

RG 214 U Marine ARM

50Ω

SHF1

Silverplated conductor and screen

DNV / ABS

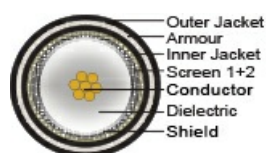
Application

Coaxial cable for ship and other marine environments for VHF/UHF equipment. Galvanized steel wire armour. Electrical data in compliance with MIL C-17/F, with extra screen for excellent EMC properties. Replaces RG 215 and have better values.



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	Silvercoated Cu braid 94 [% optical coverage]
Screen 2	Silvercoated Cu braid 98 [% optical coverage]
Inner jacket	SHF1
Armour alt. 1	Galvanised steel wire braid
Armour alt. 2	Tinned Cu-braid
Armour alt. 3	Bronze wire braid
Jacket	Black SHF1
O.D.	14,8 [mm]
Weight	324 [kg/km]



Specifications

Operating temperature normal	-40 - +70 [°C]
Characteristic impedance	50±2 [Ω]
Braid Resistance	4.2 [Ω/km]
Conductor resistance	6 [Ω/km]
Test voltage	5,5 [kV]
Capacitance	100 [pF/m]
Min. bending radius flexible	15 [x outer diam]



Norms

Halogenfree, max content corrosive and toxic gases	IEC 60754-2
Material properties, insulation and sheath	IEC 60092-360 (359) 3582
Design and testing standards	IEC 60096-0-1 Ed 3
Flame resistance	IEC 60332-3-22 Cat.A
Flame retardant	IEC 60332-1
Smoke emission	IEC 61034-1 & IEC 61034-2
UV-resistant	UL 1581, ISO 4892
Certification	DNV / ABS

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

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





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, SHF 1