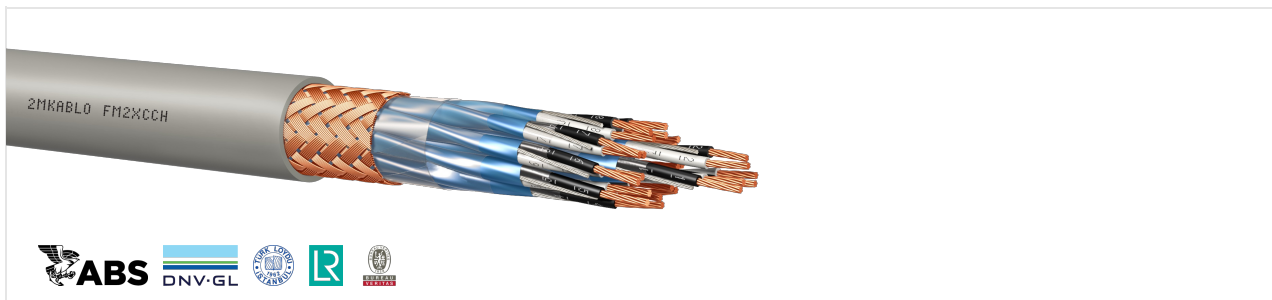


## FM2XCCH



### 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

|                            |   |
|----------------------------|---|
| <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>         | Pair: Black / White, Numbered Quad: Black / White / Red / Blue, Numbered  |
| <b>1. Separator</b>        | PET Foil  |
| <b>Individual Screen</b>   | Al-PET Foil (with Tinned Copper Drain Wire)   |
| <b>2. Separator</b>        | PET Foil  |
| <b>Lay-up</b>              | Shielded pairs / triples / quads are stranded in layers   |
| <b>Separator</b>           | PET Foil (HFFR filler upon request)   |
| <b>Overall Screen</b>      | Annealed Copper Wire Braiding (90% Coverage)  |
| <b>Outer Sheath</b>        | HFFR (IEC 60092-360 SHF1), RAL 9005 - Black or RAL 7001 - Grey  |
| <b>Reference Standards</b> | IEC 60092-376   |

### Technical Properties

|                                    |   |
|------------------------------------|---|
| <b>Operating Voltage</b>           | 150/250 (300) V                             |
| <b>Test Voltage</b>                | 1.5 kV (a.c) 3.6 kV (d.c)                   |
| <b>Conductor Resistance</b>        | IEC/EN 60228                                |
| <b>Insulation Resistance</b>       | >5000 M.Ωxkm                                |
| <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) (± 5%) | Copper Weight (kg / km) | ~ Cable Weight (kg / km) |
|---|----------------------------|-------------------------|--------------------------|
| 2x2x0.5   | 9.5                        | 61                      | 119                      |
| 2x2x0.5   | 9,5                        | 61                      | 119                      |

|          |      |     |      |
|----------|------|-----|------|
| 2x3x0.5  | 10.6 | 75  | 145  |
| 2x3x0.5  | 10,6 | 75  | 145  |
| 2x4x0.5  | 11.9 | 92  | 176  |
| 2x4x0.5  | 11,9 | 92  | 176  |
| 3x2x0.5  | 10.1 | 77  | 144  |
| 3x2x0.5  | 10,1 | 77  | 144  |
| 3x3x0.5  | 11.1 | 97  | 178  |
| 3x3x0.5  | 11,1 | 97  | 178  |
| 3x4x0.5  | 12.6 | 118 | 217  |
| 3x4x0.5  | 12,6 | 118 | 217  |
| 4x2x0.5  | 11.0 | 93  | 173  |
| 4x2x0.5  | 11,0 | 93  | 173  |
| 4x3x0.5  | 12.2 | 119 | 215  |
| 4x3x0.5  | 12,2 | 119 | 215  |
| 4x4x0.5  | 13.8 | 145 | 263  |
| 4x4x0.5  | 13,8 | 145 | 263  |
| 5x2x0.5  | 12.0 | 111 | 204  |
| 5x2x0.5  | 12,0 | 111 | 204  |
| 5x3x0.5  | 13.3 | 141 | 254  |
| 5x3x0.5  | 13,3 | 141 | 254  |
| 5x4x0.5  | 15.6 | 206 | 349  |
| 5x4x0.5  | 15,6 | 206 | 349  |
| 7x2x0.5  | 13.0 | 141 | 251  |
| 7x2x0.5  | 13,0 | 141 | 251  |
| 7x3x0.5  | 14.9 | 213 | 354  |
| 7x3x0.5  | 14,9 | 213 | 354  |
| 7x4x0.5  | 17.0 | 260 | 434  |
| 7x4x0.5  | 17,0 | 260 | 434  |
| 10x2x0.5 | 16.8 | 232 | 393  |
| 10x2x0.5 | 16,8 | 232 | 393  |
| 10x3x0.5 | 18.9 | 293 | 493  |
| 10x3x0.5 | 18,9 | 293 | 493  |
| 12x2x0.5 | 17.4 | 261 | 438  |
| 12x2x0.5 | 17,4 | 261 | 438  |
| 16x2x0.5 | 19.3 | 324 | 541  |
| 16x2x0.5 | 19,3 | 324 | 541  |
| 19x2x0.5 | 20.3 | 371 | 613  |
| 19x2x0.5 | 20,3 | 371 | 613  |
| 24x2x0.5 | 23.7 | 459 | 768  |
| 24x2x0.5 | 23,7 | 459 | 768  |
| 27x2x0.5 | 24.3 | 500 | 831  |
| 27x2x0.5 | 24,3 | 500 | 831  |
| 37x2x0.5 | 27.2 | 650 | 1070 |
| 37x2x0.5 | 27,2 | 650 | 1070 |
| 2x2x0.75 | 11.1 | 82  | 156  |
| 2x2x0.75 | 11,1 | 82  | 156  |

|           |      |     |      |
|-----------|------|-----|------|
| 2x3x0.75  | 12.3 | 101 | 190  |
| 2x3x0.75  | 12,3 | 101 | 190  |
| 2x4x0.75  | 14.0 | 124 | 233  |
| 2x4x0.75  | 14,0 | 124 | 233  |
| 3x2x0.75  | 11.8 | 103 | 190  |
| 3x2x0.75  | 11,8 | 103 | 190  |
| 3x3x0.75  | 13.2 | 131 | 237  |
| 3x3x0.75  | 13,2 | 131 | 237  |
| 3x4x0.75  | 15.4 | 192 | 327  |
| 3x4x0.75  | 15,4 | 192 | 327  |
| 4x2x0.75  | 12.8 | 128 | 231  |
| 4x2x0.75  | 12,8 | 128 | 231  |
| 4x3x0.75  | 14.8 | 193 | 324  |
| 4x3x0.75  | 14,8 | 193 | 324  |
| 4x4x0.75  | 16.8 | 236 | 398  |
| 4x4x0.75  | 16,8 | 236 | 398  |
| 5x2x0.75  | 14.0 | 153 | 273  |
| 5x2x0.75  | 14,0 | 153 | 273  |
| 5x3x0.75  | 16.2 | 228 | 382  |
| 5x3x0.75  | 16,2 | 228 | 382  |
| 5x4x0.75  | 18.4 | 280 | 471  |
| 5x4x0.75  | 18,4 | 280 | 471  |
| 7x2x0.75  | 15.8 | 229 | 380  |
| 7x2x0.75  | 15,8 | 229 | 380  |
| 7x3x0.75  | 17.7 | 291 | 479  |
| 7x3x0.75  | 17,7 | 291 | 479  |
| 7x4x0.75  | 20.2 | 360 | 596  |
| 7x4x0.75  | 20,2 | 360 | 596  |
| 10x2x0.75 | 19.9 | 315 | 530  |
| 10x2x0.75 | 19,9 | 315 | 530  |
| 10x3x0.75 | 22.5 | 402 | 673  |
| 10x3x0.75 | 22,5 | 402 | 673  |
| 12x2x0.75 | 20.6 | 358 | 596  |
| 12x2x0.75 | 20,6 | 358 | 596  |
| 16x2x0.75 | 22.9 | 451 | 744  |
| 16x2x0.75 | 22,9 | 451 | 744  |
| 19x2x0.75 | 24.1 | 517 | 848  |
| 19x2x0.75 | 24,1 | 517 | 848  |
| 24x2x0.75 | 28.3 | 643 | 1064 |
| 24x2x0.75 | 28,3 | 643 | 1064 |
| 27x2x0.75 | 29.0 | 703 | 1157 |
| 27x2x0.75 | 29,0 | 703 | 1157 |
| 37x2x0.75 | 32.5 | 923 | 1502 |
| 37x2x0.75 | 32,5 | 923 | 1502 |
| 2x2x1     | 11.9 | 99  | 180  |
| 2x2x1     | 11,9 | 99  | 180  |

|         |      |      |      |
|---------|------|------|------|
| 2x3x1   | 13.1 | 124  | 222  |
| 2x3x1   | 13,1 | 124  | 222  |
| 2x4x1   | 15.5 | 184  | 309  |
| 2x4x1   | 15,5 | 184  | 309  |
| 3x2x1   | 12.5 | 129  | 224  |
| 3x2x1   | 12,5 | 129  | 224  |
| 3x3x1   | 14.0 | 164  | 280  |
| 3x3x1   | 14,0 | 164  | 280  |
| 3x4x1   | 16.5 | 237  | 386  |
| 3x4x1   | 16,5 | 237  | 386  |
| 4x2x1   | 13.8 | 160  | 274  |
| 4x2x1   | 13,8 | 160  | 274  |
| 4x3x1   | 15.7 | 239  | 382  |
| 4x3x1   | 15,7 | 239  | 382  |
| 4x4x1   | 18.2 | 294  | 475  |
| 4x4x1   | 18,2 | 294  | 475  |
| 5x2x1   | 15.5 | 224  | 361  |
| 5x2x1   | 15,5 | 224  | 361  |
| 5x3x1   | 17.2 | 284  | 452  |
| 5x3x1   | 17,2 | 284  | 452  |
| 5x4x1   | 19.9 | 352  | 565  |
| 5x4x1   | 19,9 | 352  | 565  |
| 7x2x1   | 16.8 | 287  | 454  |
| 7x2x1   | 16,8 | 287  | 454  |
| 7x3x1   | 18.8 | 368  | 576  |
| 7x3x1   | 18,8 | 368  | 576  |
| 7x4x1   | 21.7 | 457  | 719  |
| 7x4x1   | 21,7 | 457  | 719  |
| 10x2x1  | 21.4 | 398  | 637  |
| 10x2x1  | 21,4 | 398  | 637  |
| 10x3x1  | 24.1 | 513  | 813  |
| 10x3x1  | 24,1 | 513  | 813  |
| 12x2x1  | 22.2 | 457  | 721  |
| 12x2x1  | 22,2 | 457  | 721  |
| 16x2x1  | 24.6 | 581  | 906  |
| 16x2x1  | 24,6 | 581  | 906  |
| 19x2x1  | 26.0 | 670  | 1038 |
| 19x2x1  | 26,0 | 670  | 1038 |
| 24x2x1  | 30.7 | 837  | 1307 |
| 24x2x1  | 30,7 | 837  | 1307 |
| 27x2x1  | 31.3 | 929  | 1434 |
| 27x2x1  | 31,3 | 929  | 1434 |
| 37x2x1  | 35.2 | 1222 | 1868 |
| 37x2x1  | 35,2 | 1222 | 1868 |
| 2x2x1.5 | 13.6 | 126  | 228  |
| 2x2x1.5 | 13,6 | 126  | 228  |

|          |      |      |      |
|----------|------|------|------|
| 2x3x1.5  | 15.6 | 194  | 323  |
| 2x3x1.5  | 15,6 | 194  | 323  |
| 2x4x1.5  | 17.9 | 239  | 400  |
| 2x4x1.5  | 17,9 | 239  | 400  |
| 3x2x1.5  | 14.9 | 196  | 321  |
| 3x2x1.5  | 14,9 | 196  | 321  |
| 3x3x1.5  | 16.6 | 250  | 405  |
| 3x3x1.5  | 16,6 | 250  | 405  |
| 3x4x1.5  | 19.1 | 311  | 505  |
| 3x4x1.5  | 19,1 | 311  | 505  |
| 4x2x1.5  | 16.3 | 242  | 392  |
| 4x2x1.5  | 16,3 | 242  | 392  |
| 4x3x1.5  | 18.2 | 312  | 499  |
| 4x3x1.5  | 18,2 | 312  | 499  |
| 4x4x1.5  | 21.0 | 389  | 625  |
| 4x4x1.5  | 21,0 | 389  | 625  |
| 5x2x1.5  | 17.8 | 289  | 465  |
| 5x2x1.5  | 17,8 | 289  | 465  |
| 5x3x1.5  | 20.1 | 374  | 596  |
| 5x3x1.5  | 20,1 | 374  | 596  |
| 5x4x1.5  | 23.1 | 468  | 747  |
| 5x4x1.5  | 23,1 | 468  | 747  |
| 7x2x1.5  | 19.4 | 372  | 587  |
| 7x2x1.5  | 19,4 | 372  | 587  |
| 7x3x1.5  | 21.9 | 487  | 760  |
| 7x3x1.5  | 21,9 | 487  | 760  |
| 7x4x1.5  | 25.3 | 612  | 960  |
| 7x4x1.5  | 25,3 | 612  | 960  |
| 10x2x1.5 | 24.9 | 517  | 830  |
| 10x2x1.5 | 24,9 | 517  | 830  |
| 10x3x1.5 | 28.1 | 682  | 1081 |
| 10x3x1.5 | 28,1 | 682  | 1081 |
| 12x2x1.5 | 25.8 | 596  | 943  |
| 12x2x1.5 | 25,8 | 596  | 943  |
| 16x2x1.5 | 28.8 | 759  | 1190 |
| 16x2x1.5 | 28,8 | 759  | 1190 |
| 19x2x1.5 | 30.4 | 883  | 1373 |
| 19x2x1.5 | 30,4 | 883  | 1373 |
| 24x2x1.5 | 35.9 | 1105 | 1735 |
| 24x2x1.5 | 35,9 | 1105 | 1735 |
| 27x2x1.5 | 36.6 | 1215 | 1893 |
| 27x2x1.5 | 36,6 | 1215 | 1893 |
| 37x2x1.5 | 41.7 | 1690 | 2572 |
| 37x2x1.5 | 41,7 | 1690 | 2572 |
| 2x2x2.5  | 15.8 | 204  | 329  |
| 2x2x2.5  | 15,8 | 204  | 329  |

|          |      |      |      |
|----------|------|------|------|
| 2x3x2.5  | 17.5 | 262  | 415  |
| 2x3x2.5  | 17,5 | 262  | 415  |
| 2x4x2.5  | 20.1 | 327  | 518  |
| 2x4x2.5  | 20,1 | 327  | 518  |
| 3x2x2.5  | 16.7 | 264  | 412  |
| 3x2x2.5  | 16,7 | 264  | 412  |
| 3x3x2.5  | 18.6 | 348  | 531  |
| 3x3x2.5  | 18,6 | 348  | 531  |
| 3x4x2.5  | 21.5 | 436  | 668  |
| 3x4x2.5  | 21,5 | 436  | 668  |
| 4x2x2.5  | 18.3 | 330  | 508  |
| 4x2x2.5  | 18,3 | 330  | 508  |
| 4x3x2.5  | 20.5 | 437  | 660  |
| 4x3x2.5  | 20,5 | 437  | 660  |
| 4x4x2.5  | 23.6 | 553  | 835  |
| 4x4x2.5  | 23,6 | 553  | 835  |
| 5x2x2.5  | 20.2 | 398  | 608  |
| 5x2x2.5  | 20,2 | 398  | 608  |
| 5x3x2.5  | 22.4 | 529  | 792  |
| 5x3x2.5  | 22,4 | 529  | 792  |
| 5x4x2.5  | 26.0 | 669  | 1004 |
| 5x4x2.5  | 26,0 | 669  | 1004 |
| 7x2x2.5  | 22.0 | 518  | 776  |
| 7x2x2.5  | 22,0 | 518  | 776  |
| 7x3x2.5  | 24.6 | 698  | 1025 |
| 7x3x2.5  | 24,6 | 698  | 1025 |
| 7x4x2.5  | 28.6 | 887  | 1306 |
| 7x4x2.5  | 28,6 | 887  | 1306 |
| 10x2x2.5 | 28.3 | 726  | 1104 |
| 10x2x2.5 | 28,3 | 726  | 1104 |
| 10x3x2.5 | 31.8 | 988  | 1470 |
| 10x3x2.5 | 31,8 | 988  | 1470 |
| 12x2x2.5 | 29.4 | 841  | 1261 |
| 12x2x2.5 | 29,4 | 841  | 1261 |
| 16x2x2.5 | 32.8 | 1087 | 1610 |
| 16x2x2.5 | 32,8 | 1087 | 1610 |
| 19x2x2.5 | 34.7 | 1270 | 1862 |
| 19x2x2.5 | 34,7 | 1270 | 1862 |
| 24x2x2.5 | 41.5 | 1668 | 2443 |
| 24x2x2.5 | 41,5 | 1668 | 2443 |
| 27x2x2.5 | 42.3 | 1839 | 2673 |
| 27x2x2.5 | 42,3 | 1839 | 2673 |
| 37x2x2.5 | 47.7 | 2435 | 3506 |
| 37x2x2.5 | 47,7 | 2435 | 3506 |

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