

CAN Bus Marin 2 pair, SHF2

Flexible, 0.75 mm²

2-pair quad

DNV / RS

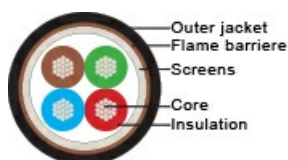
Application

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	Flexible Plain Cu 0.75mm ² (24 x 0.20 mm)
Screen	LSZH thermoplastic compound
Insulation	Foamskin PE 2.4 [mm]
No. of pairs	2 , laid up as a quad
Colour code	1. green-blue, 2. red-brown
Screen	Al-polyester-Al-tape
Screen 2	Tinned Cu braid ≥85 [% optical coverage]
Fire resistant barrier	Flame barriere tape
Jacket	Black or purple SHF2
O.D.	10.5 [mm]
Weight	170 [kg/km]
Jacket marking	NEK CANBUS MARIN 2 x 2 x 0.75 mm ² SHF2 DD/MM/YY, metric marking



Specifications

Operating temperature normal	-40 – +90 [°C]
Operating voltage	100 [V]
Test Voltage	1.5 [kV AC]
Capacitance betw. conductors	1 MHz: 13.2 dB/km (pF/100m)
Characteristic Impedance @ 1MHz	120 ± 18 [Ω]
Conductor resistance	<26 [Ω/km]
Insulation resistance	1 [GΩ x km]
Test voltage	1.5 [kV-AC]
Capacitance	40 [pF/m]
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 EN 50305 9.2
Material properties, insulation and sheath	IEC 60092-360 (359)
Design and testing standards	IEC 61156-5
Flame resistance	IEC 60332-3-22 Cat.A
Flame retardant	IEC 60332-1
Ozone resistant	DIN VDE 0472 part 805B
Smoke emission	IEC 61034-1 and IEC 61034-2
Field bus specifications	IEC 61158-2 ed. 1
Certification	DNV / RS

Part No.	2 pairs black: 1087381 2 pairs purple: 1091046
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Alternative: CAN Bus Marin 2 pair, tinned conductors, without inner sheath: Part no. 1087386
Canbus Marin is available with MUD resistant jacket.
Part no. 1 pair: 1087382, 2 pairs: 1087383

Updated

Date	Rev.	Description
23.10.2020	1	RMRS Certification