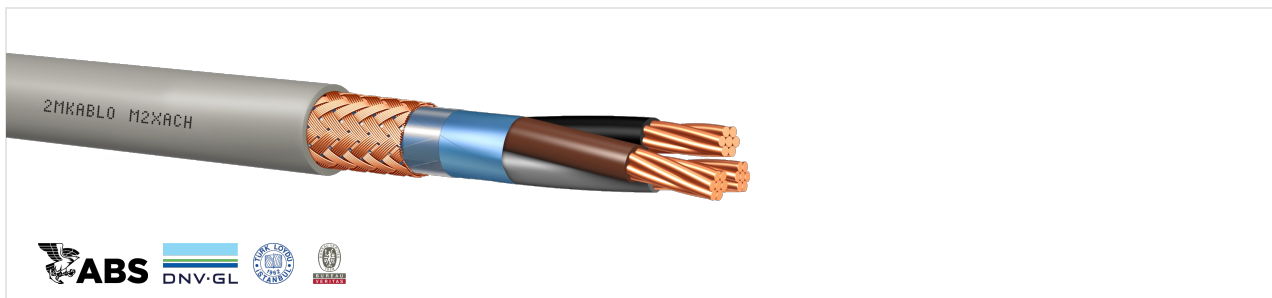


## M2XACH



### 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 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>Separator</b>           | PET Foil  |
| <b>1. Overall Screen</b>   | Al-PET Foil (with Tinned Copper Drain Wire)   |
| <b>Separator</b>           | PET Foil (HFFR filler upon request)   |
| <b>2. Overall Screen</b>   | Annealed Copper Wire Braid (90% Coverage)   |
| <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. $\Omega$ xkm                       |
| <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 (mm/mm <sup>2</sup> ) | Cable Diameter (mm) ( $\pm 5\%$ ) | Copper Weight (kg / km) | ~ Cable Weight (kg / km) |
|---|-----------------------------------|-------------------------|--------------------------|
| 1x1   | 5.7                               | 35                      | 67                       |
| 1x2x0,5   | 6,50                              | 16                      | 74                       |
| 1x1   | 5,7                               | 35                      | 67                       |

|         |       |     |     |
|---------|-------|-----|-----|
| 2x1     | 8.6   | 60  | 122 |
| 1x3x0,5 | 6,70  | 21  | 80  |
| 2x1     | 8,6   | 60  | 122 |
| 3x1     | 9.1   | 71  | 134 |
| 1x4x0,5 | 7,25  | 26  | 91  |
| 3x1     | 9,1   | 71  | 134 |
| 4x1     | 9.8   | 85  | 158 |
| 2x2x0,5 | 8,75  | 26  | 110 |
| 4x1     | 9,8   | 85  | 158 |
| 5x1     | 10.6  | 98  | 185 |
| 2x3x0,5 | 9,70  | 35  | 134 |
| 5x1     | 10,6  | 98  | 185 |
| 7x1     | 11.5  | 121 | 222 |
| 2x4x0,5 | 11,65 | 45  | 171 |
| 7x1     | 11,5  | 121 | 222 |
| 12x1    | 15.2  | 223 | 381 |
| 12x1    | 15,2  | 223 | 381 |
| 16x1    | 16.8  | 274 | 471 |
| 16x1    | 16,8  | 274 | 471 |
| 19x1    | 17.7  | 310 | 526 |
| 19x1    | 17,7  | 310 | 526 |
| 24x1    | 20.6  | 379 | 651 |
| 24x1    | 20,6  | 379 | 651 |
| 27x1    | 21.0  | 411 | 702 |
| 27x1    | 21,0  | 411 | 702 |
| 37x1    | 23.5  | 528 | 896 |
| 37x1    | 23,5  | 528 | 896 |
| 1x1.5   | 6.0   | 41  | 75  |
| 1x1.5   | 6,0   | 41  | 75  |
| 2x1.5   | 9.2   | 72  | 141 |
| 2x1.5   | 9,2   | 72  | 141 |
| 3x1.5   | 9.6   | 89  | 159 |
| 3x1.5   | 9,6   | 89  | 159 |
| 4x1.5   | 10.5  | 107 | 188 |
| 4x1.5   | 10,5  | 107 | 188 |
| 5x1.5   | 11.4  | 125 | 224 |
| 5x1.5   | 11,4  | 125 | 224 |
| 7x1.5   | 12.3  | 160 | 273 |
| 7x1.5   | 12,3  | 160 | 273 |
| 12x1.5  | 16.5  | 288 | 466 |
| 12x1.5  | 16,5  | 288 | 466 |
| 16x1.5  | 18.2  | 357 | 580 |
| 16x1.5  | 18,2  | 357 | 580 |
| 19x1.5  | 19.1  | 408 | 652 |
| 19x1.5  | 19,1  | 408 | 652 |
| 24x1.5  | 22.3  | 502 | 811 |

|        |      |      |      |
|--------|------|------|------|
| 24x1.5 | 22,3 | 502  | 811  |
| 27x1.5 | 22,9 | 549  | 879  |
| 27x1.5 | 22,9 | 549  | 879  |
| 37x1.5 | 25,6 | 713  | 1132 |
| 37x1.5 | 25,6 | 713  | 1132 |
| 1x2.5  | 6,4  | 53   | 90   |
| 1x2.5  | 6,4  | 53   | 90   |
| 2x2.5  | 10,1 | 95   | 177  |
| 2x2.5  | 10,1 | 95   | 177  |
| 3x2.5  | 10,7 | 121  | 201  |
| 3x2.5  | 10,7 | 121  | 201  |
| 4x2.5  | 11,6 | 148  | 242  |
| 4x2.5  | 11,6 | 148  | 242  |
| 5x2.5  | 12,6 | 176  | 291  |
| 5x2.5  | 12,6 | 176  | 291  |
| 7x2.5  | 14,2 | 261  | 397  |
| 7x2.5  | 14,2 | 261  | 397  |
| 12x2.5 | 18,4 | 407  | 617  |
| 12x2.5 | 18,4 | 407  | 617  |
| 16x2.5 | 20,3 | 513  | 778  |
| 16x2.5 | 20,3 | 513  | 778  |
| 19x2.5 | 21,4 | 591  | 880  |
| 19x2.5 | 21,4 | 591  | 880  |
| 24x2.5 | 25,0 | 734  | 1100 |
| 24x2.5 | 25,0 | 734  | 1100 |
| 27x2.5 | 25,6 | 808  | 1200 |
| 27x2.5 | 25,6 | 808  | 1200 |
| 37x2.5 | 28,7 | 1061 | 1561 |
| 37x2.5 | 28,7 | 1061 | 1561 |
| 1x4    | 6,9  | 69   | 111  |
| 1x4    | 6,9  | 69   | 111  |
| 2x4    | 11,1 | 127  | 224  |
| 2x4    | 11,1 | 127  | 224  |
| 3x4    | 11,9 | 168  | 262  |
| 3x4    | 11,9 | 168  | 262  |
| 4x4    | 13,0 | 208  | 318  |
| 4x4    | 13,0 | 208  | 318  |
| 1x6    | 7,6  | 91   | 138  |
| 1x6    | 7,6  | 91   | 138  |
| 2x6    | 12,4 | 172  | 287  |
| 2x6    | 12,4 | 172  | 287  |
| 3x6    | 13,2 | 229  | 338  |
| 3x6    | 13,2 | 229  | 338  |
| 4x6    | 14,8 | 325  | 458  |
| 4x6    | 14,8 | 325  | 458  |
| 1x10   | 8,4  | 134  | 188  |

|      |      |      |      |
|------|------|------|------|
| 1x10 | 8,4  | 134  | 188  |
| 2x10 | 14,4 | 288  | 433  |
| 2x10 | 14,4 | 288  | 433  |
| 3x10 | 15,4 | 388  | 522  |
| 3x10 | 15,4 | 388  | 522  |
| 4x10 | 16,8 | 492  | 652  |
| 4x10 | 16,8 | 492  | 652  |
| 1x16 | 9,3  | 192  | 255  |
| 1x16 | 9,3  | 192  | 255  |
| 2x16 | 18,4 | 421  | 770  |
| 2x16 | 18,4 | 421  | 770  |
| 3x16 | 19,5 | 577  | 934  |
| 3x16 | 19,5 | 577  | 934  |
| 4x16 | 21,2 | 736  | 1146 |
| 4x16 | 21,2 | 736  | 1146 |
| 1x25 | 11,1 | 288  | 374  |
| 1x25 | 11,1 | 288  | 374  |
| 2x25 | 22,0 | 619  | 1117 |
| 2x25 | 22,0 | 619  | 1117 |
| 3x25 | 23,4 | 863  | 1370 |
| 3x25 | 23,4 | 863  | 1370 |
| 4x25 | 25,6 | 1113 | 1698 |
| 4x25 | 25,6 | 1113 | 1698 |
| 1x35 | 12,2 | 382  | 480  |
| 1x35 | 12,2 | 382  | 480  |
| 2x35 | 24,2 | 812  | 1406 |
| 2x35 | 24,2 | 812  | 1406 |
| 3x35 | 25,8 | 1145 | 1747 |
| 3x35 | 25,8 | 1145 | 1747 |
| 4x35 | 28,2 | 1484 | 2179 |
| 4x35 | 28,2 | 1484 | 2179 |
| 1x50 | 14,1 | 524  | 647  |
| 1x50 | 14,1 | 524  | 647  |
| 2x50 | 27,0 | 1046 | 1783 |
| 2x50 | 27,0 | 1046 | 1783 |
| 3x50 | 28,9 | 1489 | 2233 |
| 3x50 | 28,9 | 1489 | 2233 |
| 4x50 | 31,7 | 1936 | 2796 |
| 4x50 | 31,7 | 1936 | 2796 |
| 1x70 | 17,0 | 754  | 914  |
| 1x70 | 17,0 | 754  | 914  |
| 2x70 | 33,2 | 1509 | 2607 |
| 2x70 | 33,2 | 1509 | 2607 |
| 3x70 | 35,9 | 2246 | 3352 |
| 3x70 | 35,9 | 2246 | 3352 |
| 4x70 | 39,5 | 2910 | 4188 |

|       |      |      |       |
|-------|------|------|-------|
| 4x70  | 39,5 | 2910 | 4188  |
| 1x95  | 17,9 | 978  | 1154  |
| 1x95  | 17,9 | 978  | 1154  |
| 2x95  | 35,2 | 1955 | 3183  |
| 2x95  | 35,2 | 1955 | 3183  |
| 3x95  | 38,0 | 2915 | 4145  |
| 3x95  | 38,0 | 2915 | 4145  |
| 4x95  | 41,9 | 3803 | 5229  |
| 4x95  | 41,9 | 3803 | 5229  |
| 1x120 | 20,0 | 1360 | 1570  |
| 1x120 | 20,0 | 1360 | 1570  |
| 3x120 | 42,4 | 4058 | 5568  |
| 3x120 | 42,4 | 4058 | 5568  |
| 4x120 | 47,2 | 5318 | 7127  |
| 4x120 | 47,2 | 5318 | 7127  |
| 1x150 | 21,8 | 1536 | 1784  |
| 1x150 | 21,8 | 1536 | 1784  |
| 3x150 | 46,8 | 4585 | 6446  |
| 3x150 | 46,8 | 4585 | 6446  |
| 4x150 | 51,7 | 6018 | 8178  |
| 4x150 | 51,7 | 6018 | 8178  |
| 1x185 | 24,3 | 1822 | 2123  |
| 1x185 | 24,3 | 1822 | 2123  |
| 3x185 | 52,1 | 5443 | 7729  |
| 3x185 | 52,1 | 5443 | 7729  |
| 1x240 | 28,6 | 2360 | 2741  |
| 1x240 | 28,6 | 2360 | 2741  |
| 3x240 | 61,8 | 7079 | 10229 |
| 3x240 | 61,8 | 7079 | 10229 |
| 1x300 | 29,7 | 3257 | 3673  |
| 1x300 | 29,7 | 3257 | 3673  |

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