



TEXILINE HF90 (CU)



TEXILine HF90 is a DNV-approved, flexible single-insulated hook-up wire designed for distribution boards and panels with a rated voltage of up to 1 kV. It is engineered to deliver reliable performance and long service life in demanding marine and industrial environments.

The flexible class 5 tinned copper conductor ensures excellent bendability and easy installation, even in confined spaces. Its smooth insulation surface further facilitates pulling and handling during assembly in electrical cabinets and control panels.

DNV-approved in sizes ranging from 1.0 mm² to 240 mm², TEXILine HF90 provides a versatile solution for both low- and high-power applications. It is well suited for professional installations where safety, quality and long-term reliability are essential.

APPLICATION

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

STANDARDS

Conductor

IEC 60228 Class 5
UL1581

Construction

IEC 60092-353
UL758

Halogen free

IEC 60754-1
IEC 60754-2

STANDARDS

Smoke density

IEC 61034-1
IEC 61034-2

Flame retardant

IEC 60332-1
IEC 60332-2

APPROVAL



CONSTRUCTION

Bending radius - Final mount fixed

4 xOD

Color

Customer specified

Conductor

Class 5 flexible bare conductor

Insulation

Halogen free, cross-linked and flame retardant special compound

Labeling example

Amokabel TEXILine HF90 <size> IEC 60092-353 1kV DNV - E164256
"UR logo" AWM 30083 105C "cUR logo" AWM I A 105C 1000V FT2
YYWW

PROPERTIES

Temperature rating (DNV)

90 °C

Temperature rating (UL)

150 °C

AC Voltage rating U₀/U

0,6/1kV



Name	Cross section [mm ²]	Number of strands [pcs]	Strand diameter [mm]	Outer diameter [mm]	Installation Current in open air, ambient temperature 45°C [A]	Max resistance of conductor @20°C [Ω/km]	Total weight [kg/km]
1 / AWG18	1	32	0.21	2.7	18	19.5	15
1,5 / AWG16	1.5	27	0.26	2.9	23	13.3	20
2,5 / AWG14	2.5	45	0.26	3.6	30	7.98	30
4 / AWG12	4	50	0.31	3.9	40	4.95	45
6 / AWG10	6	75	0.31	4.5	52	3.3	65
10 / AWG8	10	75	0.41	5.4	72	1.91	105
16 / AWG6	16	118	0.41	6.4	96	1.21	170
25 / AWG4	25	189	0.41	8	127	0.78	260
35 / AWG2	35	266	0.41	9.3	157	0.554	345
50 / AWG1	50	378	0.41	10.7	196	0.386	530
70 / AWG2/0	70	539	0.41	13.4	242	0.272	740
95 / AWG3/0	95	469	0.51	14.5	293	0.206	990
120 / AWG4/0	120	570	0.51	16.9	339	0.161	1250
150 / AWG MCM300	150	703	0.51	19	389	0.129	1560
185 / AWG MCM350	185	825	0.51	20.9	444	0.106	1930
240 / AWG MCM450	240	1806	0.51	24.3	522	0.0801	2510

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