

# Profinet B, Industrial BUS SHF2

**100 Ω BUS-cable**  
**2 pair Quad, 0,35 mm<sup>2</sup>**  
**SHF2 MUD**  
**DNV**

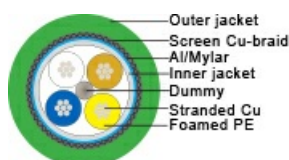
## Application

Double screened. Data transmission in industrial environments as well as in ship- offshore installations. Designed for EMC installations. Flexible cable with SHF2 MUD resistant jacket.



## Construction

Conductor	0.35 [mm <sup>2</sup> ] stranded tinned Cu AWG 22/7
Insulation	PE Ø = 1.55 ± 0.05 [mm] 2 pairs quad
Colour code	White, blue, yellow, orange
Filler	Optional
Inner jacket	LSZH compound
Screen	Al/Mylar 100 [% cover]
Screen 2	Tinned Cu-braid ≥ 85 [% cover]
Jacket	Green SHF2
O.D.	6.5 ± 0.5 [mm]
Weight	68 [kg/km]
Jacket marking	NEK Kabel – Profinet B MARIN Cable 4x22AWG SHF2 – DNV – IEC 60332-3-22 – batch no – DD/MM/YY – ****m



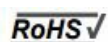
## Specifications

Operating temperature normal	-40 - +80 [°C]
Temperature @ installation	20 + 60 [°C]
Dielectric strength	DC 1,5kV for 1min.
Characteristic impedance	100 ± 15 Ω at 1 - 100MHz
Conductor resistance	≤ 59.4 [Ω/km]



## 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 TIA/EIA 568 C.2
Flame resistance	IEC 60332-3-22 Cat.A
Flame retardant	IEC 60332-1-2
Smoke emission	IEC 61034-2 , ≥ 60 %
Oil and fuel resistant	IEC 60811-2-1 IRM 902 23°C / 7 days, 70°C / 4h
UV-resistant	UL 1581 (300H)
Certification	DNV



Part No.	2041001
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Frequency (MHz)	Attenuation (dB/100m)	NEXT (dB)
1	2.4	65.3
4	4.9	56.3
8	5.8	51.8
10	7.0	50.3
16	9.8	47.2
20	11.2	45.8
25	12.5	44.3
31.25	14.0	42.9
62.5	20.4	38.4
100	26.4	35.3