

RS 485 Marine ARM MUD

Flexible 1, 2 or 4 pairs

SHF2

120Ω

DNV-GL

Application

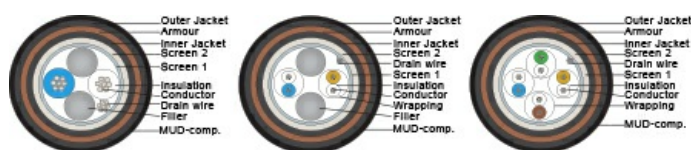
Armoured marine cable for monitoring oil wells and linking PSA terminals to alarm systems, motion control and HVAC controls. Extended capability transceivers offer data rates up to 100 Mbps and up to 256 nodes, as well as 2,500 VNMS isolation and fault protection up to ±60 V. Installations up to 1,200 m.



Construction

Conductor	0.22 [mm ²] Stranded Tinned Cu AWG 24 (7x0.20mm)
Drain wire	0.22 mm ² Tinned Cu
Insulation	Cellular PE
No. of pairs	1, 2 or 4
Colour code	IEC 60189-2
Screen	Cu-braid 85 [% optical coverage]
Inner jacket	SHF1
Armour alt.1	Bronze wire braid (BWB)
Armour alt.2	Tinned Cu-braid (TWB)
Armour alt.3	Galvanised steel wire braid (GSWB)
Jacket	Black Halogenfree and MUD resistant thermoset compound
O.D.	See table [mm]
Weight	See table [kg/km]

Jacket marking
 NEK Kabel date RS485 ARMoured MARINE CABLE 24 AWG 120 OHM IEC 60332-3-22 CAT A-TK



Specifications

Operating temperature	-40 – +70 [°C]
Characteristic Impedance @ 1MHz	120 ± 15 [Ω]
Operating voltage	100 [V]
Conductor resistance	<90 [Ω/km]
Insulation resistance	>1 [GΩ x km]
Test voltage	2 [kV]
Capacitance	42 [pF/km]
Min. bending radius	10 [x outer diam]



Norms

Halogenfree, max content corrosive and toxic gases	IEC 60754-1, -2
Design and testing standards	Work area wiring IEC 61156-6
Sheathing material	IEC 60092-360 (359)
Flame retardant	IEC 60332-1
Fire retardant	IEC 60332-3-22 Cat.A
Smoke emission	IEC 61034-1, -2
MUD resistant	NEK TS 606 F5
UV-resistant	ASTM G 154
Certification	DNV-GL

Number of pairs	Diam. inner jacket [mm]	Diam. outer jacket [mm]	Weight app. [kg/km]
1	5.8	10.5	200
2	7.3	12.2	230
4	8.0	13.0	270

Updated

Date	Rev.	Description
15.12.2015	2	Norms