

RF-LLX-CL 1/2" SHF1

Coupling Leaky Cable

50Ω

SHF1

DNV

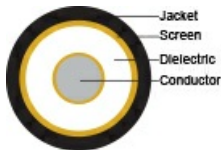
Application

Radiating coaxial cable for tunnels, ships, buildings and other closed areas.



Construction coaxial

Conductor	Cu-clad Al 4.80 ± 0.05 [mm]
Dielectric	Foamed PE 12.10 ± 0.20 [mm]
Screen	Slotted Cu-tube 13.90 ± 0.25 [mm]
Jacket	SHF1
Outer diam.	16.5 ± 0.5 [mm]
Weight	248 [kg/km]



Specifications

Operating temperature normal	-20 – +70 [°C]
Temperature @ installation	-20 – +50 [°C]
Characteristic impedance	50±2 [Ω]
Insulation resistance	10000 [MΩ x km]
Tensile strength	1130 [N]
Velocity factor	0,88
Min. bending radius	80 [mm]
Min. bending radius @ installation	125 [mm]

Norms

Halogenfree, max content corrosive and toxic gases	IEC 60754-1 & IEC 60754-2
Material properties, insulation and sheath	IEC 60092-360 (359) , NEK 606
Design and testing standards	IEC 60096-0-1 Ed 3 EN 50288-1
Flame resistance	IEC 60332-3-22 Cat.A , IEC 60332-3-24 Cat.C
Flame retardant	IEC 60332-1-2
Smoke emission	IEC 61034-2
Oil and fuel resistant	IEC 60811-2-1 Mineral Oils, IRM 902: 23°C / 7 days, 70°C / 4h Diesel, IRM 903: 23°C / 7 days, 70°C / 4h
UV-resistant	ASTM G 154
CPR classification	Dca-s1,d2,a1
Certification	DNV
Part No.	1092479



NEK offers connectors for RF-LLX-CL 1/2":
Female part no. 65443



Attenuation

Frequency [MHz]	Attenuation [dB/100m ±5%]	Coupling loss 95% [dB±10%]
150	3.40	62/78
450	6.60	70/80
900	9.50	71/82
1800	13.75	77/88
2200	15.40	76/85
2400	16.00	77/87

VSWR

Frequency [MHz]	-
260 – 480	≤ 1.25
820 – 960	≤ 1.25
1700 – 1860	≤ 1.25
1900 – 2050	≤ 1.30
2100 – 2200	≤ 1.30
2300 – 2400	≤ 1.30

Updated

Date	Rev.	Description
20.04.2020	1	Picture
15.05.2020	2	VSWR
29.05.2020	3	Attenuation
01.06.2022	4	Weight and DNV-GL
22.12.2023	5	Norms