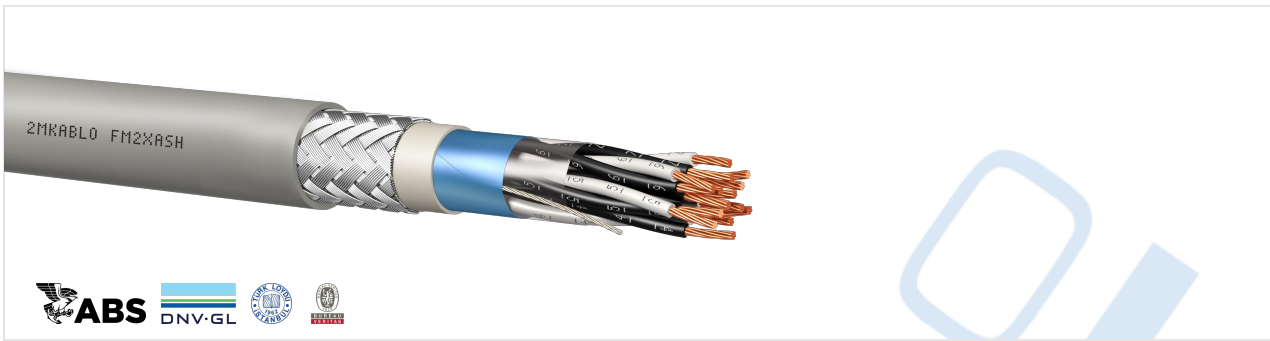


FM2XASH



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 |
| Lay-up | Cores / pairs / triples / quads are stranded in layers |
| Separator | PET Foil |
| Overall Screen | Al-PET Foil (with Tinned Copper Drain Wire) |
| Inner Sheath | HFFR |
| Armour | Galvanised Steel Wire Braid |
| 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 (mm/mm ²) | Cable Diameter (mm) (± 5%) | Copper Weight (kg / km) | ~ Cable Weight (kg / km) |
|---|----------------------------|-------------------------|--------------------------|
| 1x2x0.5 | 6.9 | 13 | 74 |
| 1x2x0.5 | 6,9 | 13 | 74 |
| 1x2x0.75 | 7.8 | 19 | 91 |

| | | | |
|----------|------|-----|-----|
| 1x2x0.75 | 7,8 | 19 | 91 |
| 1x2x1 | 8.2 | 27 | 101 |
| 1x2x1 | 8,2 | 27 | 101 |
| 1x2x1.5 | 9.2 | 36 | 129 |
| 1x2x1.5 | 9,2 | 36 | 129 |
| 1x2x2.5 | 10.2 | 54 | 159 |
| 1x2x2.5 | 10,2 | 54 | 159 |
| 1x3x0.5 | 7.3 | 18 | 83 |
| 1x3x0.5 | 7,3 | 18 | 83 |
| 1x3x0.75 | 8.2 | 26 | 106 |
| 1x3x0.75 | 8,2 | 26 | 106 |
| 1x3x1 | 8.7 | 36 | 120 |
| 1x3x1 | 8,7 | 36 | 120 |
| 1x3x1.5 | 9.7 | 50 | 154 |
| 1x3x1.5 | 9,7 | 50 | 154 |
| 1x3x2.5 | 10.7 | 77 | 195 |
| 1x3x2.5 | 10,7 | 77 | 195 |
| 1x4x0.5 | 7.7 | 22 | 96 |
| 1x4x0.5 | 7,7 | 22 | 96 |
| 1x4x0.75 | 8.8 | 34 | 124 |
| 1x4x0.75 | 8,8 | 34 | 124 |
| 1x4x1 | 9.3 | 46 | 142 |
| 1x4x1 | 9,3 | 46 | 142 |
| 1x4x1.5 | 10.5 | 64 | 182 |
| 1x4x1.5 | 10,5 | 64 | 182 |
| 1x4x2.5 | 11.6 | 100 | 235 |
| 1x4x2.5 | 11,6 | 100 | 235 |
| 2x2x0.5 | 9.3 | 22 | 119 |
| 2x2x0.5 | 9,3 | 22 | 119 |
| 2x2x0.75 | 10.8 | 34 | 151 |
| 2x2x0.75 | 10,8 | 34 | 151 |
| 2x2x1 | 11.4 | 46 | 171 |
| 2x2x1 | 11,4 | 46 | 171 |
| 2x2x1.5 | 13.1 | 64 | 219 |
| 2x2x1.5 | 13,1 | 64 | 219 |
| 2x2x2.5 | 14.6 | 100 | 280 |
| 2x2x2.5 | 14,6 | 100 | 280 |
| 2x3x0.5 | 10.2 | 32 | 143 |
| 2x3x0.5 | 10,2 | 32 | 143 |
| 2x3x0.75 | 11.9 | 48 | 187 |
| 2x3x0.75 | 11,9 | 48 | 187 |
| 2x3x1 | 12.6 | 66 | 212 |
| 2x3x1 | 12,6 | 66 | 212 |
| 2x3x1.5 | 14.5 | 93 | 277 |
| 2x3x1.5 | 14,5 | 93 | 277 |
| 2x3x2.5 | 16.2 | 146 | 361 |

| | | | |
|----------|------|-----|-----|
| 2x3x2.5 | 16,2 | 146 | 361 |
| 2x4x0.5 | 12,2 | 41 | 184 |
| 2x4x0.5 | 12,2 | 41 | 184 |
| 2x4x0.75 | 14,4 | 62 | 240 |
| 2x4x0.75 | 14,4 | 62 | 240 |
| 2x4x1 | 15,2 | 85 | 277 |
| 2x4x1 | 15,2 | 85 | 277 |
| 2x4x1.5 | 17,7 | 121 | 365 |
| 2x4x1.5 | 17,7 | 121 | 365 |
| 2x4x2.5 | 20,0 | 192 | 479 |
| 2x4x2.5 | 20,0 | 192 | 479 |
| 3x2x0.5 | 9,8 | 32 | 138 |
| 3x2x0.5 | 9,8 | 32 | 138 |
| 3x2x0.75 | 11,4 | 48 | 178 |
| 3x2x0.75 | 11,4 | 48 | 178 |
| 3x2x1 | 12,0 | 66 | 205 |
| 3x2x1 | 12,0 | 66 | 205 |
| 3x2x1.5 | 13,8 | 93 | 266 |
| 3x2x1.5 | 13,8 | 93 | 266 |
| 3x2x2.5 | 15,5 | 146 | 349 |
| 3x2x2.5 | 15,5 | 146 | 349 |
| 3x3x0.5 | 10,7 | 46 | 170 |
| 3x3x0.5 | 10,7 | 46 | 170 |
| 3x3x0.75 | 12,5 | 70 | 225 |
| 3x3x0.75 | 12,5 | 70 | 225 |
| 3x3x1 | 13,3 | 95 | 260 |
| 3x3x1 | 13,3 | 95 | 260 |
| 3x3x1.5 | 15,5 | 135 | 347 |
| 3x3x1.5 | 15,5 | 135 | 347 |
| 3x3x2.5 | 17,3 | 215 | 462 |
| 3x3x2.5 | 17,3 | 215 | 462 |
| 3x4x0.5 | 13,0 | 60 | 222 |
| 3x4x0.5 | 13,0 | 60 | 222 |
| 3x4x0.75 | 15,2 | 91 | 293 |
| 3x4x0.75 | 15,2 | 91 | 293 |
| 3x4x1 | 16,2 | 124 | 342 |
| 3x4x1 | 16,2 | 124 | 342 |
| 3x4x1.5 | 18,9 | 178 | 459 |
| 3x4x1.5 | 18,9 | 178 | 459 |
| 3x4x2.5 | 21,3 | 284 | 613 |
| 3x4x2.5 | 21,3 | 284 | 613 |
| 4x2x0.5 | 10,6 | 41 | 160 |
| 4x2x0.5 | 10,6 | 41 | 160 |
| 4x2x0.75 | 12,3 | 62 | 212 |
| 4x2x0.75 | 12,3 | 62 | 212 |
| 4x2x1 | 13,1 | 85 | 246 |

| | | | |
|----------|------|-----|-----|
| 4x2x1 | 13,1 | 85 | 246 |
| 4x2x1.5 | 15.1 | 121 | 324 |
| 4x2x1.5 | 15,1 | 121 | 324 |
| 4x2x2.5 | 17.0 | 192 | 429 |
| 4x2x2.5 | 17,0 | 192 | 429 |
| 4x3x0.5 | 11.7 | 60 | 201 |
| 4x3x0.5 | 11,7 | 60 | 201 |
| 4x3x0.75 | 13.7 | 91 | 270 |
| 4x3x0.75 | 13,7 | 91 | 270 |
| 4x3x1 | 14.6 | 124 | 316 |
| 4x3x1 | 14,6 | 124 | 316 |
| 4x3x1.5 | 16.9 | 178 | 426 |
| 4x3x1.5 | 16,9 | 178 | 426 |
| 4x3x2.5 | 18.9 | 284 | 573 |
| 4x3x2.5 | 18,9 | 284 | 573 |
| 4x4x0.5 | 14.1 | 79 | 262 |
| 4x4x0.5 | 14,1 | 79 | 262 |
| 4x4x0.75 | 16.7 | 120 | 355 |
| 4x4x0.75 | 16,7 | 120 | 355 |
| 4x4x1 | 17.8 | 163 | 418 |
| 4x4x1 | 17,8 | 163 | 418 |
| 4x4x1.5 | 20.8 | 235 | 564 |
| 4x4x1.5 | 20,8 | 235 | 564 |
| 4x4x2.5 | 23.5 | 375 | 766 |
| 4x4x2.5 | 23,5 | 375 | 766 |
| 5x2x0.5 | 11.5 | 51 | 186 |
| 5x2x0.5 | 11,5 | 51 | 186 |
| 5x2x0.75 | 13.4 | 77 | 249 |
| 5x2x0.75 | 13,4 | 77 | 249 |
| 5x2x1 | 14.3 | 105 | 288 |
| 5x2x1 | 14,3 | 105 | 288 |
| 5x2x1.5 | 16.5 | 150 | 383 |
| 5x2x1.5 | 16,5 | 150 | 383 |
| 5x2x2.5 | 18.5 | 238 | 510 |
| 5x2x2.5 | 18,5 | 238 | 510 |
| 5x3x0.5 | 12.7 | 74 | 236 |
| 5x3x0.5 | 12,7 | 74 | 236 |
| 5x3x0.75 | 14.9 | 113 | 319 |
| 5x3x0.75 | 14,9 | 113 | 319 |
| 5x3x1 | 15.9 | 153 | 375 |
| 5x3x1 | 15,9 | 153 | 375 |
| 5x3x1.5 | 18.5 | 221 | 507 |
| 5x3x1.5 | 18,5 | 221 | 507 |
| 5x3x2.5 | 20.8 | 352 | 689 |
| 5x3x2.5 | 20,8 | 352 | 689 |
| 5x4x0.5 | 15.4 | 98 | 308 |

| | | | |
|-----------|------|-----|------|
| 5x4x0.5 | 15,4 | 98 | 308 |
| 5x4x0.75 | 18,3 | 149 | 420 |
| 5x4x0.75 | 18,3 | 149 | 420 |
| 5x4x1 | 19,6 | 202 | 496 |
| 5x4x1 | 19,6 | 202 | 496 |
| 5x4x1.5 | 22,8 | 292 | 675 |
| 5x4x1.5 | 22,8 | 292 | 675 |
| 5x4x2.5 | 25,8 | 467 | 921 |
| 5x4x2.5 | 25,8 | 467 | 921 |
| 7x2x0.5 | 12,3 | 70 | 224 |
| 7x2x0.5 | 12,3 | 70 | 224 |
| 7x2x0.75 | 14,5 | 106 | 305 |
| 7x2x0.75 | 14,5 | 106 | 305 |
| 7x2x1 | 15,5 | 144 | 356 |
| 7x2x1 | 15,5 | 144 | 356 |
| 7x2x1.5 | 17,9 | 207 | 481 |
| 7x2x1.5 | 17,9 | 207 | 481 |
| 7x2x2.5 | 20,2 | 329 | 651 |
| 7x2x2.5 | 20,2 | 329 | 651 |
| 7x3x0.5 | 13,7 | 103 | 289 |
| 7x3x0.5 | 13,7 | 103 | 289 |
| 7x3x0.75 | 16,2 | 156 | 399 |
| 7x3x0.75 | 16,2 | 156 | 399 |
| 7x3x1 | 17,3 | 212 | 474 |
| 7x3x1 | 17,3 | 212 | 474 |
| 7x3x1.5 | 20,1 | 306 | 646 |
| 7x3x1.5 | 20,1 | 306 | 646 |
| 7x3x2.5 | 22,7 | 490 | 892 |
| 7x3x2.5 | 22,7 | 490 | 892 |
| 7x4x0.5 | 16,8 | 136 | 382 |
| 7x4x0.5 | 16,8 | 136 | 382 |
| 7x4x0.75 | 19,9 | 207 | 527 |
| 7x4x0.75 | 19,9 | 207 | 527 |
| 7x4x1 | 21,3 | 280 | 628 |
| 7x4x1 | 21,3 | 280 | 628 |
| 7x4x1.5 | 25,0 | 406 | 863 |
| 7x4x1.5 | 25,0 | 406 | 863 |
| 7x4x2.5 | 28,3 | 650 | 1193 |
| 7x4x2.5 | 28,3 | 650 | 1193 |
| 10x2x0.5 | 15,4 | 98 | 308 |
| 10x2x0.5 | 15,4 | 98 | 308 |
| 10x2x0.75 | 18,3 | 149 | 421 |
| 10x2x0.75 | 18,3 | 149 | 421 |
| 10x2x1 | 19,6 | 202 | 496 |
| 10x2x1 | 19,6 | 202 | 496 |
| 10x2x1.5 | 22,9 | 292 | 677 |

| | | | |
|-----------|------|-----|------|
| 10x2x1.5 | 22,9 | 292 | 677 |
| 10x2x2.5 | 25,9 | 467 | 922 |
| 10x2x2.5 | 25,9 | 467 | 922 |
| 10x3x0.5 | 17,2 | 145 | 402 |
| 10x3x0.5 | 17,2 | 145 | 402 |
| 10x3x0.75 | 20,5 | 221 | 556 |
| 10x3x0.75 | 20,5 | 221 | 556 |
| 10x3x1 | 21,9 | 299 | 665 |
| 10x3x1 | 21,9 | 299 | 665 |
| 10x3x1.5 | 25,8 | 434 | 917 |
| 10x3x1.5 | 25,8 | 434 | 917 |
| 10x3x2.5 | 29,2 | 696 | 1269 |
| 10x3x2.5 | 29,2 | 696 | 1269 |
| 12x2x0.5 | 15,9 | 117 | 343 |
| 12x2x0.5 | 15,9 | 117 | 343 |
| 12x2x0.75 | 18,9 | 178 | 472 |
| 12x2x0.75 | 18,9 | 178 | 472 |
| 12x2x1 | 20,2 | 241 | 559 |
| 12x2x1 | 20,2 | 241 | 559 |
| 12x2x1.5 | 23,7 | 349 | 765 |
| 12x2x1.5 | 23,7 | 349 | 765 |
| 12x2x2.5 | 26,8 | 559 | 1053 |
| 12x2x2.5 | 26,8 | 559 | 1053 |
| 16x2x0.5 | 17,5 | 155 | 421 |
| 16x2x0.5 | 17,5 | 155 | 421 |
| 16x2x0.75 | 21,0 | 235 | 584 |
| 16x2x0.75 | 21,0 | 235 | 584 |
| 16x2x1 | 22,5 | 319 | 699 |
| 16x2x1 | 22,5 | 319 | 699 |
| 16x2x1.5 | 26,4 | 463 | 963 |
| 16x2x1.5 | 26,4 | 463 | 963 |
| 16x2x2.5 | 29,8 | 742 | 1338 |
| 16x2x2.5 | 29,8 | 742 | 1338 |
| 19x2x0.5 | 18,5 | 183 | 474 |
| 19x2x0.5 | 18,5 | 183 | 474 |
| 19x2x0.75 | 22,1 | 279 | 664 |
| 19x2x0.75 | 22,1 | 279 | 664 |
| 19x2x1 | 23,7 | 377 | 797 |
| 19x2x1 | 23,7 | 377 | 797 |
| 19x2x1.5 | 27,9 | 548 | 1105 |
| 19x2x1.5 | 27,9 | 548 | 1105 |
| 19x2x2.5 | 31,5 | 880 | 1542 |
| 19x2x2.5 | 31,5 | 880 | 1542 |
| 24x2x0.5 | 21,5 | 231 | 589 |
| 24x2x0.5 | 21,5 | 231 | 589 |
| 24x2x0.75 | 25,8 | 351 | 830 |

| | | | |
|-----------|------|------|------|
| 24x2x0.75 | 25,8 | 351 | 830 |
| 24x2x1 | 27,8 | 474 | 1001 |
| 24x2x1 | 27,8 | 474 | 1001 |
| 24x2x1.5 | 32,7 | 690 | 1395 |
| 24x2x1.5 | 32,7 | 690 | 1395 |
| 24x2x2.5 | 37,3 | 1109 | 1949 |
| 24x2x2.5 | 37,3 | 1109 | 1949 |
| 27x2x0.5 | 21,9 | 259 | 637 |
| 27x2x0.5 | 21,9 | 259 | 637 |
| 27x2x0.75 | 26,4 | 394 | 900 |
| 27x2x0.75 | 26,4 | 394 | 900 |
| 27x2x1 | 28,4 | 533 | 1089 |
| 27x2x1 | 28,4 | 533 | 1089 |
| 27x2x1.5 | 33,5 | 776 | 1519 |
| 27x2x1.5 | 33,5 | 776 | 1519 |
| 27x2x2.5 | 38,5 | 1247 | 2218 |
| 27x2x2.5 | 38,5 | 1247 | 2218 |
| 37x2x0.5 | 24,5 | 354 | 813 |
| 37x2x0.5 | 24,5 | 354 | 813 |
| 37x2x0.75 | 29,6 | 538 | 1160 |
| 37x2x0.75 | 29,6 | 538 | 1160 |
| 37x2x1 | 31,9 | 728 | 1414 |
| 37x2x1 | 31,9 | 728 | 1414 |
| 37x2x1.5 | 38,1 | 1061 | 2065 |
| 37x2x1.5 | 38,1 | 1061 | 2065 |
| 37x2x2.5 | 43,3 | 1705 | 2908 |
| 37x2x2.5 | 43,3 | 1705 | 2908 |

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