RS 485 Marine

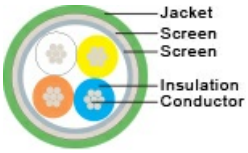
Flexible
120Ω
SHF1
DNV-GL

Application

Marine cable for monitoring oil wells and linking POS terminals, to alarm systems, motion control and HVAC controls. Extended capability transceivers offer data rates up to 100Mbps and up to 256 nodes, as well as 2500 VRMS isolation and fault protection up to ± 60V. Installations up to 1200m. Outer jacket SHF1.

Construction

Conductor	Stranded Tinned Cu AWG 22/7
Number of conductors	4
Dielectricum	Foamed PE Ø = 1,75 [mm]
Colour code	White, yellow, blue, orange
Screen	Al/Mylar 100 [% optical coverage]
Screen 2	Tinned Cu braid ≥85 [% optical coverage]
Jacket	Black or green SHF1
O.D.	6,5 [mm]
Weight	58 [kg/km]
Jacket marking	NEK Kabel AS - BUS RS485 4XAWG22/7 - SHF1 - DNV/GL - IEC60332-3-24 - ****m - DD/MM/YY



Specifications

Operating temperature	-30 – +80 [°C]
Temperature @ installation	0 – +60 [°C]
Dielectric strength	DC 2kV for 1min.
Characteristic impedance	120 ± 15 [Ω @ 1MHz]
Conductor resistance	≤55 [Ω/km]
Resistance unbalance	≤5 [%]
Insulation resistance	≥1 [GΩ x km]
Attenuation	≤20,0 [dB/km @1MHz]
Min. bending radius	8 [x outer diam]

Norms

Halogenfree, max content corrosive and toxic gases	IEC 60754-1, 2
Material properties, insulation and sheath	IEC 60092-360
Design and testing standards	IEC 61158-2
Flame resistance	IEC 60332-3-22 Cat.A
Oil and fuel, hydrocarbons resistant	IEC 60811-2-1 IRM 902 23ºC / 7 days, 70°C / 4h
Smoke emission	IEC 60754-2
UV-resistant	UL 1581
Certification	DNV-GL

RoHS CE

Part No.	2040000

Updated

Date	Rev.	Description
25.11.2019	1	Additional technical data