



## CABLE STRUCTURE

|                |   |
|----------------|---|
| Conductor      | Electrolytic, stranded, annealed copper wire IEC 60228 Class 5 (Class 2 and / or tinned on request) |
| Insulation     | Cross linked polyethylene compound (XLPE).  |
| Inner Covering | Halogen-free bedding compound.  |
| Outer Sheath   | Halogen-free, flame retardant, thermoplastic polyolefin based compound (SHF 1).                     |
| Colour         | Black or Grey or Red.   |
| FI             | With extruded bedding compound.   |

## STANDARDS & MAIN CHARACTERISTICS

|                             |  |
|-----------------------------|--|
| Construction                | IEC 60092 / 353                                      |
| Tests And Material          | IEC 60092 / 350-360                                  |
| Flame Retardant             | IEC 60332 / 1-2, IEC 60332 / 3-22 Cat A              |
| Halogen Content             | IEC 60754 / 1-2                                      |
| Smoke Emission              | IEC 61034 / 1-2 (DIN EN 50268 / 1-2)                 |
| Ozon Resistance             | IEC 60811 / 403                                      |
| Working Temperature         | -40°C / + 90°C                                       |
| Min. Bending Radius (fixed) | For cables D ≤ 25 mm 4xD<br>For cables D > 25 mm 6xD |
| Rated Voltage               | 0,6 / 1 kV   |
| Test Voltage                | 3,5 kV   |

Minimum recommended installation temperature -15°C

For core identification, diameter tolerances and current ratings etc. see technical information section

### Application

Used as fixed installation cables in various electromechanical and electronic equipments of marine vehicles, in most areas & on open deck in ships.



Halogen Free



Low Smoke Density



Flame Retardant



Rated Voltage



Test Voltage



Working Temperature



Bending Radius



No Corrosivity

| Cross Section (mm <sup>2</sup> ) | Nominal Overall Diameter (mm) | Approximate Weight (kg / km) | Min. Bending Radius Fixed Installed (mm) | Max Resistance of Conductors at 20°C (ohm / km) | Current Carrying Capacity at 45°C (A) |
|----------------------------------|-------------------------------|------------------------------|--|---|---------------------------------------|
| 2x1                              | 9,2                           | 112                          | 37                                       | 19,5  | 14                                    |
| 2x1,5                            | 9,6                           | 127                          | 39                                       | 13,3  | 18                                    |
| 2x2,5                            | 10,5                          | 160                          | 42                                       | 7,98  | 25                                    |
| 2x4                              | 11,7                          | 211                          | 47                                       | 4,95  | 33                                    |
| 2x6                              | 12,8                          | 268                          | 51                                       | 3,30  | 43                                    |
| 2x10                             | 15,2                          | 402                          | 61                                       | 1,91  | 60                                    |
| 2x16                             | 17,4                          | 562                          | 70                                       | 1,21  | 79                                    |
| 2x25                             | 22,0                          | 874                          | 88                                       | 0,78  | 104                                   |
| 2x35                             | 23,8                          | 1109                         | 143                                      | 0,554   | 129                                   |
| 2x50                             | 27,6                          | 1517                         | 166                                      | 0,386   | 166                                   |
| 2x70                             | 32,4                          | 2152                         | 194                                      | 0,272   | 204                                   |
| 2x95                             | 36,0                          | 2724                         | 216                                      | 0,206   | 243                                   |
| 2x120                            | 40,0                          | 3420                         | 240                                      | 0,161   | 282                                   |
| 2x150                            | 44,4                          | 4250                         | 266                                      | 0,129   | 324                                   |
| 2x185                            | 49,40                         | 5185                         | 296                                      | 0,106   | 367                                   |
| 2x240                            | 56,40                         | 6893                         | 338                                      | 0,0801  | 432                                   |
| 3x1                              | 9,7                           | 127                          | 39                                       | 19,5  | 12                                    |
| 3x1,5                            | 10,1                          | 145                          | 41                                       | 13,3  | 15                                    |
| 3x2,5                            | 11,3                          | 193                          | 45                                       | 7,98  | 21                                    |
| 3x4                              | 12,4                          | 253                          | 50                                       | 4,95  | 28                                    |
| 3x6                              | 13,6                          | 326                          | 54                                       | 3,30  | 35                                    |
| 3x10                             | 16,1                          | 494                          | 64                                       | 1,91  | 50                                    |
| 3x16                             | 18,5                          | 703                          | 74                                       | 1,21  | 66                                    |
| 3x25                             | 23,4                          | 1087                         | 140                                      | 0,78  | 86                                    |
| 3x35                             | 25,6                          | 1420                         | 154                                      | 0,554   | 107                                   |
| 3x50                             | 29,4                          | 1927                         | 176                                      | 0,386   | 137                                   |
| 3x70                             | 34,8                          | 2770                         | 209                                      | 0,272   | 168                                   |
| 3x95                             | 38,6                          | 3515                         | 232                                      | 0,206   | 201                                   |
| 3x120                            | 43,3                          | 4471                         | 260                                      | 0,161   | 233                                   |
| 3x150                            | 47,6                          | 5503                         | 286                                      | 0,129   | 268                                   |
| 3x185                            | 53,4                          | 6759                         | 320                                      | 0,106   | 303                                   |
| 3x240                            | 60,7                          | 8970                         | 364                                      | 0,0801  | 356                                   |



| Cross Section (mm <sup>2</sup> ) | Nominal Overall Diameter (mm) | Approximate Weight (kg / km) | Min. Bending Radius Fixed Installed (mm) | Max Resistance of Conductors at 20°C (ohm / km) | Current Carrying Capacity at 45°C (A) |
|----------------------------------|-------------------------------|------------------------------|--|---|---------------------------------------|
| 4x1                              | 10,4                          | 145                          | 42                                       | 19,5  | 12                                    |
| 4x1,5                            | 10,9                          | 168                          | 44                                       | 13,3  | 15                                    |
| 4x2,5                            | 12,2                          | 225                          | 49                                       | 7,98  | 21                                    |
| 4x4                              | 13,4                          | 300                          | 54                                       | 4,95  | 28                                    |
| 4x6                              | 14,9                          | 396                          | 60                                       | 3,30  | 35                                    |
| 4x10                             | 17,8                          | 610                          | 71                                       | 1,91  | 50                                    |
| 4x16                             | 20,4                          | 878                          | 82                                       | 1,21  | 66                                    |
| 4x25                             | 25,9                          | 1356                         | 104                                      | 0,78  | 86                                    |
| 4x35                             | 28,2                          | 1775                         | 170                                      | 0,554   | 107                                   |
| 4x50                             | 33,2                          | 2474                         | 199                                      | 0,386   | 137                                   |
| 4x70                             | 38,6                          | 3498                         | 232                                      | 0,272   | 168                                   |
| 4x95                             | 43,1                          | 4476                         | 259                                      | 0,206   | 201                                   |
| 4x120                            | 48,1                          | 5664                         | 289                                      | 0,161   | 233                                   |
| 4x150                            | 53,3                          | 7030                         | 320                                      | 0,129   | 268                                   |
| 4x185                            | 59,2                          | 8542                         | 355                                      | 0,106   | 303                                   |
| 4x240                            | 67,9                          | 11452                        | 407                                      | 0,0801  | 356                                   |
| 5x1                              | 11,4                          | 173                          | 46                                       | 19,5  | 10                                    |
| 5x1,5                            | 11,9                          | 201                          | 48                                       | 13,3  | 13                                    |
| 5x2,5                            | 13,2                          | 266                          | 53                                       | 7,98  | 17                                    |
| 5x4                              | 14,7                          | 362                          | 59                                       | 4,95  | 23                                    |
| 5x6                              | 16,2                          | 474                          | 65                                       | 3,30  | 29                                    |
| 5x10                             | 19,6                          | 744                          | 78                                       | 1,91  | 42                                    |
| 5x16                             | 22,5                          | 1067                         | 90                                       | 1,21  | 54                                    |
| 5x25                             | 28,6                          | 1650                         | 114                                      | 0,78  | 71                                    |
| 5x35                             | 31,7                          | 2202                         | 190                                      | 0,554   | 89                                    |
| 5x50                             | 36,7                          | 3020                         | 220                                      | 0,386   | 114                                   |
| 5x70                             | 43,2                          | 4322                         | 259                                      | 0,272   | 140                                   |
| 7x1,5                            | 12,7                          | 240                          | 51                                       | 13,3  | 11                                    |
| 7x2,5                            | 14,3                          | 328                          | 57                                       | 7,98  | 16                                    |
| 10x1,5                           | 15,8                          | 343                          | 63                                       | 13,3  | 10                                    |
| 12x1,5                           | 16,3                          | 378                          | 65                                       | 13,3  | 10                                    |
| 14x1,5                           | 17,3                          | 433                          | 69                                       | 13,3  | 9                                     |
| 19x1,5                           | 18,9                          | 521                          | 76                                       | 13,3  | 8                                     |
| 24x1,5                           | 22,2                          | 667                          | 89                                       | 13,3  | 8                                     |