

## M2XAH



### 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.

### Cable Construction

|                                 |                                                                                                                     |
|---------------------------------|---------------------------------------------------------------------------------------------------------------------|
| <b>Conductor</b>                | Stranded Annealed Copper (IEC/EN 60228, Class 2) (tinned copper and/or Class 5 versions are available upon request) |
| <b>Insulation</b>               | XLPE (IEC 60092-360)                                                                                                |
| <b>Core Colors</b>              | According to HD 308 S2 (# of Cores $\geq 5$ => White numbered)                                                      |
| <b>Lay-up</b>                   | Cores are stranded in layers                                                                                        |
| <b>Inner Sheath / Separator</b> | PET Foil (HFFR filler upon request)                                                                                 |
| <b>Overall Screen</b>           | Al-PET Foil (with Tinned Copper Drain Wire)                                                                         |
| <b>Outer Sheath</b>             | HFFR (IEC 60092-360 SHF1), RAL 9005 - Black or RAL 7001 - Grey                                                      |
| <b>Reference Standards</b>      | IEC 60092-353                                                                                                       |

### Technical Properties

|                                    |                                             |
|------------------------------------|---------------------------------------------|
| <b>Operating Voltage</b>           | 0.6/1 (1.2) kV                              |
| <b>Test Voltage</b>                | 3.5 kV (a.c.) 8.4 kV (d.c)                  |
| <b>Conductor Resistance</b>        | IEC/EN 60228                                |
| <b>Insulation Resistance</b>       | >5000 M. $\Omega$ km                        |
| <b>Temperature Range</b>           | -40 °C.....+90 °C                           |
| <b>Flame Retardancy</b>            | IEC/EN 60332-1-2, IEC/EN 60332-3-22 (CAT A) |
| <b>Smoke Density</b>               | IEC/EN 61034-1+2                            |
| <b>Amount of Halogen Acid Gas</b>  | IEC/EN 60754-1                              |
| <b>Corrosive Gases Measurement</b> | IEC/EN 60754-2                              |
| <b>Min. Bending Radius (Fixed)</b> | 8 x Cable Diameter                          |

### Cross Section

| Configuration / Cross-Section<br>(mm/mm <sup>2</sup> ) | Cable Diameter (mm) ( $\pm$ 5%) | Copper Weight (kg / km) | ~ Cable Weight (kg / km) |
|--------------------------------------------------------|---------------------------------|-------------------------|--------------------------|
| 1x1                                                    | 5.1                             | 17                      | 46                       |
| 1x1                                                    | 5,1                             | 17                      | 46                       |
| 2x1                                                    | 7.9                             | 27                      | 86                       |
| 2x1                                                    | 7,9                             | 27                      | 86                       |
| 3x1                                                    | 8.5                             | 37                      | 97                       |

|        |      |     |     |
|--------|------|-----|-----|
| 3x1    | 8,5  | 37  | 97  |
| 4x1    | 9.2  | 47  | 117 |
| 4x1    | 9,2  | 47  | 117 |
| 5x1    | 10.0 | 56  | 142 |
| 5x1    | 10,0 | 56  | 142 |
| 7x1    | 10.9 | 76  | 175 |
| 7x1    | 10,9 | 76  | 175 |
| 12x1   | 14.3 | 125 | 278 |
| 12x1   | 14,3 | 125 | 278 |
| 16x1   | 15.9 | 164 | 356 |
| 16x1   | 15,9 | 164 | 356 |
| 19x1   | 16.8 | 194 | 405 |
| 19x1   | 16,8 | 194 | 405 |
| 24x1   | 19.8 | 243 | 512 |
| 24x1   | 19,8 | 243 | 512 |
| 27x1   | 20.2 | 273 | 560 |
| 27x1   | 20,2 | 273 | 560 |
| 37x1   | 22.7 | 371 | 736 |
| 37x1   | 22,7 | 371 | 736 |
| 1x1.5  | 5.4  | 22  | 53  |
| 1x1.5  | 5,4  | 22  | 53  |
| 2x1.5  | 8.6  | 36  | 103 |
| 2x1.5  | 8,6  | 36  | 103 |
| 3x1.5  | 9.1  | 50  | 117 |
| 3x1.5  | 9,1  | 50  | 117 |
| 4x1.5  | 9.9  | 65  | 143 |
| 4x1.5  | 9,9  | 65  | 143 |
| 5x1.5  | 10.8 | 79  | 175 |
| 5x1.5  | 10,8 | 79  | 175 |
| 7x1.5  | 11.8 | 108 | 219 |
| 7x1.5  | 11,8 | 108 | 219 |
| 12x1.5 | 15.6 | 180 | 353 |
| 12x1.5 | 15,6 | 180 | 353 |
| 16x1.5 | 17.3 | 237 | 455 |
| 16x1.5 | 17,3 | 237 | 455 |
| 19x1.5 | 18.3 | 280 | 520 |
| 19x1.5 | 18,3 | 280 | 520 |
| 24x1.5 | 21.5 | 352 | 657 |
| 24x1.5 | 21,5 | 352 | 657 |
| 27x1.5 | 22.1 | 395 | 723 |
| 27x1.5 | 22,1 | 395 | 723 |
| 37x1.5 | 24.8 | 539 | 956 |
| 37x1.5 | 24,8 | 539 | 956 |
| 1x2.5  | 5.8  | 32  | 66  |
| 1x2.5  | 5,8  | 32  | 66  |
| 2x2.5  | 9.4  | 55  | 133 |
|        |      |     |     |

|        |      |     |      |
|--------|------|-----|------|
| 2x2.5  | 9,4  | 55  | 133  |
| 3x2.5  | 10.1 | 78  | 156  |
| 3x2.5  | 10,1 | 78  | 156  |
| 4x2.5  | 11.0 | 101 | 193  |
| 4x2.5  | 11,0 | 101 | 193  |
| 5x2.5  | 12.0 | 124 | 238  |
| 5x2.5  | 12,0 | 124 | 238  |
| 7x2.5  | 13.1 | 171 | 300  |
| 7x2.5  | 13,1 | 171 | 300  |
| 12x2.5 | 17.4 | 286 | 491  |
| 12x2.5 | 17,4 | 286 | 491  |
| 16x2.5 | 19.5 | 379 | 638  |
| 16x2.5 | 19,5 | 379 | 638  |
| 19x2.5 | 20.5 | 448 | 733  |
| 19x2.5 | 20,5 | 448 | 733  |
| 24x2.5 | 24.2 | 564 | 928  |
| 24x2.5 | 24,2 | 564 | 928  |
| 27x2.5 | 24.8 | 634 | 1023 |
| 27x2.5 | 24,8 | 634 | 1023 |
| 37x2.5 | 28.0 | 865 | 1364 |
| 37x2.5 | 28,0 | 865 | 1364 |
| 1x4    | 6.3  | 45  | 84   |
| 1x4    | 6,3  | 45  | 84   |
| 2x4    | 10.5 | 82  | 176  |
| 2x4    | 10,5 | 82  | 176  |
| 3x4    | 11.3 | 118 | 209  |
| 3x4    | 11,3 | 118 | 209  |
| 4x4    | 12.3 | 155 | 263  |
| 4x4    | 12,3 | 155 | 263  |
| 1x6    | 6.9  | 64  | 108  |
| 1x6    | 6,9  | 64  | 108  |
| 2x6    | 11.8 | 119 | 232  |
| 2x6    | 11,8 | 119 | 232  |
| 3x6    | 12.6 | 174 | 281  |
| 3x6    | 12,6 | 174 | 281  |
| 4x6    | 13.9 | 230 | 358  |
| 4x6    | 13,9 | 230 | 358  |
| 1x10   | 7.7  | 102 | 153  |
| 1x10   | 7,7  | 102 | 153  |
| 2x10   | 13.3 | 195 | 334  |
| 2x10   | 13,3 | 195 | 334  |
| 3x10   | 14.3 | 289 | 417  |
| 3x10   | 14,3 | 289 | 417  |
| 4x10   | 15.8 | 382 | 536  |
| 4x10   | 15,8 | 382 | 536  |
| 1x16   | 8.7  | 155 | 216  |
|        |      |     |      |

|      |      |      |      |
|------|------|------|------|
| 1x16 | 8,7  | 155  | 216  |
| 2x16 | 17.3 | 302  | 637  |
| 2x16 | 17,3 | 302  | 637  |
| 3x16 | 18.4 | 449  | 792  |
| 3x16 | 18,4 | 449  | 792  |
| 4x16 | 20.1 | 596  | 991  |
| 4x16 | 20,1 | 596  | 991  |
| 1x25 | 10.5 | 242  | 325  |
| 1x25 | 10,5 | 242  | 325  |
| 2x25 | 21.0 | 475  | 958  |
| 2x25 | 21,0 | 475  | 958  |
| 3x25 | 22.4 | 708  | 1200 |
| 3x25 | 22,4 | 708  | 1200 |
| 4x25 | 24.5 | 941  | 1510 |
| 4x25 | 24,5 | 941  | 1510 |
| 1x35 | 11.6 | 330  | 425  |
| 1x35 | 11,6 | 330  | 425  |
| 2x35 | 23.1 | 651  | 1228 |
| 2x35 | 23,1 | 651  | 1228 |
| 3x35 | 24.8 | 972  | 1558 |
| 3x35 | 24,8 | 972  | 1558 |
| 4x35 | 27.2 | 1294 | 1970 |
| 4x35 | 27,2 | 1294 | 1970 |
| 1x50 | 13.0 | 436  | 550  |
| 1x50 | 13,0 | 436  | 550  |
| 2x50 | 25.9 | 863  | 1579 |
| 2x50 | 25,9 | 863  | 1579 |
| 3x50 | 27.8 | 1290 | 2013 |
| 3x50 | 27,8 | 1290 | 2013 |
| 4x50 | 30.6 | 1718 | 2557 |
| 4x50 | 30,6 | 1718 | 2557 |
| 1x70 | 15.9 | 645  | 801  |
| 1x70 | 15,9 | 645  | 801  |
| 2x70 | 32.3 | 1281 | 2372 |
| 2x70 | 32,3 | 1281 | 2372 |
| 3x70 | 34.6 | 1917 | 3007 |
| 3x70 | 34,6 | 1917 | 3007 |
| 4x70 | 38.2 | 2554 | 3818 |
| 4x70 | 38,2 | 2554 | 3818 |
| 1x95 | 16.9 | 858  | 1028 |
| 1x95 | 16,9 | 858  | 1028 |
| 2x95 | 34.2 | 1707 | 2916 |
| 2x95 | 34,2 | 1707 | 2916 |
| 3x95 | 36.5 | 2557 | 3760 |
| 3x95 | 36,5 | 2557 | 3760 |
| 4x95 | 40.4 | 3406 | 4802 |
|      |      |      |      |

|       |      |      |      |
|-------|------|------|------|
| 4x95  | 40,4 | 3406 | 4802 |
| 1x120 | 18,9 | 1227 | 1431 |
| 1x120 | 18,9 | 1227 | 1431 |
| 3x120 | 41.1 | 3666 | 5149 |
| 3x120 | 41,1 | 3666 | 5149 |
| 4x120 | 45.8 | 4885 | 6666 |
| 4x120 | 45,8 | 4885 | 6666 |
| 1x150 | 20.8 | 1390 | 1632 |
| 1x150 | 20,8 | 1390 | 1632 |
| 3x150 | 45.4 | 4154 | 5984 |
| 3x150 | 45,4 | 4154 | 5984 |
| 4x150 | 50.2 | 5536 | 7665 |
| 4x150 | 50,2 | 5536 | 7665 |
| 1x185 | 23.2 | 1659 | 1954 |
| 1x185 | 23,2 | 1659 | 1954 |
| 3x185 | 50.8 | 4960 | 7222 |
| 3x185 | 50,8 | 4960 | 7222 |
| 1x240 | 27.7 | 2174 | 2560 |
| 1x240 | 27,7 | 2174 | 2560 |
| 3x240 | 60.7 | 6504 | 9668 |
| 3x240 | 60,7 | 6504 | 9668 |
| 1x300 | 28.8 | 3053 | 3469 |
| 1x300 | 28,8 | 3053 | 3469 |

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