



RF LLF 7/8" SHF1

Feeder cable

50Ω

SHF1

DNV

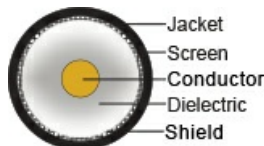
Application

Low loss flexible feeder cable designed for broadband transmission from sources like radio antennas, radars, GPS devices, mobile phone antennas to distribution systems inside ships, tunnels, buildings and underground areas where RF signals normally cannot be received.



Construction

Conductor	Cu-tube 9.45 [mm]
Dielectricum	Cellular PE 23..0 [mm]
Screen	Corrugated Cu tube 25.2 [mm]
Jacket	Black or grey SHF1 UV-resistant
O.D.	28.5 [mm]
Weight	450 [kg/km]
Jacket marking	NEK Kabel – RF LLF 7/8" 50 SHF1 – DNV – DD/MM/YYYY – <batch no.> – ****m



Specifications

Operating temperature normal	40 – +70 [°C]
Temperature @ installation	-5 – +50 [°C]
Recommended clamp spacing	1 [m]
Peak RF voltage	3.3 [kV]
Peak power rating	92.0 [kW]
Characteristic impedance	50 ± 2 [Ω]
Insulation resistance	10000 [MΩ x km]
Frequency	Max 5000 MHz
Tensile strength	1700 [N]
Capacitance	74.2 [pF/m]
Velocity factor	88 [%]
Min. bending radius	150 [mm]
Min. bending radius @ installation	275 [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
Smoke emission	IEC 61034-1
UV-resistant	ASTM G 154
Certification	DNV

Part No.	Black: 1028851 Grey: 1028858
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NEK offers connectors for RF LLF 7/8":
Male part no. 65467 and Female part no. 65427



Attenuation nominal, max 105%

Frequency MHz	Attenuation dB/100m
150	≤ 1.45
450	≤ 2.60
700	≤ 3.3
800	≤ 3.57
900	≤ 3.81
1800	≤ 5.65
2000	≤ 6.00
2200	≤ 6.34
2400	≤ 6.67
2500	≤ 6.84
2700	≤ 7.15
3000	≤ 7.61
5800	-



VSWR

Frequency [MHz]	-
320 – 480	≤ 1.20
820 – 960	≤ 1.20
1700 – 1880	≤ 1.20
1880 – 2180	≤ 1.20
2300 – 2500	≤ 1.20
2500 – 2700	≤ 1.20

Updated

Date	Rev.	Description
13.04.2016	1	Attenuation values
14.10.2016	2	Minor changes physical data (BS)
25.11.2016	3	Fire class.
13.09.2017	4	Update outer diam.
10.10.2017	5	Update screen resistance
27.11.2017	6	Update norms
27.09.2019	7	Corr. approvals
01.07.2022	8	corr. prod.no from 1092496 to 1028851
23.04.2024	9	Attenuation
10.012.2025	10	Additional info