

RF LLF 1 5/8" 50

Low loss Feeder cable

50Ω

SHF1

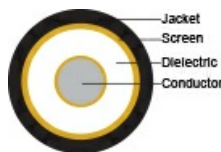
Application

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



Construction

Conductor	Cu-tube 17.3 [mm]
Dielectricum	Cellular PE 42.0 [mm]
Screen	Cu - tape 46.5 mm
Jacket	Black or grey SHF1
O.D.	50 [mm]
Weight	1,100 [kg/km]
Jacket marking	NEK Kabel, RF LLF 1 5/8 50 Date, batch number and meter marked



Specifications

Operating temperature normal	-40 – +70 [°C]
Temperature @ installation	-40 – +60 [°C]
Temperature storage	-70 – +85 [°C]
Test Voltage	15 [kV]
Inductance	0.187 [μH/m]
Screen resistance	0.60 [Ω/km]
Characteristic impedance	50 ± 2 Ω
Peak power rating	310 [kW]
Return Loss	20 [dB]
Conductor resistance	1.15 [Ω/km]
Frequency	150 – 2400 MHz
Tensile strength	180 kg
Capacitance	72.2 [pF/m]
Velocity factor	0,88
Min. bending radius flexible	500 [mm]
Min. bending radius installed	280 [mm]



Norms

Halogenfree, max content corrosive and toxic gases	IEC 60754-1 and IEC 60754-2
Material properties, insulation and sheath	IEC 60092-360 (359) 3582
Design and testing standards	IEC 60096-0-1 Ed 3
Flame resistance	IEC 60332-3-24 Cat.C
Flame retardant	IEC 60332-1
Smoke emission	IEC 61034
Part No.	1028853-black, 1028859-grey

Attenuation and Power rating

Frequency [MHz]	Nominal attenuation [dB/100m] max. 105%	Power rating [kW]
50	<0.60	16.14
88	<0.66	12.03
100	<0.70	11.26
150	<0.95	9.09
200	<1.10	7.81
300	<1.22	6.28
450	<1.66	5.04
500	<1.80	4.76
600	<2.00	4.30
700	<2.20	3.95
800	<2.40	3.66
900	<2.55	3.45
960	<2.60	3.30
1000	<2.65	3.23
1700	<3.60	2.38
1800	<3.80	2.3
2000	<4.20	2.16
2700	<4.80	1.81