

Profibus DP Marin SHF2

1 x 2 x 0.35 mm²

Flexible

SHF2

DNV

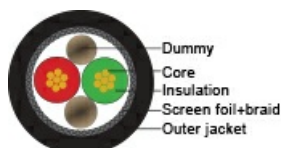
Application

Profibus data cable, for use in ship, offshore and industrial automation systems. Signal transmission from separate sensors to control unit. The cable is halogen-free, flame-retardant, oil-resistant and UV-resistant.



Construction

Conductor	Stranded bare or tinned Cu AWG 22/7 (0.35mm ² , 7x0,25mm)
Screen	Al-polyester + Al tape
Insulation	Foamskin PE 2.75 [mm]
No. of pairs	1
Screen 2	Tinned Cu braid > 80 [% optical coverage]
Jacket	Black SHF2
O.D.	8,4±0,5 [mm]
Weight	95 [kg/km]
Jacket marking	NEK KABEL - PROFIBUS DP MARIN 1X0,35mm ² SHF2 – 100V-LSOH – DNV



Specifications

Operating temperature normal	-40 – +90 [°C]
Loop resistance screen-conductor	0.11 [[Ω/m]]
Loop Resistance / Inductance Ratio	< 15 (nom. 8.5) [μH/Ω]
Inductance	0.9 [μH/m]
Characteristic impedance	@ 3-20 MHz: 150 ± 15Ω @ 38,4 kHz: 185±18,5Ω @ 9,6 kHz: 250 ± 25Ω
Conductor resistance	< 55 [Ω/km]
Insulation resistance	≥ 1 [GΩ x km]
Test voltage	1000 [kV-DC 1 min.]
Capacitance	< 30 (nom. 28) [pF/m] at 800 - 1000 Hz
Min. bending radius	20 [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 (359)
Flame resistance	IEC 60332-3-22
Flame retardant	IEC 60332-1
Toxic gases max.	EN 50305 9.2
Ozone resistant	DIN VDE 0472 part 805 B 1483
Smoke emission	IEC 61034-1 & IEC 61034-2
Field bus specifications	IEC 61158-2 ed. 1
UV-resistant	ASTM G 154
Certification	DNV

Part No.	Black DNV:	3010002
	Blue DNV:	3010003
	Violett DNV:	3010004
	Black Tinned DNV:	3010009



Attenuation nominal, max 105%

Frequency MHz	Attenuation dB/100m
16	<4.5
4	<2.2
0,038	<0.5
0.0096	<0.3

Updated

Date	Rev.	Description
16.09.2016	1	ABS approved
19.01.2017	2	Additional technical data
24.05.2019	3	Adding part numbers