



RF-LLX-CL 1/2" SHF2

Coupling Leaky Cable

50Ω

SHF2, UV

DNV

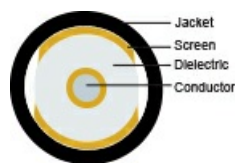
Application

Radiating coaxial antenna cable for maritime, building, and tunnel installations where conventional radio coverage is limited. RF-LLX-CL supports wideband frequency operation and enables uniform RF signal coupling along the cable, making it suitable for communication systems with extended frequency range requirements.



Construction

Conductor	Copper-clad Al 4.8 ± 0.2 [mm]
Dielectricum	Foamed PE 12.0 ± 0.5 [mm]
Screen	Slotted corrugated copper tube 13.9 ± 0.5 [mm]
Jacket	Black SHF2 UV-resistant
O.D.	16.0 ± 0.5 [mm]
Jacket marking	NEK Kabel – RF-LLX-CL 1/2" – SHF2 – DNV – DD/MM/YYYY – <batch no.> – ****m



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)
Design and testing standards	IEC 60096-0-1 Ed 3 IEC 61196-1-100
Flame resistance	IEC 60332-3-22 Cat.A , IEC 60332-3-24 Cat.C
Flame retardant	IEC 60332-1-2
Smoke emission	IEC 61034-1 & IEC 61034-2
UV-resistant	ASTM G 154
Certification	DNV

Prod.no	3031016
---------	---------



NEK offers:

ConMarin N-Female PO: 65464

ConMarin N-Male PO: 65402

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
2100 - 2200	≤ 1.30
2300 - 2500	≤ 1.30
2500 - 2700	≤ 1.30
3400 – 3600	≤ 1.35

Updated

Date	Rev.	Description
23.04.2025	1	Attenuation
03.03.2026	2	Construction and attenuation