



# CAN Bus Marin 2 pair, SHF1

Flexible, 0.75 mm<sup>2</sup>

2 pair Quad

SHF1, UV

DNV

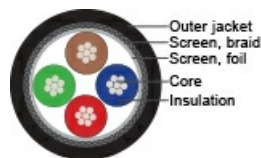
## Application

Designed for CAN-Bus system for ships, according to the NMEA 2000 standard for transferring signals at 250 kbit/s. The cable, with its high anti-interference ability and outstanding reliability is well suited for use in ships- and offshore installations.



## Construction

Conductor	0.75 [mm <sup>2</sup> ] stranded tinned Cu 24 x 0.20 [mm]
Insulation	Foam PE Ø = 2.95 ± 0.05 [mm]
No. of pairs	2 , laid up as a quad
Colour code	1. green-blue, 2. red-brown
Screen	AL/Mylar
Screen 2	Tinned Cu-braid ≥ 80 % [optical cover]
Jacket	Black SHF1
O.D.	10.5 [mm]
Weight	133 [kg/km]
Jacket marking	NEK Kabel – Canbus Marin 2x2x0.75mm <sup>2</sup> SHF1 – DNV – IEC 60332-3-22 – *****M – DD/MM/YY



## Specifications

Operating temperature normal	-40 – +80 [°C]
Temperature @ installation	-20 – +60 [°C]
Dielectric strength	DC 1kV for 1min.
Characteristic impedance	120 ± 12 [Ω @ 1MHz]
Conductor DC resistance	≤ 26 [Ω/km]
Insulation resistance	≥ 1 [GΩ x km]
Capacitance	40 [pF/m @ 800-1000Hz]
Attenuation	≤ 13.2 [dB/km @1MHz]
Transmission speed	- 500 kbit/s - 100 m (328 ft) - 250 kbit/s - 250 m (820 ft)
Min. bending radius flexible	15 [x outer diam]
Min. bending radius installed	10 [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
Flame resistance	IEC 60332-3-22
Flame retardant	IEC 60332-1-2
Cold bend and impact	CSA C22.2 (-50°C)
Smoke emission	IEC 61034-2 ≥ 60 %
Oil and fuel resistant	IRM 902 4h @ 70°C
UV-resistant	UL 1581 section 1200 (300h)
Certification	DNV



Prod.no	1091091
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## Updated

Date	Rev.	Description
05.04.2019	1	DNV-GL Approval
15.04.2019	2	Additional information
07.06.2019	3	Additional information
19.06.2019	4	UV information
24.08.2020	5	Attenuation