 1x50 | 13,2 | 427 | 549 |
| 2x50 | 26.7 | 855 | 1637 |
| 2x50 | 26,7 | 855 | 1637 |
| 3x50 | 28.5 | 1282 | 2076 |
| 3x50 | 28,5 | 1282 | 2076 |
| 4x50 | 32.0 | 1709 | 2678 |
| 4x50 | 32,0 | 1709 | 2678 |
| 1x70 | 16.2 | 636 | 800 |
| 1x70 | 16,2 | 636 | 800 |
| 2x70 | 33.1 | 1273 | 2444 |
| 2x70 | 33,1 | 1273 | 2444 |
| 3x70 | 35.4 | 1909 | 3088 |
| 3x70 | 35,4 | 1909 | 3088 |
| 4x70 | 39.1 | 2545 | 3922 |
| 4x70 | 39,1 | 2545 | 3922 |
| 1x95 | 17.1 | 849 | 1028 |
| 1x95 | 17,1 | 849 | 1028 |
| 2x95 | 34.9 | 1699 | 2993 |
| 2x95 | 34,9 | 1699 | 2993 |
| 3x95 | 37.4 | 2548 | 3846 |
| 3x95 | 37,4 | 2548 | 3846 |

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|-------|------|------|------|
| 4x95 | 41.4 | 3398 | 4912 |
| 4x95 | 41,4 | 3398 | 4912 |
| 1x120 | 19.2 | 1219 | 1434 |
| 1x120 | 19,2 | 1219 | 1434 |
| 3x120 | 41.8 | 3657 | 5251 |
| 3x120 | 41,8 | 3657 | 5251 |
| 4x120 | 46.8 | 4876 | 6797 |
| 4x120 | 46,8 | 4876 | 6797 |
| 1x150 | 21.0 | 1382 | 1634 |
| 1x150 | 21,0 | 1382 | 1634 |
| 3x150 | 46.3 | 4145 | 6096 |
| 3x150 | 46,3 | 4145 | 6096 |
| 4x150 | 51.2 | 5527 | 7804 |
| 4x150 | 51,2 | 5527 | 7804 |
| 1x185 | 23.5 | 1651 | 1958 |
| 1x185 | 23,5 | 1651 | 1958 |
| 3x185 | 51.6 | 4952 | 7346 |
| 3x185 | 51,6 | 4952 | 7346 |
| 1x240 | 27.9 | 2165 | 2564 |
| 1x240 | 27,9 | 2165 | 2564 |
| 3x240 | 61.6 | 6495 | 9816 |
| 3x240 | 61,6 | 6495 | 9816 |
| 1x300 | 29.0 | 3045 | 3474 |
| 1x300 | 29,0 | 3045 | 3474 |

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