

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

Cable Construction

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|---------------------|--|
| Flame Barrier | Mica Tape |
| Insulation | HEPR (IEC 60092-360) |
| Core Colors | According to HD 308 S2 (# of Cores ≥ 5 => White numbered) |
| Separator | PET Foil (HFFR filler upon request) |
| Outer Sheath | HFFR (IEC 60092-360 SHF1), RAL 6018 - Green |
| Reference Standards | IEC 60092-353 |
| Conductor | Stranded Annealed Tinned Copper (IEC 60228, Class 2) |

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) | 6 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 | 5.0 | 10 | 35 |
| 1x1 | 5,0 | 10 | 35 |
| 2x1 | 10.1 | 20 | 144 |
| 2x1 | 10,1 | 20 | 144 |
| 3x1 | 10.6 | 29 | 160 |
| 3x1 | 10,6 | 29 | 160 |

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|------|------|-----|-----|
| 4x1 | 11.4 | 38 | 187 |
| 4x1 | 11,4 | 38 | 187 |
| 5x1 | 12.5 | 47 | 215 |
| 5x1 | 12,5 | 47 | 215 |
| 6x1 | 13.3 | 57 | 244 |
| 6x1 | 13,3 | 57 | 244 |
| 7x1 | 13.3 | 66 | 253 |
| 7x1 | 13,3 | 66 | 253 |
| 8x1 | 13.3 | 75 | 236 |
| 8x1 | 13,3 | 75 | 236 |
| 9x1 | 14.2 | 85 | 267 |
| 9x1 | 14,2 | 85 | 267 |
| 10x1 | 14.6 | 94 | 261 |
| 10x1 | 14,6 | 94 | 261 |
| 12x1 | 15.0 | 112 | 294 |
| 12x1 | 15,0 | 112 | 294 |
| 14x1 | 16.0 | 131 | 339 |
| 14x1 | 16,0 | 131 | 339 |
| 16x1 | 16.8 | 149 | 379 |
| 16x1 | 16,8 | 149 | 379 |
| 18x1 | 17.7 | 168 | 419 |
| 18x1 | 17,7 | 168 | 419 |
| 19x1 | 17.7 | 178 | 427 |
| 19x1 | 17,7 | 178 | 427 |
| 20x1 | 17.7 | 187 | 453 |
| 20x1 | 17,7 | 187 | 453 |
| 21x1 | 28.9 | 196 | 510 |
| 21x1 | 28,9 | 196 | 510 |
| 24x1 | 20.9 | 225 | 543 |
| 24x1 | 20,9 | 225 | 543 |
| 25x1 | 20.9 | 233 | 559 |
| 25x1 | 20,9 | 233 | 559 |
| 27x1 | 21.6 | 252 | 601 |
| 27x1 | 21,6 | 252 | 601 |
| 30x1 | 22.4 | 280 | 655 |
| 30x1 | 22,4 | 280 | 655 |
| 32x1 | 23.2 | 299 | 699 |
| 32x1 | 23,2 | 299 | 699 |
| 36x1 | 24.3 | 336 | 780 |
| 36x1 | 24,3 | 336 | 780 |
| 37x1 | 24.3 | 346 | 787 |
| 37x1 | 24,3 | 346 | 787 |
| 40x1 | 25.2 | 373 | 864 |
| 40x1 | 25,2 | 373 | 864 |
| 42x1 | 26.3 | 392 | 909 |
| 42x1 | 26,3 | 392 | 909 |

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| 48x1 | 27.9 | 448 | 1015 |
| 48x1 | 27,9 | 448 | 1015 |
| 60x1 | 30.8 | 559 | 1230 |
| 60x1 | 30,8 | 559 | 1230 |
| 1x1.5 | 5.2 | 14 | 42 |
| 1x1.5 | 5,2 | 14 | 42 |
| 2x1.5 | 10.7 | 29 | 166 |
| 2x1.5 | 10,7 | 29 | 166 |
| 3x1.5 | 11.2 | 43 | 186 |
| 3x1.5 | 11,2 | 43 | 186 |
| 4x1.5 | 12.3 | 57 | 226 |
| 4x1.5 | 12,3 | 57 | 226 |
| 5x1.5 | 13.3 | 70 | 255 |
| 5x1.5 | 13,3 | 70 | 255 |
| 6x1.5 | 14.2 | 85 | 292 |
| 6x1.5 | 14,2 | 85 | 292 |
| 7x1.5 | 14.2 | 98 | 305 |
| 7x1.5 | 14,2 | 98 | 305 |
| 8x1.5 | 14.6 | 113 | 301 |
| 8x1.5 | 14,6 | 113 | 301 |
| 9x1.5 | 15.5 | 127 | 341 |
| 9x1.5 | 15,5 | 127 | 341 |
| 10x1.5 | 15.9 | 140 | 336 |
| 10x1.5 | 15,9 | 140 | 336 |
| 12x1.5 | 16.5 | 168 | 381 |
| 12x1.5 | 16,5 | 168 | 381 |
| 14x1.5 | 17.3 | 196 | 428 |
| 14x1.5 | 17,3 | 196 | 428 |
| 16x1.5 | 18.5 | 224 | 490 |
| 16x1.5 | 18,5 | 224 | 490 |
| 18x1.5 | 19.4 | 253 | 542 |
| 18x1.5 | 19,4 | 253 | 542 |
| 19x1.5 | 19.4 | 266 | 554 |
| 19x1.5 | 19,4 | 266 | 554 |
| 20x1.5 | 19.4 | 280 | 588 |
| 20x1.5 | 19,4 | 280 | 588 |
| 21x1.5 | 20.5 | 294 | 648 |
| 21x1.5 | 20,5 | 294 | 648 |
| 24x1.5 | 22.9 | 336 | 705 |
| 24x1.5 | 22,9 | 336 | 705 |
| 25x1.5 | 22.9 | 350 | 726 |
| 25x1.5 | 22,9 | 350 | 726 |
| 27x1.5 | 23.6 | 378 | 779 |
| 27x1.5 | 23,6 | 378 | 779 |
| 30x1.5 | 24.5 | 419 | 852 |
| 30x1.5 | 24,5 | 419 | 852 |

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| 32x1.5 | 25.4 | 448 | 910 |
| 32x1.5 | 25,4 | 448 | 910 |
| 36x1.5 | 26.5 | 504 | 1014 |
| 36x1.5 | 26,5 | 504 | 1014 |
| 37x1.5 | 26.5 | 517 | 1026 |
| 37x1.5 | 26,5 | 517 | 1026 |
| 40x1.5 | 27.6 | 559 | 1125 |
| 40x1.5 | 27,6 | 559 | 1125 |
| 42x1.5 | 28.8 | 587 | 1182 |
| 42x1.5 | 28,8 | 587 | 1182 |
| 48x1.5 | 30.5 | 672 | 1321 |
| 48x1.5 | 30,5 | 672 | 1321 |
| 60x1.5 | 33.9 | 839 | 1622 |
| 60x1.5 | 33,9 | 839 | 1622 |
| 1x2.5 | 5.7 | 24 | 53 |
| 1x2.5 | 5,7 | 24 | 53 |
| 2x2.5 | 11.7 | 49 | 206 |
| 2x2.5 | 11,7 | 49 | 206 |
| 3x2.5 | 12.5 | 70 | 242 |
| 3x2.5 | 12,5 | 70 | 242 |
| 4x2.5 | 13.5 | 94 | 287 |
| 4x2.5 | 13,5 | 94 | 287 |
| 5x2.5 | 14.7 | 117 | 328 |
| 5x2.5 | 14,7 | 117 | 328 |
| 6x2.5 | 15.6 | 140 | 379 |
| 6x2.5 | 15,6 | 140 | 379 |
| 7x2.5 | 15.6 | 163 | 397 |
| 7x2.5 | 15,6 | 163 | 397 |
| 8x2.5 | 16.4 | 187 | 412 |
| 8x2.5 | 16,4 | 187 | 412 |
| 9x2.5 | 17.6 | 210 | 469 |
| 9x2.5 | 17,6 | 210 | 469 |
| 10x2.5 | 18.1 | 233 | 465 |
| 10x2.5 | 18,1 | 233 | 465 |
| 12x2.5 | 18.8 | 280 | 531 |
| 12x2.5 | 18,8 | 280 | 531 |
| 14x2.5 | 19.9 | 326 | 608 |
| 14x2.5 | 19,9 | 326 | 608 |
| 16x2.5 | 21.0 | 373 | 684 |
| 16x2.5 | 21,0 | 373 | 684 |
| 18x2.5 | 22.1 | 419 | 760 |
| 18x2.5 | 22,1 | 419 | 760 |
| 19x2.5 | 22.1 | 443 | 734 |
| 19x2.5 | 22,1 | 443 | 734 |
| 20x2.5 | 22.1 | 466 | 827 |
| 20x2.5 | 22,1 | 466 | 827 |

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|--------|------|------|------|
| 21x2.5 | 23.4 | 489 | 910 |
| 21x2.5 | 23,4 | 489 | 910 |
| 24x2.5 | 26.0 | 559 | 989 |
| 24x2.5 | 26,0 | 559 | 989 |
| 25x2.5 | 26.0 | 582 | 1019 |
| 25x2.5 | 26,0 | 582 | 1019 |
| 27x2.5 | 26.6 | 629 | 1080 |
| 27x2.5 | 26,6 | 629 | 1080 |
| 30x2.5 | 27.8 | 699 | 1198 |
| 30x2.5 | 27,8 | 699 | 1198 |
| 32x2.5 | 28.9 | 745 | 1280 |
| 32x2.5 | 28,9 | 745 | 1280 |
| 36x2.5 | 30.2 | 839 | 1427 |
| 36x2.5 | 30,2 | 839 | 1427 |
| 37x2.5 | 30.2 | 862 | 1446 |
| 37x2.5 | 30,2 | 862 | 1446 |
| 40x2.5 | 31.5 | 932 | 1586 |
| 40x2.5 | 31,5 | 932 | 1586 |
| 42x2.5 | 32.8 | 978 | 1666 |
| 42x2.5 | 32,8 | 978 | 1666 |
| 48x2.5 | 34.9 | 1118 | 1883 |
| 48x2.5 | 34,9 | 1118 | 1883 |
| 1x4 | 6.2 | 38 | 71 |
| 1x4 | 6,2 | 38 | 71 |
| 2x4 | 12.9 | 75 | 265 |
| 2x4 | 12,9 | 75 | 265 |
| 3x4 | 13.6 | 113 | 309 |
| 3x4 | 13,6 | 113 | 309 |
| 4x4 | 14.8 | 150 | 375 |
| 4x4 | 14,8 | 150 | 375 |
| 5x4 | 16.1 | 187 | 436 |
| 5x4 | 16,1 | 187 | 436 |
| 1x6 | 6.8 | 56 | 93 |
| 1x6 | 6,8 | 56 | 93 |
| 2x6 | 14.1 | 113 | 332 |
| 2x6 | 14,1 | 113 | 332 |
| 3x6 | 14.9 | 168 | 394 |
| 3x6 | 14,9 | 168 | 394 |
| 4x6 | 26.3 | 225 | 488 |
| 4x6 | 26,3 | 225 | 488 |
| 5x6 | 18.0 | 280 | 575 |
| 5x6 | 18,0 | 280 | 575 |
| 1x10 | 7.7 | 94 | 134 |
| 1x10 | 7,7 | 94 | 134 |
| 2x10 | 16.0 | 187 | 462 |
| 2x10 | 16,0 | 187 | 462 |

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|------|------|------|------|
| 3x10 | 16.9 | 280 | 557 |
| 3x10 | 16,9 | 280 | 557 |
| 4x10 | 18.7 | 373 | 699 |
| 4x10 | 18,7 | 373 | 699 |
| 5x10 | 20.6 | 466 | 824 |
| 5x10 | 20,6 | 466 | 824 |
| 1x16 | 8.7 | 149 | 191 |
| 1x16 | 8,7 | 149 | 191 |
| 2x16 | 16.2 | 299 | 637 |
| 2x16 | 16,2 | 299 | 637 |
| 3x16 | 19.3 | 448 | 783 |
| 3x16 | 19,3 | 448 | 783 |
| 4x16 | 21.3 | 597 | 978 |
| 4x16 | 21,3 | 597 | 978 |
| 5x16 | 23.5 | 746 | 1167 |
| 5x16 | 23,5 | 746 | 1167 |
| 1x25 | 10.6 | 233 | 292 |
| 1x25 | 10,6 | 233 | 292 |
| 2x25 | 21.8 | 466 | 940 |
| 2x25 | 21,8 | 466 | 940 |
| 3x25 | 23.1 | 699 | 1163 |
| 3x25 | 23,1 | 699 | 1163 |
| 4x25 | 25.5 | 932 | 1464 |
| 4x25 | 25,5 | 932 | 1464 |
| 5x25 | 28.3 | 1165 | 1754 |
| 5x25 | 28,3 | 1165 | 1754 |
| 1x35 | 11.6 | 326 | 380 |
| 1x35 | 11,6 | 326 | 380 |
| 3x35 | 25.4 | 978 | 1499 |
| 3x35 | 25,4 | 978 | 1499 |
| 4x35 | 28.1 | 1304 | 1888 |
| 4x35 | 28,1 | 1304 | 1888 |
| 1x50 | 13.5 | 466 | 517 |
| 1x50 | 13,5 | 466 | 517 |
| 3x50 | 29.2 | 1397 | 2008 |
| 3x50 | 29,2 | 1397 | 2008 |
| 4x50 | 32.5 | 1863 | 2548 |
| 4x50 | 32,5 | 1863 | 2548 |
| 1x70 | 15.5 | 652 | 725 |
| 1x70 | 15,5 | 652 | 725 |
| 3x70 | 34.1 | 1956 | 2815 |
| 3x70 | 34,1 | 1956 | 2815 |
| 4x70 | 37.8 | 2608 | 3574 |
| 4x70 | 37,8 | 2608 | 3574 |
| 1x95 | 17.3 | 885 | 962 |
| 1x95 | 17,3 | 885 | 962 |

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|-------|------|------|-------|
| 3x95 | 38.1 | 2654 | 3699 |
| 3x95 | 38,1 | 2654 | 3699 |
| 4x95 | 42.5 | 3539 | 4720 |
| 4x95 | 42,5 | 3539 | 4720 |
| 1x120 | 19.2 | 1118 | 1210 |
| 1x120 | 19,2 | 1118 | 1210 |
| 3x120 | 42.6 | 3353 | 4703 |
| 3x120 | 42,6 | 3353 | 4703 |
| 4x120 | 47.3 | 4470 | 5937 |
| 4x120 | 47,3 | 4470 | 5937 |
| 1x150 | 21.4 | 1397 | 1493 |
| 1x150 | 21,4 | 1397 | 1493 |
| 3x150 | 47.1 | 4191 | 5722 |
| 3x150 | 47,1 | 4191 | 5722 |
| 4x150 | 52.2 | 5588 | 7262 |
| 4x150 | 52,2 | 5588 | 7262 |
| 1x185 | 23.6 | 1723 | 1845 |
| 1x185 | 23,6 | 1723 | 1845 |
| 3x185 | 52.3 | 5169 | 7093 |
| 3x185 | 52,3 | 5169 | 7093 |
| 4x185 | 58.2 | 6891 | 9061 |
| 4x185 | 58,2 | 6891 | 9061 |
| 1x240 | 26.5 | 2335 | 2413 |
| 1x240 | 26,5 | 2335 | 2413 |
| 3x240 | 59.0 | 6705 | 9243 |
| 3x240 | 59,0 | 6705 | 9243 |
| 4x240 | 64.9 | 8940 | 11684 |
| 4x240 | 64,9 | 8940 | 11684 |

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