RF-LLX-CL 7/8" SHF2

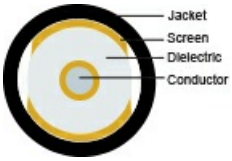
Coupling Leaky Cable
50Ω
SHF2, UV
DNV

Application

Radiating coaxial cable for tunnels, ships, buildings and other closed areas. Outer sheath SHF2

Construction

Conductor	Cu-tube Ø = 9.0 ± 0.2 [mm]
Dielectricum	Cellular PE Ø = 22.0 ± 0.5 [mm]
Screen	Slotted corrugated copper tube Ø = 24.9 ± 0.5 [mm]
Jacket	Black SHF2 UV-resistant
O.D.	27.5 ± 0.5 [mm]
Weight	460 [kg/km]
Jacket marking	NEK Kabel – RF-LLX-CL 1/2" – SHF2 – DNV – DD/MM/YYYY – <batch no.> – ****m



Specifications

Operating temperature normal	-25 – +70 [°C]
Characteristic impedance	50 ± 2 [Ω]
Insulation resistance	5 [GΩ x km]
Tensile strength	1500 [N]
Velocity factor	88 [%]
Min. bending radius	250 [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 60332-3-24 Cat.C
Flame retardant	IEC 60332-1-2
Weather resistant	ASTM G 154
Smoke emission	IEC 61034-2
UV-resistant	ASTM G 154
Certification	DNV

Prod.no	3031015

Attenuation

Frequency [MHz]	Attenuation [dB/100m ±5%]	Coupling loss 95% [dB±10]
150	≤ 1.8	70
450	≤ 3.6	74
700	≤ 4.2	77
900	≤ 5.3	79
1800	≤ 7.5	78
2200	≤ 8.3	77
2400	≤ 8.7	84

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
19.11.2024	1	Attenuation and VSWR
23.04.2025	2	Attenuation