

CAN BUS Marin 1 pair Arctic Grade

Flexible 0.75mm²
Bare Cu-conductor
SHF2
RMRS

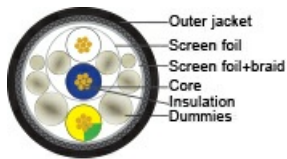
Application

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 in harsh arctic environments.



Construction

Conductor	Stranded tinned Cu 0.75mm ² (24 x 0.20 mm)
Dielectricum	Cellular PE , Ø=2,95 [mm]
No. of pairs	1
Colour code	white-blue
Individual Screen pairs	Al-/polyester tape 100% [coverage]
Drainwire	Tinned Cu 24x0,20mm (0.75mm ²) polyolefin insulated, Ø=2.95mm, yellow/green.
Bedding	One screened pair with one grounding wire with fillers
Screen	Tinned Cu-braid ≥80% [coverage]
Outer Jacket	Black LSZH UV-resistant material SHF2
O.D.	11,2 ± 0,8 [mm]
Weight	170 [kg/km]
Jacket marking	NEK Kabel - Canbus Marin 1x2x0.75+0.75mm ² - SHF2 -Arctic Grade - RS - IEC 60332-3-22 Cat A - DD/MM/YY - *****METERS



Specifications

Operating temperature normal	-45 – +80 [°C]
Operating temperature max	-55 – +80 [°C]
Temperature @ installation	-20 – +70 [°C]
Operating voltage	100 [V]
Test Voltage	1000 [V-DC] (for
Characteristic impedance	120 ± 10% [Ω @ 1MHz]
Conductor resistance	≤ 26 [Ω/km]
Tensile strength	50 [N]
Insulation resistance	1 [GΩ x km @ 20°C]
Capacitance	40 [pF/m @ 800-1000Hz]
Attenuation	≤25 [dB/km @ 1MHz]
Transmission speed	- 500 kbit/s - 100 m (328 ft) - 250 kbit/s - 250 m (820 ft)
Min. bending radius	20 [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 IEC 60811
Design and testing standards	IEC 60092-370
Cold bend and impact	Cold Bend : CSA C22.2 (-55°C) Cold Impact : CSA C22.2 (-55°C)
Flame resistance	IEC 60332-3-22 Cat.A
Flame retardant	IEC 60332-1-2
Ozone resistant	IEC 60811-2-1
Oil and fuel, hydrocarbons resistant	IRM 902 100°C x 24h
Smoke emission	IEC 61034-2 , (transmittance) ≥ 60%
UV-resistant	UL 1581 (300H)
Certification	RS



Prod.no	3020005
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Updated

Date	Rev.	Description
10.12.2020	1	Created
20.01.2022	2	Temperature