

## RG 59 B/U Marine Flex ARM

75Ω Flexible

Steel wire armour

SHF1

DNV

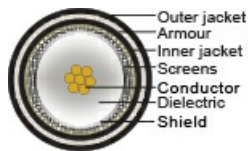
### Application

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)
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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