



## Profibus DP Marin ARM SHF2

Flexible type A

1 pair 0.35 mm<sup>2</sup> (AWG 22/7)

SHF2, UV

DNV

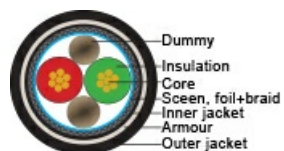
### Application

Armoured Profibus data cable for industrial field bus systems of automation and communication, designed for ship and offshore use, for fixed applications such as process control and automation.



### Construction

Conductor	Stranded bare or tinned Cu 7 x 0,254 [mm] AWG 22/7 (0.35 mm <sup>2</sup> )
Screen	Al/Mylar
Insulation	Foamskin PE Ø = 2.55 [mm]
No. of pairs	1
Colour code	Red, green
Filler	PP
Screen	Tinned Cu-braid
Inner jacket	SHF1 black
Armour	Galvanised steel wire braid ≥65% [% optical cover]
Jacket	Black SHF2
O.D.	11.0 [mm]
Weight	190 [kg/km]
Jacket marking	NEK KABEL – PROFIBUS DP MARIN Armoured – 1x2x22AWG – SHF2 – IEC 60332322 – ****M – DD/MM/YY





## Specifications

Operating temperature normal	-40 – +80 [°C]
Temperature @ installation	-20 - +60 [°C]
Test Voltage	DC 1kV/1min, no break down
Characteristic impedance	270 ± 27Ω @ 9,6kHz 185 ± 18.5Ω @ 38.4kHz 150 ± 15Ω @ 3-20MHz
Conductor resistance	≤ 55 [Ω/km]
Insulation resistance	≤ 1 [GΩ x km]
Capacitance	30 [pF/m] at 800 - 1000 Hz
Velocity factor	78 [%]
Attenuation	≤ 2.5dB/km @ 9.6kHz ≤ 3.8dB/km @ 38.4kHz ≤ 11.0dB/km @ 200kHz ≤ 22.0dB/km @ 4MHz ≤ 42.0dB/km @ 16MHz
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 & IEC 60754-2 NES 713
Material properties, insulation and sheath	IEC 60092-360 3582
Flame resistance	IEC 60332-3-22 Cat.A
Flame retardant	IEC 60332-1-2 3024
Smoke emission	IEC 61034-2
UV-resistant	UL 1581 (300H) ASTM D 4587
Certification	DNV

Prod.no.	1087370- (Steel wire armour) 1091063- (Cu wire armour) 3010007 (tinned Cu)
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Alternative armour available, tinned copper braid or bronze braid.  
Also available with MUD resistant jacket, 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

## Updated

Date	Rev.	Description
05.04.2019	1	DNV-GL Approved
13.06.2019	2	Added info.