

Profibus DP Marin SHF2 MUD

Flexible Type A

1 pair

SHF2, UV

DNV-GL, ABS

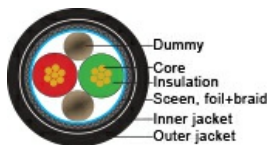
Application

Profibus data cable for communication systems and closed loop marine control systems for instruments and remote sensors, IEC 61158-2. MUD-resistant jacket.



Construction

Conductor	Stranded Plain Cu AWG 22/7 (0.35mm ²)
Insulation	Foamskin PE 2.75 [mm]
No. of pairs	1
Colour code	Green and red
Screen	Al-polyester-Al-tape
Screen 2	Tinned Cu braid > 80 [% optical coverage]
Inner jacket	SHF1
Outer Jacket	Black MUD resistant SHF2
O.D.	10 [mm]
Weight	110 [kg/km]
Jacket marking	NEK KABEL PROFIBUS DP MARIN SHF2-100V-MUD DNV-GL, ABS



Specifications

Operating temperature	-40 – +90 [°C]
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 [V-DC]
Capacitance	30 [pF/m]
Min. bending radius	10 [x outer diam]
Min. bending radius flexible	20 [x outer diam]

Norms

Halogenfree, max content corrosive and toxic gases	IEC 60754-1, 2
Material properties, insulation and sheath	IEC 60092-360 (359)
Design and testing standards	IEC 60092-350
Flame retardant	IEC 60332-1
Toxic gases max.	EN 50305 9.2
Fire retardant	IEC 60332-3-22
Ozone resistant	DIN VDE 0472 part 805 B 1483
Oil and fuel, hydrocarbons resistant	IEC 60502 DIN VDE 0472 del 803
Smoke emission	IEC 61034-1, -2
Field bus specifications	IEC 61158-2 ed. 1
MUD resistant	NEK TS 606
UV-resistant	ASTM G 154
Certification	DNV-GL, ABS
Part No.	1 pair: 1091039 2 pairs: 1091048



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
05.12.2019	1	Inner and outer jacket