

RG 58 C/U Marine ARM

50Ω

Al-tape + Cu braid

Armour

SHF1

DNV

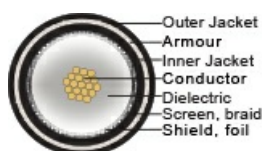
Application

Coaxial communications cable for ship- and offshore use with excellent EMC properties.
Electrical data in compliance with MIL C-17.



Construction

Conductor	Extra flexible 19 x 0.18 [mm]
Dielectricum	Low density PE 2.95 ± 0.10 [mm]
Screen	Al-polyester-Al-tape 100 [% optical coverage]
Screen 2	Tinned Cu braid 93 [% optical coverage]] 144 x 0.1 [mm]
Inner jacket	SHF1
Armour alt.1	Galvanised steel wire braid
Armour alt.2	Tinned Cu-braid (Triax)
Jacket	Black SHF1
O.D.	8.0 ± 0.20 [mm]
Weight	113 [kg/km]



Specifications

Operating temperature normal	-40 – 80 [°C]
Characteristic impedance	50 ± 2 [Ω]
Braid Resistance	12 [Ω/km]
Conductor resistance	36.5 ± 1.5 [Ω/km]
Test voltage	3.5 [kV]
Capacitance	100 ± 2 [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
Flame resistance	IEC 60332-3-22 Cat.A
Flame retardant	IEC 60332-1-2
Smoke emission	IEC 61034-1 & IEC 61034-2
Oil and fuel resistant	IEC 60811-3-1
Certification	DNV / ABS

Part No.	1092437
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Attenuation nominal, max 105%

Frequency MHz	Attenuation dB/100m
5	3.0
10	4.1
30	7.5
50	9.7
150	16.4
220	20.1
450	30.0
600	35.4
800	41.6
900	44.5
100	47.5
1500	60.9
1800	68.1
2000	73.3
2500	85.1
3000	91.3

Structural return loss

MHz	dB
30 – 450	> 27
450 – 1000	> 25
1000 – 2000	> 20
2000 – 3000	> 18

Screen effectiveness IEC 61196-1

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

Updated

Date	Rev.	Description
21.09.2021	1	Euroclass
28.04.2023	2	Additional info - norms - attenuation