RG 214 U Marine ARM

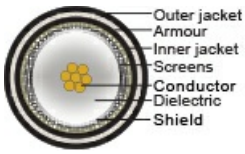
50Ω
Silverplated conductor and screen
SHF1, UV
DNV / ABS

Application

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
Armour alt.1	Zinc-plated steel wires
Armour alt.2	Tinned Cu-braid
Outer Jacket	Black UV-resistant SHF1
O.D.	14.8 [mm]
Weight	324 [kg/km]



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 flexible	15 [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 3582
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
UV-resistant	UL 1581, ISO 4892
Certification	DNV / ABS

Part No.	1092445 (Steel wire armour) 1092462 (Tinned Cu wire armour)

Tips

Alternative product with MUD resistant jacket, Part. no. 1092447

RoHS CE

Attenuation

Frequency (MHz)	Attenuation Max. (dB/100m)
5	1.1
10	1.5
50	3.8
100	5.4
200	7.9
300	9.9
500	12.9
600	14.5
800	17.2
1000	19.6
1350	23.5
1500	24.8
1750	27.4
2150	30.9
2250	31.8
2500	34.0
2750	36.0
3000	37.6
5500	55

Structural return loss dB

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

Screening effectiveness IEC 61196-1

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

Updated

Date	Rev.	Description
10.03.2015	1	Armour
01.12.2015	2	Edit text, SHF1