Coaxial Cable

PRODUCT SPECIFICATION

LDF6-50

Standard coaxial cable, 1-1/4", 50 ohm foam HELIAX (Wideband 0.5-3300 MHz)

CHARACTERISTICS

Mechanical Specifications

Pressurizable	Yes
Volume feet (liters)	1.70 (158.00)
Weight lb/ft (kg/m)	0.63 (0.94)
Tensile Strength lb (kg)	1300.00 (590.00)
Flat PlateCrush Strength lb/in (kg/mm)	125.00 (2.20)
Minimum Bending Radius in (mm)	15.00 (380.00)
Bending Moment lb-ft (N-m)	36.00 (48.80)
Number of Bends minimum (typical)	15.00 (40.00)

Electrical Specifications

Cable Impedance (ohms)	50.00
Maximum Frequency (GHz)	3.30
Velocity percentage	89.00
Peak Power Rating (kW)	205.00
DC Resistance Inner ohms/1000ft (ohms/1000m)	0.22 (0.72)
DC Resistance Outer ohms/1000ft (ohms/1000m)	0.19 (0.62)
Cable Test Voltage (VDC)	9000.00
Jacket Spark volts (RMS)	10000.00
Capacitance pF/ft (pF/m)	22.90 (75.10)
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	Polyethelyne
Jacket Material	Polyethelyne
Outer Conductor Material	Corrugated Copper
Inner Conductor Material	Copper Tube

Dimensions

Diameter Over Jacket in (mm)	1.55 (39.40)
Outer Conductor Outside Diameter in (mm)	1.41 (35.80)
Outer Conductor Inside Diameter in (mm)	1.38 (35.10)
Inner Conductor Outside Diameter in (mm)	0.52 (13.20)
Inner Conductor Inside Diameter in (mm)	0.46 (11.70)

Customer Support Center:
From North America: 1-800-255-1479
International: +1-708-873-2307
www.andrew.com

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Connectors

Part Number	Connector Type	Special Characteristics	Inner Contact Attachment	Grade
L46F	F Flange Male	N/A	Self-Tapping	Standard
L46R	1-5/8 EIA Flange	N/A	Self-Tapping	Standard
L46S	7/8 EIA Flange	N/A	Self-Tapping	Standard
L6PDF-BH	7-16 DIN Female	Bulkhead	Self-Tapping	Plated
L6PDF-RC	7-16 DIN Female	Ring Flare	Captivated	Plated
L6PDF-RPC	7-16 DIN Female	One Piece	Captivated	Plated
L6PDM-RPC	7-16 DIN Male	One Piece	Captivated	Plated
L6PNF	N Female	N/A	Solder	Plated
L6PNF-RC	N Female	Ring Flare	Captivated	Plated
L6PNF-RPC	N Female	One Piece	Captivated	Plated
L6PNM-RPC	N Male	One Piece	Captivated	Plated
L6TDF-PS	7-16 DIN Female	Ring Flare	Captivated	Plated

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Performance

Frequency (MHz)	Attenuation (dB/100 ft)	Attenuation (dB/100 m)	Average Power (kW)
0.5	0.016	0.053	180.6
1	0.023	0.075	127.5
1.5	0.028	0.092	103.9
2	0.033	0.107	89.9
10	0.074	0.241	39.8
20	0.105	0.344	27.9
30	0.129	0.423	22.7
50	0.168	0.552	17.4
88	0.226	0.741	13
100	0.242	0.793	12.1
108	0.252	0.826	11.6
150	0.299	0.983	9.77
174	0.324	1.06	9.03
200	0.349	1.15	8.38
300	0.435	1.43	6.73
400	0.51	1.67	5.74
450	0.544	1.79	5.38
500	0.577	1.89	5.08
512	0.584	1.92	5.01
600	0.639	2.1	4.58
700	0.697	2.29	4.2
800	0.752	2.47	3.89
824	0.764	2.51	3.83
894	0.801	2.63	3.65
960	0.834	2.74	3.51
1000	0.854	2.8	3.43
1250	0.973	3.19	3.01
1500	1.08	3.55	2.7
1700	1.17	3.83	2.51
2000	1.29	4.22	2.28
2300	1.4	4.59	2.09
3000	1.65	5.41	1.78
3300	1.75	5.74	1.67

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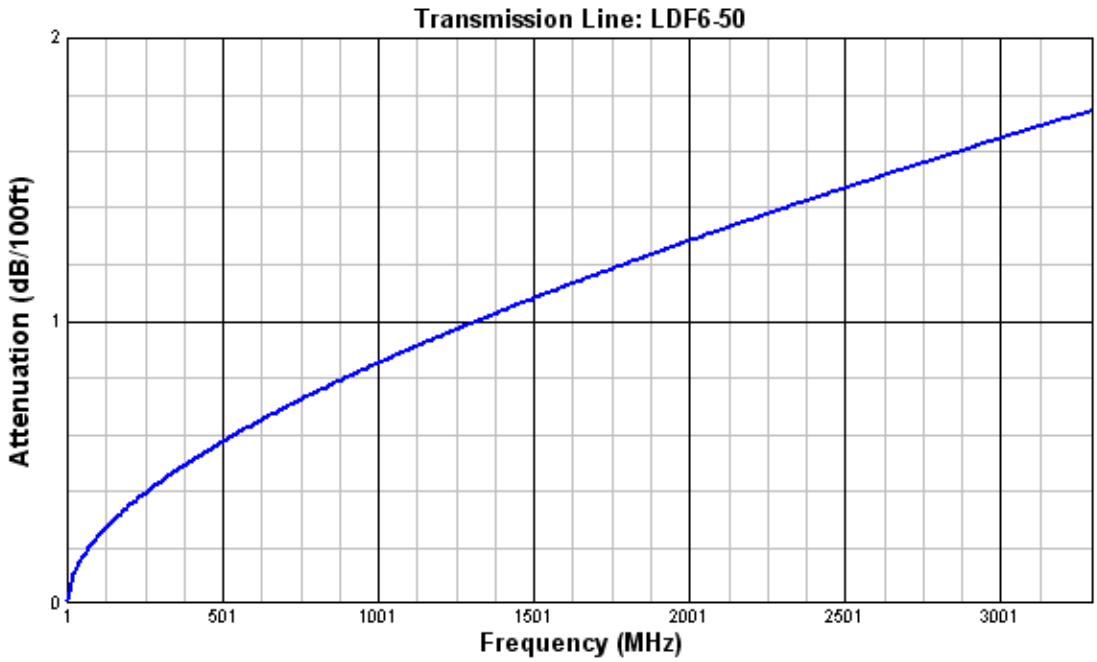

Standard Conditions:
For Attenuation. VSWR 1.0, ambient temperature 20ºC (68ºF).
For Average Power. VSWR 1.0, ambient temperature 40ºC (104ºF), inner conductor temperature 100ºC (212ºF); no solar loading.

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