

RG 59 B/U Marine Flex ARM

75Ω Flexible

Steel wire armour

SHF1

DNV

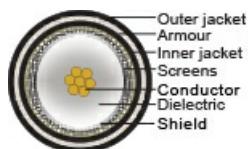
Application

RG 59 type, with flexible conductor for ship- and offshore communication and video signals. Stranded conductor protecting against vibrations.



Construction

Conductor	Flexible Plain Cu 7 x 0.20 [mm]
Dielectricum	Low density PE 3.7 ± 0.1 [mm]
Screen	Al-polyester + Al tape 100 [% optical coverage]
Screen	Cu-braid 91 [% optical coverage] 168 x 0.10 [mm]
Inner jacket	SHF1 6.2 ± 0.2 [mm]
Armour alt.1	Galvanised steel wire braid 87 [% optical coverage]
Armour alt.2	Tinned Cu-braid 87 [% optical coverage]
Armour alt.3	Bronze wire braid 87 [% optical coverage]
Jacket	Black SHF1
O.D.	9.4 ± 0.2 [mm]
Weight	139 [kg/km]
Jacket marking	NEK Kabel – RG59 Flex Marine – SHF1 – Armoured – DNV – IEC60332-3-24 – DD/MM/YY – batch no. – ****M



Specifications

Operating temperature normal	-40 – +80 [°C]
Characteristic impedance	75 ± 3 [Ω]
Braid Resistance	10 [Ω/km]
Conductor resistance	82 [Ω/km]
Test voltage	5 [kV]
Capacitance	67 [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
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
Oil and fuel resistant	IEC 60811-3-1
UV-resistant	UL 1581, ISO 4892
Certification	DNV
Part No.	1092226 (GSWB)



Alternative designs, where the steel wire braid is replaced by bronze or copper braid is available on request.

Attenuation nominal, max 105%

Frequency MHz	Attenuation dB/100m
5	2.6
10	3.3
50	7.3
100	10.8
200	15.3
400	21.9
500	25.1
600	27.4
800	32.0
1000	36.3
1350	42.6
1500	46.0
1750	50.5
21.50	57.5
2250	58.7
2500	62.4
2750	56.8
3000	70.7

Structural return loss

MHz	dB
30 – 300	> 30
300 – 600	> 25
600 – 1000	> 22
1000 – 2000	> 20
2000 – 3000	> 16

Screen effectiveness IEC 61196-1

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

Updated

Date	Rev.	Description
03.05.2023	1	Norms & attenuation