

Profibus DP Marin SHF1

LSZH, UV, EMC

1 pair 0.35 mm² (AWG 22/7)

DNV

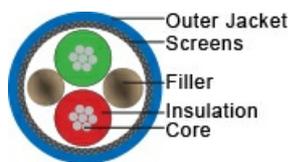
Application

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. The cable has increased electromagnetic compatibility (EMC) requirements.



Construction

Conductor	Stranded tinned Cu 7 x 0,254 [mm] AWG 22/7 (0.35mm ²)
Insulation	Foamskin PE Ø=2,55±0,05 [mm]
Screen	Collective Al/Mylar
Colour code	Red, green
Filler	PP
Screen	Al/Mylar 100 [% coverage]
Screen 2	Tinned Cu braid 60 [% optical coverage]
Jacket	SHF1
O.D.	7,8 [mm]
Weight	80 [kg/km]
Jacket marking	NEK Kabel - Profibus DP Marin - 1x2xAWG22/7 SHF1 - DNV - IEC 60332-3-22 - batch no - <****meter> - <dd/mm/yyyy>



Specifications

Operating temperature normal	-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
Attenuation	≤45dB/km @ 16MHz ≤22dB/km @ 4MHz ≤5dB/km @ 38.4KHz ≤3dB/km @ 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 & IEC 60754-2
Material properties, insulation and sheath	IEC 60092-360
Design and testing standards	IEC 61158-2 IEC 60092-360
Flame resistance	IEC 60332-3-22 Cat.A
Flame retardant	IEC 60332-1
Smoke emission	IEC 61034-2
Field bus specifications	IEC 61784 - 1 - 2 IEC 61158 ed. 6
UV-resistant	UL 1581 (300H)
Certification	DNV



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