

# FM2XAACH



## Areas of Use

Used for communication and instrumentation purpose in electronic systems of marine vehicles. Screening layer protects the transmitting signal against electromagnetic interferences. Halogen-Free and Flame Retardant construction ensure non-corrosive and highly visible environment during a fire.

## Cable Construction

|                     |                                                                                                                     |
|---------------------|---------------------------------------------------------------------------------------------------------------------|
| Conductor           | Stranded Annealed Copper (IEC/EN 60228, Class 2) (tinned copper and/or Class 5 versions are available upon request) |
| Insulation          | XLPE (IEC 60092-360)                                                                                                |
| Core Colors         | Pair: Black / White, Numbered Quad: Black / White / Red / Blue, Numbered                                            |
| 1. Separator        | PET Foil                                                                                                            |
| Individual Screen   | Al-PET Foil (with Tinned Copper Drain Wire)                                                                         |
| 2. Separator        | PET Foil                                                                                                            |
| Lay-up              | Shielded pairs / triples are stranded in layers                                                                     |
| Separator           | PET Foil                                                                                                            |
| 1. Overall Screen   | Al-PET Foil (with Tinned Copper Drain Wire)                                                                         |
| Separator           | PET Foil (HFFR filler upon request)                                                                                 |
| 2. Overall Screen   | Annealed Copper Wire Braid (90% Coverage)                                                                           |
| Outer Sheath        | HFFR (IEC 60092-360 SHF1), RAL 9005 - Black or RAL 7001 - Grey                                                      |
| Reference Standards | IEC 60092-376                                                                                                       |

## Technical Properties

|                             |                                             |
|-----------------------------|---------------------------------------------|
| Operating Voltage           | 150/250 (300) V                             |
| Test Voltage                | 1.5 kV (a.c) 3.6 kV (d.c)                   |
| Conductor Resistance        | IEC/EN 60228                                |
| Insulation Resistance       | >5000 M.Ωxkm                                |
| Temperature Range           | -40 °C.....+90 °C                           |
| Flame Retardancy            | IEC/EN 60332-1-2, IEC/EN 60332-3-22 (CAT A) |
| 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<br>(mm/mm²) | Cable Diameter (mm) (± 5%) | Copper Weight (kg / km) | ~ Cable Weight (kg / km) |
|-------------------------------------------|----------------------------|-------------------------|--------------------------|

|          |      |     |     |
|----------|------|-----|-----|
| 2x2x0.5  | 9.7  | 65  | 127 |
| 2x2x0.5  | 9,7  | 65  | 127 |
| 2x2x0.75 | 11.2 | 87  | 164 |
| 2x2x0.75 | 11,2 | 87  | 164 |
| 2x2x1    | 12.0 | 108 | 194 |
| 2x2x1    | 12,0 | 108 | 194 |
| 2x2x1.5  | 13.7 | 135 | 242 |
| 2x2x1.5  | 13,7 | 135 | 242 |
| 2x2x2.5  | 15.9 | 213 | 344 |
| 2x2x2.5  | 15,9 | 213 | 344 |
| 2x3x0.5  | 10.7 | 80  | 153 |
| 2x3x0.5  | 10,7 | 80  | 153 |
| 2x3x0.75 | 12.5 | 106 | 200 |
| 2x3x0.75 | 12,5 | 106 | 200 |
| 2x3x1    | 13.1 | 131 | 233 |
| 2x3x1    | 13,1 | 131 | 233 |
| 2x3x1.5  | 15.8 | 203 | 337 |
| 2x3x1.5  | 15,8 | 203 | 337 |
| 2x3x2.5  | 17.6 | 271 | 430 |
| 2x3x2.5  | 17,6 | 271 | 430 |
| 2x4x0.5  | 12.0 | 96  | 184 |
| 2x4x0.5  | 12,0 | 96  | 184 |
| 2x4x0.75 | 14.1 | 128 | 242 |
| 2x4x0.75 | 14,1 | 128 | 242 |
| 2x4x1    | 15.4 | 192 | 321 |
| 2x4x1    | 15,4 | 192 | 321 |
| 2x4x1.5  | 18.0 | 247 | 413 |
| 2x4x1.5  | 18,0 | 247 | 413 |
| 2x4x2.5  | 20.2 | 336 | 534 |
| 2x4x2.5  | 20,2 | 336 | 534 |
| 3x2x0.5  | 10.3 | 81  | 152 |
| 3x2x0.5  | 10,3 | 81  | 152 |
| 3x2x0.75 | 11.9 | 108 | 199 |
| 3x2x0.75 | 11,9 | 108 | 199 |
| 3x2x1    | 12.7 | 136 | 236 |
| 3x2x1    | 12,7 | 136 | 236 |
| 3x2x1.5  | 15.0 | 205 | 335 |
| 3x2x1.5  | 15,0 | 205 | 335 |
| 3x2x2.5  | 16.8 | 274 | 428 |
| 3x2x2.5  | 16,8 | 274 | 428 |
| 3x3x0.5  | 11.4 | 100 | 185 |
| 3x3x0.5  | 11,4 | 100 | 185 |
| 3x3x0.75 | 13.3 | 136 | 247 |
| 3x3x0.75 | 13,3 | 136 | 247 |
| 3x3x1    | 13.9 | 172 | 292 |
| 3x3x1    | 13,9 | 172 | 292 |

|          |      |     |     |
|----------|------|-----|-----|
| 3x3x1.5  | 16.7 | 259 | 418 |
| 3x3x1.5  | 16,7 | 259 | 418 |
| 3x3x2.5  | 18.8 | 357 | 547 |
| 3x3x2.5  | 18,8 | 357 | 547 |
| 3x4x0.5  | 12.8 | 121 | 225 |
| 3x4x0.5  | 12,8 | 121 | 225 |
| 3x4x0.75 | 15.5 | 198 | 339 |
| 3x4x0.75 | 15,5 | 198 | 339 |
| 3x4x1    | 16.5 | 245 | 399 |
| 3x4x1    | 16,5 | 245 | 399 |
| 3x4x1.5  | 19.3 | 320 | 521 |
| 3x4x1.5  | 19,3 | 320 | 521 |
| 3x4x2.5  | 21.6 | 446 | 684 |
| 3x4x2.5  | 21,6 | 446 | 684 |
| 4x2x0.5  | 11.1 | 98  | 181 |
| 4x2x0.5  | 11,1 | 98  | 181 |
| 4x2x0.75 | 13.0 | 133 | 240 |
| 4x2x0.75 | 13,0 | 133 | 240 |
| 4x2x1    | 13.9 | 169 | 287 |
| 4x2x1    | 13,9 | 169 | 287 |
| 4x2x1.5  | 16.4 | 251 | 407 |
| 4x2x1.5  | 16,4 | 251 | 407 |
| 4x2x2.5  | 18.6 | 340 | 525 |
| 4x2x2.5  | 18,6 | 340 | 525 |
| 4x3x0.5  | 12.3 | 122 | 223 |
| 4x3x0.5  | 12,3 | 122 | 223 |
| 4x3x0.75 | 15.0 | 199 | 335 |
| 4x3x0.75 | 15,0 | 199 | 335 |
| 4x3x1    | 15.7 | 246 | 394 |
| 4x3x1    | 15,7 | 246 | 394 |
| 4x3x1.5  | 18.4 | 320 | 513 |
| 4x3x1.5  | 18,4 | 320 | 513 |
| 4x3x2.5  | 20.6 | 447 | 676 |
| 4x3x2.5  | 20,6 | 447 | 676 |
| 4x4x0.5  | 14.5 | 180 | 307 |
| 4x4x0.5  | 14,5 | 180 | 307 |
| 4x4x0.75 | 17.0 | 242 | 410 |
| 4x4x0.75 | 17,0 | 242 | 410 |
| 4x4x1    | 18.0 | 302 | 487 |
| 4x4x1    | 18,0 | 302 | 487 |
| 4x4x1.5  | 21.1 | 398 | 640 |
| 4x4x1.5  | 21,1 | 398 | 640 |
| 4x4x2.5  | 23.8 | 562 | 852 |
| 4x4x2.5  | 23,8 | 562 | 852 |
| 5x2x0.5  | 12.1 | 116 | 212 |
| 5x2x0.5  | 12,1 | 116 | 212 |

|          |      |     |      |
|----------|------|-----|------|
| 5x2x0.75 | 14.6 | 188 | 317  |
| 5x2x0.75 | 14,6 | 188 | 317  |
| 5x2x1    | 15.6 | 233 | 376  |
| 5x2x1    | 15,6 | 233 | 376  |
| 5x2x1.5  | 17.9 | 297 | 479  |
| 5x2x1.5  | 17,9 | 297 | 479  |
| 5x2x2.5  | 20.3 | 407 | 624  |
| 5x2x2.5  | 20,3 | 407 | 624  |
| 5x3x0.5  | 13.4 | 145 | 262  |
| 5x3x0.5  | 13,4 | 145 | 262  |
| 5x3x0.75 | 16.3 | 234 | 393  |
| 5x3x0.75 | 16,3 | 234 | 393  |
| 5x3x1    | 17.1 | 292 | 466  |
| 5x3x1    | 17,1 | 292 | 466  |
| 5x3x1.5  | 20.2 | 383 | 611  |
| 5x3x1.5  | 20,2 | 383 | 611  |
| 5x3x2.5  | 22.7 | 538 | 811  |
| 5x3x2.5  | 22,7 | 538 | 811  |
| 5x4x0.5  | 15.8 | 211 | 360  |
| 5x4x0.5  | 15,8 | 211 | 360  |
| 5x4x0.75 | 18.6 | 286 | 484  |
| 5x4x0.75 | 18,6 | 286 | 484  |
| 5x4x1    | 19.7 | 360 | 578  |
| 5x4x1    | 19,7 | 360 | 578  |
| 5x4x1.5  | 23.3 | 476 | 765  |
| 5x4x1.5  | 23,3 | 476 | 765  |
| 5x4x2.5  | 26.2 | 678 | 1023 |
| 5x4x2.5  | 26,2 | 678 | 1023 |
| 7x2x0.5  | 13.2 | 145 | 261  |
| 7x2x0.5  | 13,2 | 145 | 261  |
| 7x2x0.75 | 15.9 | 235 | 391  |
| 7x2x0.75 | 15,9 | 235 | 391  |
| 7x2x1    | 17.0 | 296 | 468  |
| 7x2x1    | 17,0 | 296 | 468  |
| 7x2x1.5  | 19.6 | 380 | 603  |
| 7x2x1.5  | 19,6 | 380 | 603  |
| 7x2x2.5  | 22.2 | 529 | 795  |
| 7x2x2.5  | 22,2 | 529 | 795  |
| 7x3x0.5  | 15.0 | 217 | 363  |
| 7x3x0.5  | 15,0 | 217 | 363  |
| 7x3x0.75 | 17.8 | 297 | 492  |
| 7x3x0.75 | 17,8 | 297 | 492  |
| 7x3x1    | 18.6 | 376 | 588  |
| 7x3x1    | 18,6 | 376 | 588  |
| 7x3x1.5  | 22.0 | 495 | 776  |
| 7x3x1.5  | 22,0 | 495 | 776  |

|           |      |     |      |
|-----------|------|-----|------|
| 7x3x2.5   | 24.8 | 707 | 1044 |
| 7x3x2.5   | 24,8 | 707 | 1044 |
| 7x4x0.5   | 17.1 | 265 | 444  |
| 7x4x0.5   | 17,1 | 265 | 444  |
| 7x4x0.75  | 20.3 | 365 | 608  |
| 7x4x0.75  | 20,3 | 365 | 608  |
| 7x4x1     | 21.6 | 465 | 732  |
| 7x4x1     | 21,6 | 465 | 732  |
| 7x4x1.5   | 25.4 | 619 | 976  |
| 7x4x1.5   | 25,4 | 619 | 976  |
| 7x4x2.5   | 28.7 | 897 | 1325 |
| 7x4x2.5   | 28,7 | 897 | 1325 |
| 10x2x0.5  | 17.1 | 236 | 403  |
| 10x2x0.5  | 17,1 | 236 | 403  |
| 10x2x0.75 | 20.1 | 321 | 543  |
| 10x2x0.75 | 20,1 | 321 | 543  |
| 10x2x1    | 21.5 | 407 | 653  |
| 10x2x1    | 21,5 | 407 | 653  |
| 10x2x1.5  | 25.0 | 526 | 847  |
| 10x2x1.5  | 25,0 | 526 | 847  |
| 10x2x2.5  | 28.5 | 735 | 1123 |
| 10x2x2.5  | 28,5 | 735 | 1123 |
| 10x3x0.5  | 19.0 | 298 | 505  |
| 10x3x0.5  | 19,0 | 298 | 505  |
| 10x3x0.75 | 22.6 | 409 | 688  |
| 10x3x0.75 | 22,6 | 409 | 688  |
| 10x3x1    | 23.8 | 520 | 825  |
| 10x3x1    | 23,8 | 520 | 825  |
| 10x3x1.5  | 28.3 | 690 | 1100 |
| 10x3x1.5  | 28,3 | 690 | 1100 |
| 10x3x2.5  | 31.9 | 993 | 1485 |
| 10x3x2.5  | 31,9 | 993 | 1485 |
| 12x2x0.5  | 17.6 | 265 | 448  |
| 12x2x0.5  | 17,6 | 265 | 448  |
| 12x2x0.75 | 20.7 | 363 | 608  |
| 12x2x0.75 | 20,7 | 363 | 608  |
| 12x2x1    | 22.3 | 466 | 736  |
| 12x2x1    | 22,3 | 466 | 736  |
| 12x2x1.5  | 26.0 | 604 | 960  |
| 12x2x1.5  | 26,0 | 604 | 960  |
| 12x2x2.5  | 29.5 | 851 | 1280 |
| 12x2x2.5  | 29,5 | 851 | 1280 |
| 16x2x0.5  | 19.4 | 330 | 553  |
| 16x2x0.5  | 19,4 | 330 | 553  |
| 16x2x0.75 | 23.1 | 457 | 758  |
| 16x2x0.75 | 23,1 | 457 | 758  |

|           |      |      |      |
|-----------|------|------|------|
| 16x2x1    | 24.8 | 590  | 924  |
| 16x2x1    | 24,8 | 590  | 924  |
| 16x2x1.5  | 28.9 | 766  | 1209 |
| 16x2x1.5  | 28,9 | 766  | 1209 |
| 16x2x2.5  | 33.0 | 1101 | 1636 |
| 16x2x2.5  | 33,0 | 1101 | 1636 |
| 19x2x0.5  | 20.5 | 375  | 625  |
| 19x2x0.5  | 20,5 | 375  | 625  |
| 19x2x0.75 | 24.2 | 523  | 862  |
| 19x2x0.75 | 24,2 | 523  | 862  |
| 19x2x1    | 26.2 | 679  | 1056 |
| 19x2x1    | 26,2 | 679  | 1056 |
| 19x2x1.5  | 30.5 | 891  | 1392 |
| 19x2x1.5  | 30,5 | 891  | 1392 |
| 19x2x2.5  | 34.8 | 1270 | 1875 |
| 19x2x2.5  | 34,8 | 1270 | 1875 |
| 24x2x0.5  | 23.9 | 463  | 780  |
| 24x2x0.5  | 23,9 | 463  | 780  |
| 24x2x0.75 | 28.4 | 648  | 1080 |
| 24x2x0.75 | 28,4 | 648  | 1080 |
| 24x2x1    | 30.8 | 846  | 1328 |
| 24x2x1    | 30,8 | 846  | 1328 |
| 24x2x1.5  | 36.0 | 1106 | 1750 |
| 24x2x1.5  | 36,0 | 1106 | 1750 |
| 24x2x2.5  | 41.6 | 1678 | 2468 |
| 24x2x2.5  | 41,6 | 1678 | 2468 |
| 27x2x0.5  | 24.5 | 505  | 845  |
| 27x2x0.5  | 24,5 | 505  | 845  |
| 27x2x0.75 | 29.1 | 715  | 1178 |
| 27x2x0.75 | 29,1 | 715  | 1178 |
| 27x2x1    | 31.4 | 934  | 1450 |
| 27x2x1    | 31,4 | 934  | 1450 |
| 27x2x1.5  | 36.8 | 1216 | 1907 |
| 27x2x1.5  | 36,8 | 1216 | 1907 |
| 27x2x2.5  | 42.5 | 1848 | 2696 |
| 27x2x2.5  | 42,5 | 1848 | 2696 |
| 37x2x0.5  | 27.4 | 654  | 1083 |
| 37x2x0.5  | 27,4 | 654  | 1083 |
| 37x2x0.75 | 32.7 | 932  | 1525 |
| 37x2x0.75 | 32,7 | 932  | 1525 |
| 37x2x1    | 35.4 | 1225 | 1885 |
| 37x2x1    | 35,4 | 1225 | 1885 |
| 37x2x1.5  | 41.9 | 1699 | 2596 |
| 37x2x1.5  | 41,9 | 1699 | 2596 |
| 37x2x2.5  | 47.9 | 2444 | 3535 |
| 37x2x2.5  | 47,9 | 2444 | 3535 |

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