

CAN Bus Marin 1 pair, SHF2, 90°C

Flexible

0,75 mm²

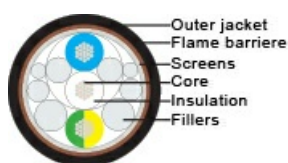
DNV, ABS

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	Flexible Plain Cu 0.75mm ² (24 x 0.20 mm)
Dielectricum	Foamed PE Ø = 2,9 ± 0,05 [mm]
Protective conductor	Stranded tinned Cu 0,75 [mm ²] HDPE, colour Y/G (Ø = 2,95 ± 0,05)
No. of pairs	1
Colour code	white-blue
Individual Screen pairs	Al/Mylar tape 100% [coverage]
Fire resistant barrier	Fire barriere tape
Overall Screen	Tinned Cu-braid > 80 [% optical cover]
Jacket	Black or purple SHF2
O.D.	11,1 ± 0,5 [mm]
Weight	200 [kg/km]
Jacket marking	NEK KABEL AS - CANBUS MARIN 1x2x0,75mm ² + 0.75mm ² - SHF2 - 60332-3-22 - ****m





Specifications

Operating temperature normal	-40 – +90 [°C]
Temperature @ installation	-20 – +60 [°C]
Operating voltage	100 [V]
Test Voltage	1 [kV-DC] for 1 min.
Characteristic impedance	120 ± 12 [Ω @ 1MHz]
Conductor resistance	≤ 26 [Ω/km]
Insulation resistance	≥ 1 [GΩ x km]
Capacitance	40 [pF/m @ 800-1000MHz]
Attenuation	≤ 25 [dB/km @ 1MHz]
Transmission speed	- 500 kbit/s - 100 m (328 ft) - 250 kbit/s - 250 m (820 ft)
Min. bending radius flexible	20 [x outer diam]
Min. bending radius installed	10 [x outer diam]

Norms

Halogenfree, max content corrosive and toxic gases	IEC 60754-1 and IEC 60754-2 NES 713
Material properties, insulation and sheath	IEC 60092-360
Design and testing standards	IEC 61156-5
Flame resistance	IEC 60332-3-22
Flame retardant	IEC 60332-1 3024
Sheath	3453
Ozone resistant	DIN VDE 0472 part 805B
Smoke emission	IEC 61034-2 (≥ 60%)
Oil and fuel resistant	IRM 902 100°C x 24h
Field bus specifications	IEC 61158-2 ed. 1
UV-resistant	UL 1581 (300H)
Certification	DNV , ABS
Part No.	1087380, black 1091044, purple



Also available 2pairs: Part no. 2 pair black: 1087381 and purple: 1091046
Also available with MUD resistant jacket, acc. to NEK TS 606,
One pair: Part no. 1087382, 2 pair Part no. 1087383



Updated

Date	Rev.	Description
05.04.2019	1	DNV-GL Approved
04.06.2019	2	Added information Weight and diam.