

Profibus DP Marin ARM MUD

Flexible Type A
Steel wire braid armour
SHF2, UV

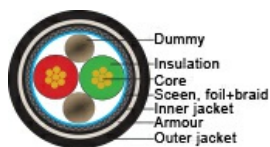
Application

Armoured Profibus data cable for communication systems and closed loop marine control systems. Electrical data identic with Profibus DP Marin which is approved by DNV-GL and ABS.



Construction

Conductor	Stranded Plain Cu AWG 22 (0.35mm ²)
Insulation	Foamskin PE 2.75 [mm]
No. of pairs	1
Sheath	Al - polyester tape
Screen	Tinned Cu-braid > 80 [% optical coverage]
Inner jacket	SHF2
Armour	Galvanised steel wire braid
Jacket	Black SHF2 MUD
O.D.	14.5 [mm]
Weight	230 [kg/km]
Jacket marking	NEK KABEL PROFIBUS DP MARIN SHF2- 100V-MUD-DNV.GL, ABS



Specifications

Operating temperature	-40 – +90 [°C]
Operating voltage	100
Characteristic impedance	3 – 20 MHz 150 ± 15 Ω
Conductor resistance	55 [Ω/km]
Insulation resistance	>1 [GΩ x km]
Test voltage	1 [kV]
Capacitance	30 [pF/m @ 800-1000MHz]
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 NES 713
Material properties, insulation and sheath	IEC 60092-360 (359)
Flame retardant	1023
Ozone resistant	1483
Smoke emission	IEC 61034-1, -2
MUD resistant	NEK TS 606 F5
UV-resistant	ASTM G 154 ASTM D 4587
Part No.	1091035



Attenuation nominal, max 105%

Frequency MHz	Attenuation dB/100m
16	4.5
4	2.2
0.0384	0.5
0.0096	0.3