



RG 214 U Marine ARM MUD

50Ω

Armoured,
SHF2 MUD
DNV

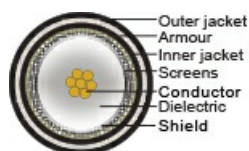
Application

Mud resistant and armoured coaxial cable for ship and other marine environments for VHF/UHF equipment. Electrical data in compliance with MIL C-17/F, with extra screen for excellent EMC properties. Replaces RG 215 and have better values. Also meets the requirements of Anatel.



Construction

Conductor	Stranded Silvercoated Cu 7 x 0.75 [mm]
Dielectricum	Low density PE 7.25 ± 0.18 [mm]
Screen	Al + polyester + Al tape 100 [% optical coverage]
Screen 2	Silvercoated Cu braid 94 [% optical coverage]
Screen 3	Silvercoated Cu braid 98 [% optical coverage]
Inner jacket	SHF1 10.00 ± 0.18 [mm]
Armour alt.1	Zinc-plated steel wires
Armour alt.2	Tinned Cu-braid
Outer Jacket	Black MUD resistant SHF2
O.D.	17.0 ± 0.2 [mm]
Weight	399 [kg/km]
Jacket marking	NEK Kabel date RG214U Marine SHF1 ARMOURED DNV



Specifications

Operating temperature normal	-40 – +70 [°C]
Operating voltage	5 [kV]
Test Voltage	10 [kV]
Tension spark test	5.5 [Kv]
Characteristic impedance	50 ± 2 Ω
Braid Resistance	4.2 [Ω/km]
Conductor resistance	6 [Ω/km]
Capacitance	100 [pF/m]
Velocity factor	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 NES 713
Material properties, insulation and sheath	IEC 60092-359
Design and testing standards	IEC 60096-0-1 Ed 3 IEC 61196-1-100
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.	1092447
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If MUD resistance is not necessary, please see our Part. no.1092445



Attenuation nominal, max 105%

Frequency MHz	Attenuation dB/100m
5	1.1
10	1.5
100	5.4
300	9.9
500	12.9
800	17.2
1000	19.8
1500	24.8
2150	30.9
2500	34.0
3000	37.6
5500	55



Structural return loss

MHz	dB
30 – 300	>31
300 – 600	>28
600 – 1000	>27
100 – 2000	>24
2000 – 3000	>22

Screen effectiveness IEC 61196-1

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