



RG 59 B/U Marine Flex

75 Ω Flexible

SHF1

DNV

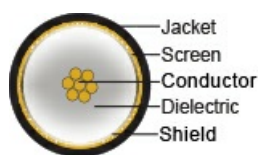
Application

Type RG 59 for ship- and offshore applications. Communication and video signals. Stranded conductor is used for better protection against vibrations and cold bend.



Construction

Conductor	Stranded Plain Cu 7 x 0.20 [mm]
Dielectricum	Low density PE 3.7 $\pm$ 0.10 [mm]
Screen	Al-polyester + Al tape 100 [% optical coverage]
Screen	Cu-braid 91 [% optical coverage]
Jacket	Black SHF1
O.D.	6.20 $\pm$ 0.20 [mm]
Weight	52 [kg/km]
Jacket marking	NEK Kabel – RG 59 B/U Marine Flex – DD/MM/YY – batch **** – ****m



Specifications

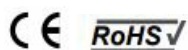
Operating temperature normal	-40 – +80 [°C]
Characteristic impedance	75 $\pm$ 3 [Ω]
Braid Resistance	10 [Ω /km]
Conductor resistance	82 [Ω /km]
Test voltage	5 [kV]
Capacitance	67 [pF/m]
Velocity factor	0,66
Min. bending radius	5 [x outer diam]
Min. bending radius flexible	10 [x outer diam]



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
Toxic gases max.	IEC 60092-359
Smoke emission	IEC 61034-2
Oil and fuel resistant	IEC 60811-3-1
UV-resistant	UL 1581, ISO 4892
Certification	DNV

Part No.	1092218
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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
2150	57.5
2250	58.7
2500	62.4
2750	65.8
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