



Coaxial Cable



PRODUCT SPECIFICATION

LDF1-50

Standard coaxial cable, 1/4", 50 ohm foam HELIAX (Wideband from 0.5-15800 MHz)

CHARACTERISTICS

Mechanical Specifications

Pressurizable	No
Weight lb/ft (kg/m)	0.06 (0.09)
Tensile Strength lb (kg)	200.00 (91.00)
Flat PlateCrush Strength lb/in (kg/mm)	80.00 (1.40)
Minimum Bending Radius in (mm)	3.00 (76.00)
Bending Moment lb-ft (N-m)	0.98 (1.30)
Number of Bends minimum (typical)	15.00 (30.00)

Electrical Specifications

Cable Impedance (ohms)	50.00
Maximum Frequency (GHz)	15.80
Velocity percentage	86.00
Peak Power Rating (kW)	12.10
DC Resistance Inner ohms/1000ft (ohms/1000m)	1.57 (5.15)
DC Resistance Outer ohms/1000ft (ohms/1000m)	1.22 (4.00)
Cable Test Voltage (VDC)	2200.00
Jacket Spark volts (RMS)	5000.00
Capacitance pF/ft (pF/m)	23.40 (76.80)
Inductance microH/ft (microH/m)	0.06 (0.20)
Insulation Resistance (Meg-Ohms)	100000.00

Construction Materials

Dielectric Type	Low Density Foam Dielectric
Dielectric Material	Polyethylene Foam
Jacket Color	Black
Jacket Description	Polyethylene
Jacket Material	Polyethylene
Outer Conductor Material	Corrugated Copper
Inner Conductor Material	Copper-Clad Aluminum Wire

Dimensions

Diameter Over Jacket in (mm)	0.34 (8.60)
Outer Conductor Outside Diameter in (mm)	0.30 (7.60)
Outer Conductor Inside Diameter in (mm)	0.29 (7.40)
Inner Conductor Outside Diameter in (mm)	0.10 (2.50)

Customer Support Center:

From North America: 1-800-255-1479
International: +1-708-873-2307

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CHARACTERISTICS

General Specifications

Cable Grade	Standard
NEC Classification Type	N/A
Nominal Size (inches)	1/4

Connectors

Part Number	Connector Type	Special Characteristics	Inner Contact Attachment	Grade
L1PNF	N Female	N/A	Self-Tapping	Plated
L1PNF-BH	N Female	Bulkhead	Solder	Plated
L1PNM-H	N Male	Hex Head	Solder	Plated
L1PNM-HC	N Male	Hex Head	Captivated	Plated
L1PNR-HC	N Male	Right Angle	Captivated	Plated
L1PTM	TNC Male		Solder	Plated
L1PTR-C	TNC Male		Captivated	Plated

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Performance (Typical)

Frequency (MHz)	Attenuation (dB/100 ft)	Attenuation (dB/100 m)	Average Power (kW)
0.5	0.085	0.278	12.1
1	0.12	0.394	12.1
1.5	0.147	0.483	12.1
2	0.17	0.558	12.1
10	0.382	1.25	5.79
20	0.543	1.78	4.08
30	0.667	2.19	3.32
50	0.865	2.84	2.56
88	1.16	3.79	1.92
100	1.23	4.05	1.79
108	1.28	4.21	1.72
150	1.52	4.99	1.45
174	1.64	5.39	1.35
200	1.77	5.8	1.25
300	2.18	7.17	1.01
400	2.54	8.34	0.871
450	2.71	8.88	0.818
500	2.86	9.39	0.773
512	2.9	9.51	0.764
600	3.15	10.4	0.702
700	3.43	11.2	0.646
800	3.68	12.1	0.601
824	3.74	12.3	0.592
894	3.91	12.8	0.566
960	4.07	13.3	0.545
1000	4.16	13.6	0.533
1250	4.7	15.4	0.471
1500	5.19	17	0.426
1700	5.57	18.3	0.398
1800	5.75	18.9	0.385
2000	6.1	20	0.363
2100	6.27	20.6	0.353
2200	6.43	21.1	0.344

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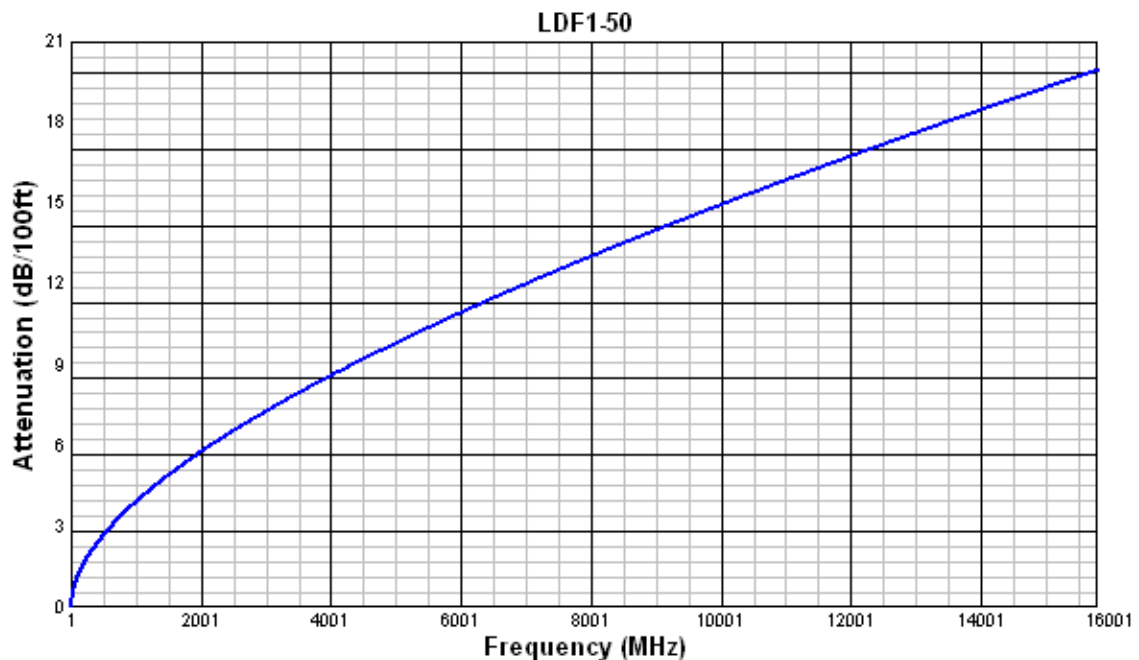
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CHARACTERISTICS

Performance

Frequency (MHz)	Attenuation (dB/100 ft)	Attenuation (dB/100 m)	Average Power (kW)
2300	6.6	21.6	0.336
3000	7.67	25.2	0.289
3400	8.24	27	0.269
4000	9.06	29.7	0.245
5000	10.3	33.9	0.215
6000	11.5	37.7	0.193
8000	13.7	44.9	0.162
10000	15.7	51.5	0.141
12000	17.6	57.7	0.126
14000	19.4	63.5	0.114
15800	20.9	68.6	0.106



Standard Conditions:

For Attenuation. VSWR 1.0, ambient temperature 20°C (68°F).

For Average Power. VSWR 1.0, ambient temperature 40°C (104°F), inner conductor temperature 100°C (212°F); no solar loading.

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