



Profibus DP Marin SHF1

LSZH, UV

1 pair 0.35 mm² (AWG 22/7)

DNV-GL

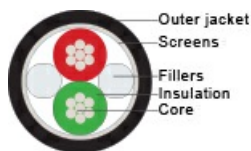
Application

Shielded BUS-cable, IEC 61158-2, certified for use in ship- and offshore installations. The cable is low smoke and zero halogen, oil- and UV-resistant, AWG 22/7 tinned Cu-conductor, foam PE insulation, filler, AL/Mylar and tinned CU-braid screen, outer jacket SHF1.



Construction

Conductor	0.35 [mm ²] Stranded Tinned Cu 7 x 0,254 [mm] AWG 22/7 (0.35mm ²)
Screen	Collective Al/Mylar
Insulation	Foamskin PE Ø = 2,55 ± 0,05 [mm]
Colour code	Red, green
Filler	PP
Screen	Tinned Cu-braid > 80 [% coverage]
Jacket	Black SHF1 (other colours on request)
O.D.	8 [mm]
Weight	80 [kg/km]
Jacket marking	NEK Kabel - Profibus DP Marin - 1x2xAWG22/7 SHF1 - DNV-GL - IEC 60332-3-22 - batch no - <****meter> - <dd/mm/yyyy>



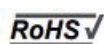
Specifications

Operating temperature	-40 - +80 [°C]
Temperature @ installation	-20 - +60 [°C]
Operating voltage	100 [V]
Test Voltage	1 [kV-DC]
Conductor resistance	≤55 [Ω/km]
Insulation resistance	≥1 [GΩ x km]
Capacitance	30 [pF/m] at 1kHz
Impedance	150 ± 15 [Ω] at 3-20MHz 185 ± 18,5 [Ω] at 38,4MHz 250 ± 25 [Ω] at 9,6MHz
Attenuation	≤ 45[dB/m] at 16 MHz ≤ 22[dB/m] at 4 MHz ≤ 5[dB/m] at 38,4 kHz ≤ 3[dB/m] at 9,6KHz
Min. bending radius flexible	20 [x outer diam]
Min. bending radius installed	10 [x outer diam]



Norms

Halogenfree, max content corrosive and toxic gases	IEC 60754-1, 2
Material properties, insulation and sheath	SHF1
Design and testing standards	IEC 61158-2 IEC 60092-360
Flame retardant	IEC 60332-1
Fire retardant	IEC 60332-3-22 Cat.A
Oil and fuel, hydrocarbons resistant	IEC 60811-2-1 IRM 902 23°C / 7 days, 70°C / 4h
Smoke emission	IEC 61034-2
Field bus specifications	IEC 61784 - 1 - 2 IEC 61158 ed. 6
UV-resistant	UL 1581 (300H)
Certification	DNV-GL



Part No.	Black: 1091092 Blue: 3010005 Purple: 3010006
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Updated

Date	Rev.	Description
5.4.2019	1	DNV-GL Approved
15.4.2019	2	Additional information
24.05.2019	3	Adding part numbers
24.08.2020	4	Temp.range