

# CAN Bus Marin 2 pair, SHF2

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

2-pair quad

SHF2, UV

DNV

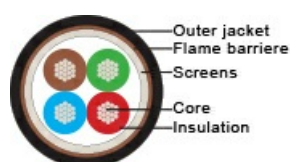
## Application

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 antiinterference ability and outstanding reliability is well suited for use in ships- and offshore installations.



## Construction

Conductor	0.75 [mm <sup>2</sup> ] Flexible tinned Cu 24 x 0.20 [mm]
Screen	LSZH thermoplastic compound
Insulation	Foamskin PE 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 coverage]
Jacket	Black or purple SHF2
O.D.	10.5 [mm]
Weight	133 [kg/km]
Jacket marking	NEK Kabel – Canbus Marin 2x2x0.75mm <sup>2</sup> SHF2 – DNV – IEC 60332-3-22 – *****METERS – DD/MM/YY

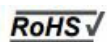


## Specifications

Operating temperature normal	-40 – +90 [°C]
Temperature @ installation	-20 – +60 [°C]
Dielectric strength	DC 1kV for 1min.
Characteristic impedance	120 ± 12 [Ω @ 1 MHz]
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 EN 50305 9.2
Material properties, insulation and sheath	IEC 60092-360
Flame resistance	IEC 60332-3-22
Flame retardant	IEC 60332-1-2
Ozone resistant	DIN VDE 0472 part 805B
Smoke emission	IEC 61034-2 $\geq 60$ %
Oil and fuel resistant	IRM 902 100°C x 24h
Field bus specifications	IEC 61158-2 ed. 1
UV-resistant	UL 1581 section 1200
Certification	DNV
Prod.no.	2 pairs black: 1087381 2 pairs purple: 1091046



## Updated

Date	Rev.	Description
23.10.2020	1	RMRS Certification