



# RF-LLX-CL 1/2" SHF1

## Coupling Leaky Cable

50Ω

SHF1, UV

DNV

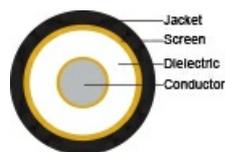
### Application

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



### Construction coaxial

Conductor	Cu-clad Al 4.8 ± 0.2 [mm]
Dielectric	Foamed PE 12.0 ± 0.5 [mm]
Screen	Slotted Cu-tube 13.9 ± 0.5 [mm]
Jacket	Black SHF1 UV-resistant
Outer diam.	16.0 ± 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	5000 [MΩ x km]
Tensile strength	1130 [N]
Velocity factor	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
Weather resistant	ASTM G 154
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
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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	3.4	78
450	6.6	80
700	7.7	80
900	8.3	82
1800	13.7	88
1900	13.6	82
2200	15.4	85
2400	16.0	87
2600	16.8	82
3000	18.2	88
3500	19.9	85
3600	22.8	85



## VSWR

Frequency [MHz]	-
260 – 480	≤ 1.30
820 – 960	≤ 1.30
1700 – 1860	≤ 1.30
1900 – 2050	≤ 1.30
2100 – 2200	≤ 1.30
2300 – 2500	≤ 1.30
2500 – 2700	≤ 1.30
3400 – 3600	≤ 1.35

## 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
23.04.2025	6	Attenuation
03.03.2026	7	Construction and attenuation