

RS 422 Marine ARM

SHF1/UV or SHF2

100Ω

1, 2 and 4 pairs

DNV

Application

4 pairs armoured 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 100 Mbps and up to 256 nodes, as well as 2500 VRMS isolation and fault protection up to ± 60 V. Installations up to 1200m.



Construction

Conductor	0.22 [mm²] Stranded Tinned Cu AWG 24 (7x0.20mm)
Insulation	Low density PE
No. of pairs	1, 2 or 4
Colour code	IEC 60189-2
Screen	> 80% [% optical coverage]
Overall Screen	Al-polyester tape
Inner jacket	SHF1
Armour alt.1	Galvanised steel wire braid
Armour alt.2	Tinned Cu-braid
Armour alt.3	Bronze wire braid
Outer Jacket	Halogen free compound SHF1 Available and approved DNV-GL with SHF2 jacket.
O.D.	See table [mm]
Weight	See table [kg/km]
Jacket marking	NEK Kabel – RS 422 – SHF1 – ARMOURED MARINE CABLE – 24 AWG – 100 OHM – IEC 60332-3-22 CAT A – TK

Specifications

Operating temperature normal	-40 – +70 [°C]
Operating voltage	100 [V]
Characteristic impedance	100 ± 15 [Ω]
Conductor resistance	>90 [Ω/km]
Test voltage	2000 [V-DC]
Insulation resistance drainwire - conductor	≥ 10 [MΩ x km]
Attenuation	28 dB/km

Norms

Halogenfree, max content corrosive and toxic gases	IEC 60754-1 & IEC 60754-2
Material properties, insulation and sheath	IEC 60092-360 (359) 3582
Design and testing standards	Work area wiring IEC 61156-6
Flame resistance	IEC 60332-3-22 Cat.A
Flame retardant	IEC 60332-1
Weather resistant	ASTM G 154, ASTM D 4587, EN ISO 11507
Ozone resistant	DIN VDE 0472 part 805 B
Smoke emission	IEC 61034-1 & IEC 61034-2
UV-resistant	ASTM G 154
Certification	DNV

Part No.	1 pair: 1089603 2 pairs: 1089604 4 pairs: 1089605
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Number of pairs	Diam. inner jacket [mm]	Diam. outer jacket [mm]	Weight app. [kg/km]	Part no.
1 x 2 x AWG24	5,0	8,8	140	1089603
2 x 2 x AWG24	6,6	10,5	170	1089604
4 x 2 x AWG24	7,0	11,0	200	1089605

Updated

Date	Rev.	Description
30.01.15	2	Update
26.11.15	3	Update