



**Properties:**

|                        |         |
|------------------------|---------|
| Temperature rating DNV | +90°C   |
| Temperature rating UL  | +105°   |
| Voltage Rating Uo/U    | 0,6/1kV |

**Standards:**

|                 |                        |
|-----------------|------------------------|
| Conductor       | IEC 60228,5 / UL 1581  |
| Construction    | IEC 60092-353 / UL 758 |
| Halogen free    | IEC 60754-1, -2        |
| Smoke density   | IEC 61034-1, -2        |
| Flame retardant | IEC 60332-1-2 / FT2    |

**Application:**

DNV-GL-approved single insulated 1kV cable for use in shipboard and offshore distribution panels and switchboards. TEXILine HF90 has a smooth surface and flexible tinned Cu class 5 conductor that provides excellent installation properties. Available in 12 different standard colours. Others on request.

**Approval**

|                                 |                      |
|---------------------------------|----------------------|
| DNV TAE000026Z                  |                      |
| CE acc 2014/35/EU               |                      |
| UL 30083                        | 1-240mm <sup>2</sup> |
| *) or UL 3992                   | 1-6mm <sup>2</sup>   |
| *) depending on production date |                      |

**Construction**

|  |   |
|--|---|
| Conductor                                  | Class 5 flexible tinned conductor   |
| Insulation                                 | Halogen free, cross-linked and flame retardant special compound   |
| Marking, Ink Print                         | Amokabel TEXILine HF90 <size> IEC 60092-353 1kV DNVGL -<br>E164256 "UR logo" AWM <UL style> 105C "cUR logo" AWM I A 105C 1000V FT2 YYWW |
| Minimum bending radius, fixed installation | OD x 4  |
| Colour                                     | Customer specified  |

| Conductor Cross-section | Conductor Cross-section | Number of wires approx. | Wire diameter | Nominal outer diameter | Current rating continuous load @45°C ambient DNVGL-RU-SHIP Pt.4 Ch.8 Sec.2 table 6 | Max conductor resistance @20°C, tinned Cu | Total weight |
|-------------------------|-------------------------|-------------------------|---------------|------------------------|--|---|--------------|
| [mm <sup>2</sup> ]      | [AWG]                   | [pcs]                   | [mm]          | [mm]                   | [A]  | [Ω/km]                                    | [kg/km]      |
| 1                       | 18                      | 32                      | <0,21         | 2,7                    | 18   | 20,0                                      | 15           |
| 1,5                     | 16                      | 32                      | <0,26         | 2,9                    | 23   | 13,7                                      | 20           |
| 2,5                     | 14                      | 54                      | <0,26         | 3,4                    | 30   | 8,21                                      | 30           |
| 4                       | 12                      | 50                      | <0,31         | 3,9                    | 40   | 5,09                                      | 45           |
| 6                       | 10                      | 75                      | <0,31         | 4,5                    | 52   | 3,39                                      | 65           |
| 10                      | 8                       | 75                      | <0,41         | 5,4                    | 72   | 1,95                                      | 105          |
| 16                      | 6                       | 118                     | <0,41         | 6,4                    | 96   | 1,24                                      | 170          |
| 25                      | 4                       | 189                     | <0,41         | 8,1                    | 127  | 0,795                                     | 260          |
| 35                      | 2                       | 266                     | <0,41         | 9,6                    | 157  | 0,565                                     | 345          |
| 50                      | 1                       | 378                     | <0,41         | 11,4                   | 196  | 0,393                                     | 530          |
| 70                      | 2/0                     | 539                     | <0,41         | 13,4                   | 242  | 0,277                                     | 740          |
| 95                      | 3/0                     | 684                     | <0,41         | 15,3                   | 293  | 0,210                                     | 990          |
| 120                     | 4/0                     | 570                     | <0,51         | 16,9                   | 339  | 0,164                                     | 1250         |
| 150                     | MCM300                  | 703                     | <0,51         | 19,1                   | 389  | 0,132                                     | 1560         |
| 185                     | MCM350                  | 851                     | <0,51         | 21,3                   | 444  | 0,108                                     | 1930         |
| 240                     | MCM450                  | 1072                    | <0,51         | 25,8                   | 522  | 0,0817                                    | 2510         |

Current rating correction factors for ambient temp other than 45°C per DNVGL-RU-SHIP Pt.4 Ch.8 Sec.2 table 10

