

RG 213 U Marine ARM MUD

50Ω

Flexible, SHF2

DNV / ABS

Application

Armoured coaxial cable for ship- and offshore applications. VHF/UHF equipment. Electrical specifications in compliance with MIL C-17/F.

The steel braid meets EU EMC requirements. Also meets the requirements of Anatel.



Construction

Conductor	Stranded Plain Cu
Dielectricum	Low density PE 7.25 ± 0.18 [mm]
Screen	Al + polyester + Al tape 100 [% optical coverage]
Screen 2	Cu- braid 96 [% optical coverage]
Inner jacket	SHF1
Armour alt.1	Galvanised steel wire braid 144 x 0.24 mm
Armour alt.2	Tinned Cu-braid 144 x 0.24 mm
Armour alt.3	Bronze wire braid 144 x 0.24 mm
Jacket	Black SHF2
O.D.	17.0 ± 0.2 [mm]
Weight	360 [kg/km]
Jacket marking	NEK Kabel – RG213U Marine – SHF2 – ARMOURED – DNV – IEC60332-3-24



Specifications

Operating temperature normal	-40 – +70
Characteristic impedance	50 ± 2 Ω
Braid Resistance	4.4 [Ω/km]
Conductor resistance	8 [Ω/km]
Test voltage	5.5 [kV]
Capacitance	100 [pF/m]
Velocity factor	0.66
Min. bending radius	5 [x outer diam]
Min. bending radius flexible	10 [x outer diam]

Norms

Halogenfree, max content corrosive and toxic gases	IEC 60754-1 & IEC 60754-2
Material properties, insulation and sheath	IEC 60092-359
Design and testing standards	IEC 60096-0-1 Ed 3
Flame resistance	IEC 60332-3-22 & IEC 60332-3-24
Flame retardant	IEC 60332-1-2
Smoke emission	IEC 61034-1 & IEC 61034-2
Oil and fuel resistant	IEC 60811-3-1
MUD resistant	NEK TS 606
UV-resistant	UL 1581
Certification	DNV

Part No.	1092443 (GSWB)
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Attenuation nominal, max 105%

Frequency MHz	Attenuation dB/100m
5	1.1
10	1.5
50	3.8
100	5.5
200	8
300	10.1
500	13.2
800	17.5
1000	20
1500	25.3
2150	31.5
2500	34.7
2750	36.7
3000	38.3

Structural return loss

MHz	dB
30 – 300	>31
300 – 600	>28
600 – 1000	>20
1000 – 2000	>24
2000 – 3000	>22

Screen effectiveness IEC 61196-1

MHz	dB
100 – 900	>90
900 – 2000	>80
2000 – 3000	>70