

## CAN BUS Marin 2 pair Arctic Grade

**Flexible 0.75mm<sup>2</sup>**  
**Tinned Cu conductor**  
**SHF2**  
**RMRS**

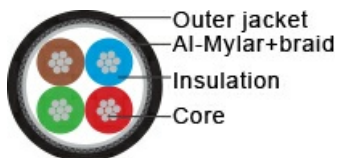
### Application

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 <sup>2</sup> (24 x 0.20 mm)
Insulation	Cellular PE Ø=2,95 [mm]
No. of pairs	2
Colour code	1. green-blue, 2. red-brown
Screen	Al/Mylar 100 [% optical coverage]
Screen 2	Tinned Cu braid ≥80 [% optical coverage]
Outer Jacket	Black SHF2
O.D.	10,50 [mm]
Weight	225 [kg/km]
Jacket marking	NEK Kabel - CANBUS MARIN SHF2 2x2x0.75mm <sup>2</sup> - Arctic Grade - RS - IEC 60332-3-22 - DD/MM/YY - *****



## Specifications

Operating temperature normal	-45 – +80 [°C]
Operating temperature max	-55 – +80 [°C]
Temperature @ installation	-25 – +70 [°C]
Operating voltage	100 [V]
Test Voltage	1000 [V-DC]
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	13.2 [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 and IEC 60754-2
Material properties, insulation and sheath	IEC 60092-360 IEC 60811
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 61034-1, -2 EN 50268-2 , (transmittance ≥60%)
UV-resistant	UL 1581 (300H)
Certification	RS



Prod.no 3020006

## Updated

Date	Rev.	Description
10.12.2020	1	Created
20.01.2022	2	Temperature