

## 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

|                     |  |
|---------------------|--|
| Flame Barrier       | Mica Tape  |
| Insulation          | HEPR (IEC 60092-360)   |
| Core Colors         | According to HD 308 S2 (# of Cores $\geq 5$ => 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

|                             |   |
|-----------------------------|---|
| 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. $\Omega$ 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 <sup>2</sup> ) | 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                      |

|      |      |     |     |
|------|------|-----|-----|
| 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 |

|        |      |     |      |
|--------|------|-----|------|
| 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  |

|        |      |     |      |
|--------|------|-----|------|
| 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  |

|        |      |      |      |
|--------|------|------|------|
| 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  |

|      |      |      |      |
|------|------|------|------|
| 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  |

|       |      |      |       |
|-------|------|------|-------|
| 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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