RF LLF 7/8" 50

Feeder cable
50Ω
SHF1, UV
DNV-GL

FS cables
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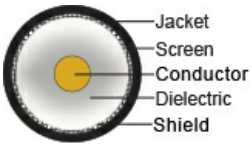
Application

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 ± 0.10 [mm]
Dielectricum	Cellular PE 23.20 ± 0.30 [mm]
Screen	Corrugated Cu tube 25.40 ± 0.30 [mm]
Jacket	Black or grey SHF1 UV-resistant
Outer diam	28.5 ± 0.40 [mm]
Weight	450 [kg/km]
Jacket marking	NEK Kabel, RF LLF 7/8" 50 Date, batch number and meter marked



Specifications

Operating temperature	-40 – +70 [°C]
Screen resistance	<1.6 [Ω/km]
Recommended clamp spacing	1 [m]
Peak RF voltage	3.3 [kV]
Peak power rating	92.0 [kW]
Characteristic impedance	50 ± 2 [Ω]
Conductor resistance	1.30 [Ω/km]
Frequency	Max 5,000 MHz
Capacitance	74.2 [pF/m]
Velocity factor	0.88
Min. bending radius	150 [mm]
Min. bending radius flexible	275 [mm]
Part No.	1028851-black, 1028858-grey

Norms

Halogenfree, max content corrosive and toxic gases	IEC 60754-1, -2
Design and testing standards	IEC 60096-0-1 Ed 3 IEC 61196-1-100
Sheathing material	IEC 60092-360 (359)
Fire retardant	IEC 60332-3-22 Cat.A + IEC 60332-3-22 Cat.A
Smoke emission	IEC 61034
UV-resistant	ASTM G 154
Certification	DNV-GL

RoHS

Frequency (MHz)	Nominal attenuation (dB/100m) max 105%	Power rating (kW)
50	0.70	11
88	1.00	8,5
100	1.12	8,0
200	1.50	5.6
300	1.90	4.5
450	2.40	3.6
500	2.50	3.4
700	2.95	2.8
800	3.00	2.6
900	3.40	2.5
1000	3.70	2.3
1400	4.45	1.9
1800	5.09	1.7
2000	5.20	1.6
2400	5.90	1.4
3000	6.90	1.2
3400	7.93	1.2
4000	8.50	1.0
5000	9.26	0.9

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