

M2XASH FE180



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. Also, 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 \geq 5 => White numbered) |
| Lay-up | Cores are stranded in layers |
| Inner Sheath | PET Foil |
| Overall Screen | Al-PET Foil (with Tinned Copper Drain Wire) |
| Separator | HFFR |
| Armour | Galvanised Steel Wire Braid |
| 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) |
|--|---------------------------------|-------------------------|--------------------------|
|--|---------------------------------|-------------------------|--------------------------|

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|--------|------|-----|------|
| 1x1 | 6.7 | 17 | 87 |
| 1x1 | 6,7 | 17 | 87 |
| 2x1 | 10.2 | 27 | 153 |
| 2x1 | 10,2 | 27 | 153 |
| 3x1 | 10.7 | 37 | 179 |
| 3x1 | 10,7 | 37 | 179 |
| 4x1 | 11.6 | 47 | 208 |
| 4x1 | 11,6 | 47 | 208 |
| 5x1 | 12.6 | 56 | 240 |
| 5x1 | 12,6 | 56 | 240 |
| 7x1 | 13.6 | 76 | 292 |
| 7x1 | 13,6 | 76 | 292 |
| 12x1 | 17.5 | 125 | 443 |
| 12x1 | 17,5 | 125 | 443 |
| 16x1 | 19.4 | 164 | 549 |
| 16x1 | 19,4 | 164 | 549 |
| 19x1 | 20.4 | 194 | 619 |
| 19x1 | 20,4 | 194 | 619 |
| 24x1 | 23.9 | 243 | 773 |
| 24x1 | 23,9 | 243 | 773 |
| 27x1 | 24.3 | 273 | 835 |
| 27x1 | 24,3 | 273 | 835 |
| 37x1 | 27.2 | 371 | 1072 |
| 37x1 | 27,2 | 371 | 1072 |
| 1x1.5 | 7.0 | 22 | 95 |
| 1x1.5 | 7,0 | 22 | 95 |
| 2x1.5 | 10.7 | 36 | 172 |
| 2x1.5 | 10,7 | 36 | 172 |
| 3x1.5 | 11.4 | 50 | 204 |
| 3x1.5 | 11,4 | 50 | 204 |
| 4x1.5 | 12.3 | 65 | 242 |
| 4x1.5 | 12,3 | 65 | 242 |
| 5x1.5 | 13.3 | 79 | 280 |
| 5x1.5 | 13,3 | 79 | 280 |
| 7x1.5 | 14.5 | 108 | 344 |
| 7x1.5 | 14,5 | 108 | 344 |
| 12x1.5 | 18.8 | 180 | 536 |
| 12x1.5 | 18,8 | 180 | 536 |
| 16x1.5 | 20.8 | 237 | 659 |
| 16x1.5 | 20,8 | 237 | 659 |
| 19x1.5 | 21.8 | 280 | 752 |
| 19x1.5 | 21,8 | 280 | 752 |
| 24x1.5 | 25.6 | 352 | 940 |
| 24x1.5 | 25,6 | 352 | 940 |
| 27x1.5 | 26.2 | 395 | 1020 |
| 27x1.5 | 26,2 | 395 | 1020 |

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|--------|------|-----|------|
| 37x1.5 | 29.3 | 539 | 1322 |
| 37x1.5 | 29,3 | 539 | 1322 |
| 1x2.5 | 7.5 | 32 | 115 |
| 1x2.5 | 7,5 | 32 | 115 |
| 2x2.5 | 11.7 | 55 | 207 |
| 2x2.5 | 11,7 | 55 | 207 |
| 3x2.5 | 12.3 | 78 | 251 |
| 3x2.5 | 12,3 | 78 | 251 |
| 4x2.5 | 13.4 | 101 | 302 |
| 4x2.5 | 13,4 | 101 | 302 |
| 5x2.5 | 14.6 | 124 | 351 |
| 5x2.5 | 14,6 | 124 | 351 |
| 7x2.5 | 15.8 | 171 | 440 |
| 7x2.5 | 15,8 | 171 | 440 |
| 12x2.5 | 20.7 | 286 | 690 |
| 12x2.5 | 20,7 | 286 | 690 |
| 16x2.5 | 22.9 | 379 | 865 |
| 16x2.5 | 22,9 | 379 | 865 |
| 19x2.5 | 24.1 | 448 | 989 |
| 19x2.5 | 24,1 | 448 | 989 |
| 24x2.5 | 28.3 | 564 | 1244 |
| 24x2.5 | 28,3 | 564 | 1244 |
| 27x2.5 | 29.0 | 634 | 1361 |
| 27x2.5 | 29,0 | 634 | 1361 |
| 37x2.5 | 32.5 | 865 | 1775 |
| 37x2.5 | 32,5 | 865 | 1775 |
| 1x4 | 8.0 | 45 | 137 |
| 1x4 | 8,0 | 45 | 137 |
| 2x4 | 12.8 | 82 | 255 |
| 2x4 | 12,8 | 82 | 255 |
| 3x4 | 13.5 | 118 | 314 |
| 3x4 | 13,5 | 118 | 314 |
| 4x4 | 14.7 | 155 | 382 |
| 4x4 | 14,7 | 155 | 382 |
| 1x6 | 8.7 | 64 | 165 |
| 1x6 | 8,7 | 64 | 165 |
| 2x6 | 14.0 | 119 | 315 |
| 2x6 | 14,0 | 119 | 315 |
| 3x6 | 14.8 | 174 | 397 |
| 3x6 | 14,8 | 174 | 397 |
| 4x6 | 16.2 | 230 | 492 |
| 4x6 | 16,2 | 230 | 492 |
| 1x10 | 9.4 | 102 | 216 |
| 1x10 | 9,4 | 102 | 216 |
| 2x10 | 15.6 | 195 | 424 |
| 2x10 | 15,6 | 195 | 424 |

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|------|------|------|------|
| 3x10 | 16.6 | 289 | 550 |
| 3x10 | 16,6 | 289 | 550 |
| 4x10 | 18.2 | 382 | 688 |
| 4x10 | 18,2 | 382 | 688 |
| 1x16 | 10.4 | 155 | 289 |
| 1x16 | 10,4 | 155 | 289 |
| 2x16 | 19.5 | 302 | 766 |
| 2x16 | 19,5 | 302 | 766 |
| 3x16 | 20.7 | 449 | 982 |
| 3x16 | 20,7 | 449 | 982 |
| 4x16 | 22.5 | 596 | 1205 |
| 4x16 | 22,5 | 596 | 1205 |
| 1x25 | 12.2 | 242 | 412 |
| 1x25 | 12,2 | 242 | 412 |
| 2x25 | 23.1 | 475 | 1098 |
| 2x25 | 23,1 | 475 | 1098 |
| 3x25 | 24.5 | 708 | 1429 |
| 3x25 | 24,5 | 708 | 1429 |
| 4x25 | 26.9 | 941 | 1769 |
| 4x25 | 26,9 | 941 | 1769 |
| 1x35 | 13.3 | 330 | 521 |
| 1x35 | 13,3 | 330 | 521 |
| 2x35 | 25.3 | 651 | 1367 |
| 2x35 | 25,3 | 651 | 1367 |
| 3x35 | 26.9 | 972 | 1811 |
| 3x35 | 26,9 | 972 | 1811 |
| 4x35 | 29.5 | 1294 | 2255 |
| 4x35 | 29,5 | 1294 | 2255 |
| 1x50 | 14.7 | 436 | 658 |
| 1x50 | 14,7 | 436 | 658 |
| 2x50 | 28.1 | 863 | 1724 |
| 2x50 | 28,1 | 863 | 1724 |
| 3x50 | 29.9 | 1290 | 2294 |
| 3x50 | 29,9 | 1290 | 2294 |
| 4x50 | 33.4 | 1718 | 2925 |
| 4x50 | 33,4 | 1718 | 2925 |
| 1x70 | 17.7 | 645 | 933 |
| 1x70 | 17,7 | 645 | 933 |
| 2x70 | 34.5 | 1281 | 2505 |
| 2x70 | 34,5 | 1281 | 2505 |
| 3x70 | 37.2 | 1917 | 3451 |
| 3x70 | 37,2 | 1917 | 3451 |
| 4x70 | 41.0 | 2554 | 4318 |
| 4x70 | 41,0 | 2554 | 4318 |
| 1x95 | 18.6 | 858 | 1166 |
| 1x95 | 18,6 | 858 | 1166 |

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|-------|------|------|-------|
| 2x95 | 36.7 | 1707 | 3125 |
| 2x95 | 36,7 | 1707 | 3125 |
| 3x95 | 39.2 | 2557 | 4215 |
| 3x95 | 39,2 | 2557 | 4215 |
| 4x95 | 43.2 | 3406 | 5329 |
| 4x95 | 43,2 | 3406 | 5329 |
| 1x120 | 20.7 | 1227 | 1590 |
| 1x120 | 20,7 | 1227 | 1590 |
| 3x120 | 43.7 | 3666 | 5678 |
| 3x120 | 43,7 | 3666 | 5678 |
| 4x120 | 48.6 | 4885 | 7273 |
| 4x120 | 48,6 | 4885 | 7273 |
| 1x150 | 22.5 | 1390 | 1807 |
| 1x150 | 22,5 | 1390 | 1807 |
| 3x150 | 48.1 | 4154 | 6567 |
| 3x150 | 48,1 | 4154 | 6567 |
| 4x150 | 53.1 | 5536 | 8318 |
| 4x150 | 53,1 | 5536 | 8318 |
| 1x185 | 25.0 | 1659 | 2149 |
| 1x185 | 25,0 | 1659 | 2149 |
| 3x185 | 53.4 | 4960 | 7866 |
| 3x185 | 53,4 | 4960 | 7866 |
| 1x240 | 29.4 | 2174 | 2790 |
| 1x240 | 29,4 | 2174 | 2790 |
| 3x240 | 63.4 | 6504 | 10431 |
| 3x240 | 63,4 | 6504 | 10431 |
| 1x300 | 30.5 | 3053 | 3700 |
| 1x300 | 30,5 | 3053 | 3700 |

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