



RF 400 Marine 75Ω

Double screened
Low Loss coaxial
75 Ω
SHF1, UV
DNV

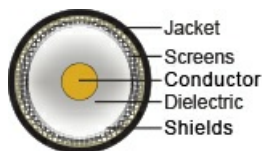
Application

Low loss coaxial cable designed for ship- and offshore applications. Data and video signals transmission, rated up to 3 GHz.
Electrical data in compliance with MIL C-17/F.



Construction

Conductor	Solid Bare Cu Ø = 1.65 [mm]
Dielectricum	Foamed PE Ø = 7.20 ± 0.10 [mm]
Screen	Al + polyester + Al tape 100 [% coverage]
Screen 2	Tinned Cu braid 91 [% optical coverage] 192 x 0.15 [mm]
Jacket	Black SHF1
O.D.	10.30 ± 0.18 [mm]
Weight	127 [kg/km]
Jacket marking	NEK KABEL AS – RF 400 Marine 75Ω – SHF1 – IEC 60332-3-22 – DNV – dd/mm/yyyy – <batch> – ****meter



Specifications

Operating temperature normal	-40 – +80 [°C]
Test Voltage	6.0 [kV]
Resistance	Inner conductor: 8.2 [Ω/km] Braid: 5.0 [Ω/km]
Capacitance	53 [pF/m]
Impedance	75 ± 3 [Ω]
Velocity factor	84 %
Min. bending radius	5 [x outer diam]
Min. bending radius repeated	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 & IEC 60332-3-24
Flame retardant	IEC 60332-1-2
Toxic gases max.	IEC 61034-2
Smoke emission	IEC 60754-2
Oil and fuel resistant	IEC 60811-3-1
Certification	DNV

Part No.	1092225
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Structural return loss

MHz	dB
30 - 470	> 31
470 - 862	> 26
862 - 2150	> 23
2150 - 3000	> 20

Screen effectiveness IEC 61196-1

MHz	dB
5 - 30	< 5
30 - 1000	> 90
1000 - 2000	> 80
2000 - 3000	> 70



Attenuation

Frequency [MHz]	Attenuation [dB/100m $\pm 5\%$]
5	0.9
10	1.2
50	2.8
100	3.8
200	5.4
300	6.5
470	8.6
600	9.8
800	11.7
862	11.9
1000	12.9
1350	15.3
1500	16.4
1750	17.8
2150	19.5
2400	20.4
2750	22.1
3000	23.5

Updated

Date	Rev.	Description
03.04.2023	1	Norms
05.05.2025	2	Additional info