



RF LLF 1/2" 50

Feeder cable
50Ω
SHF1, UV
DNV-GL



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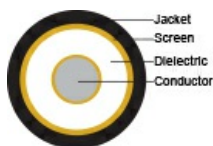
Application

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	Copper coated Al wire 4.80 ± 0.05 [mm]
Dielectricum	Cellular PE 12.10 ± 0.30 [mm]
Screen	Corrugated Cu tube 13.90 ± 0.25 [mm]
Jacket	Black or grey SHF1
Outer diam	16,40 ± 0,40 [mm]
Weight	250 [kg/km]
Jacket marking	NEK Kabel, RF LLF 1/2" 50 Date, batch number and meter marked

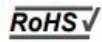


Specifications

Operating temperature	-40 – +70 [°C]
Inductance	0.19 [μH/m]
Screen resistance	<2.85 [Ω/km]
Peak RF voltage	1.8 [kV]
Characteristic impedance	50 ± 2 Ω
Peak power rating	31.8 [kW]
Conductor resistance	<1.60 [Ω/km]
Insulation resistance	10 [GΩ x km]
Capacitance	76 [pF/m]
Velocity factor	0.88
Max. power	31.8 [kW]

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 61034-1, -2
UV-resistant	ASTM G 154
Certification	DNV-GL



Part No. 1028850-black, 1028857-grey

Attenuation and Power rating

Frequency [MHz]	Nominal attenuation [dB/100m] max. 105%	Power rating [kW]
30	1.66	6.9
50	2.01	5.3
88	2.51	4.0
100	2.65	3.7
200	3.58	2.6
300	4.31	2.1
400	4.93	1.8
450	5.1	1.7
500	5.49	1.6
700	6.48	1.3
800	7.1	1.3
900	7.30	1.25
1000	7.78	1.1
1400	9.24	0.9
1800	10.90	0.78
2000	11.50	0.76
2400	12.90	0.66
3000	14.50	0.58
3400	15.50	0.54
6000	21.5	0.39
8000	27.0	0.31



Updated

Date	Rev.	Description
13.09.2017	1	Update outer diam.
10.10.2017	2	Update screen resistance
27.11.2017	3	Update design Norm