



RS 485 Industrial BUS ARM SHF1

1, 2 or 4-pair quad,
AWG 22/7, Flexible
Armoured
SHF1, UV
120 Ω
DNV

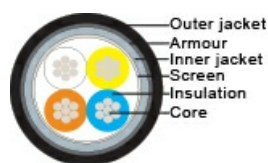
Application

120 Ω Armoured BUS cable for industrial- and offshore environments. Tape and braided copper screens.
Data transmission in industrial environments.



Construction

Conductor	0.35 [mm ²] stranded tinned Cu AWG 22/7 (7 x 0.254 mm)
Insulation	Foam PE Ø = 1.75 [mm]
Colour code	White, yellow, blue and orange
Screen	Al/Mylar
Screen 2	Tinned Cu braid ≥ 85 [% optical coverage]
Inner jacket	SHF1 Ø = 6.6 ± 0.3 [mm]
Armour alt.1	Galvanised steel wire braid 0.3 [mm]
Armour alt.2	Tinned Cu-braid 0.3 [mm]
Outer Jacket	Black or green SHF1 thicknes app. 1.00 [mm]
O.D.	9.8 ± 0.50 [mm]
Jacket marking	NEK Kabel AS – Industrial cable – BUS RS485 n x 2 x AWG22/7 – GSWB – SHF1 – DNV – IEC 60332-3-22 – batch.no – yy/mm/dd – ****m



Specifications

Operating temperature normal	-40 – +80 [°C]
Temperature @ installation	-20 – +60 [°C]
Dielectric strength	DC 2kV for 1min.
Characteristic impedance	120 ± 15 [Ω @ 1MHz]
Conductor resistance	≤ 55 [Ω/km]
Resistance unbalance	≤ 5 [%]
Insulation resistance	≥ 1 [GΩ x km]
Attenuation	≤ 20.0 [dB/km @ 1MHz]
Min. bending radius installed	8 [x outer diam]
Min. bending radius @ installation	15 [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)
Design and testing standards	IEC 61158-2
Flame resistance	IEC 60332-3-22 Cat.A
Flame retardant	IEC 60332-1-2
Smoke emission	IEC 61034-2
Oil and fuel resistant	IEC 60811-2-1 IRM 902 23°C / 7 days, 70°C / 4h
UV-resistant	UL 1581 (300H)
Certification	DNV



Pairs	Outer diam. [mm]	Weight [kg/km]	Art. no.
1 x 2 x AWG22/7 GSWB	9.8 ± 0.5		2040006
2 x 2 x AWG22/7 GSWB	9.8 ± 0.5		2040005
4 x 2 x AWG22/7 GSWB	10.3 ± 0.5	124	2040003
1 x 2 x AWG22/7 TCWB	9.8 ± 0.5		2040025
2 x 2 x AWG22/7 TCWB	9.8 ± 0.5		2040026
4 x 2 x AWG22/7 TCWB	10.3 ± 0.5		2040027

Updated

Date	Rev.	Description
08.02.2022	0	Created