



Coaxial Cable

PRODUCT SPECIFICATION

LDF5-50A

Standard coaxial cable, 7/8", 50 ohm foam HELIAX (Wideband from 0.5-5000 MHz)

CHARACTERISTICS

Mechanical Specifications

Pressurizable:	No
Weight (lb/ft):	0.33
Weight (kg/m):	0.49
Tensile Strength (lb):	325.00
Tensile Strength (kg):	147.00
Flat Plate Crush Strength (lb/in):	80.00
Flat Plate Crush Strength (kg/mm):	1.40
Minimum Bending Radius (inches):	10.00
Minimum Bend Radius (millimeters):	250.00
Bending Moment (lb-ft):	12.00
Bending Moment (N-m):	16.30
Number of Bends (minimum):	15.00
Number of Bends (typical):	50.00

Electrical Specifications

Cable Impedance (ohms):	50.00
Maximum Frequency (GHz):	5.00
Velocity percentage:	89.00
Peak Power Rating (kW):	91.00
DC Resistance Inner (ohms/1000ft):	0.32
DC Resistance Inner (ohms/1000m):	1.05
DC Resistance Outer (ohms/1000ft):	0.36
DC Resistance Outer (ohms/1000m):	1.18
Cable Test Voltage (VDC):	6000.00
Jacket Spark volts (RMS):	8000.00
Capacitance (pF/ft):	22.80
Capacitance (pF/m):	74.80
Inductance (microH/ft):	0.06
Inductance (microH/m):	0.20
Insulation Resistance (Meg-Ohms):	100000.00

Construction Materials

Dielectric Type:	Low Density Foam Dielectric
Dielectric Material:	Ployethylene Foam
Jacket Color:	Black
Jacket Description:	Polyethelyne

Customer Support Center:

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

www.andrew.com

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CHARACTERISTICS

Jacket Material:	Polyethylene
Outer Conductor Material:	Corrugated Copper
Inner Conductor Material:	Copper Tube

Dimensions

Diameter Over Jacket (inches):	1.08
Diameter Over Jacket (millimeters):	27.40
Outer Conductor Outside Diameter (inches):	0.98
Outer Conductor Outside Diameter (millimeters):	24.90
Outer Conductor Inside Diameter (inches):	0.96
Outer Conductor Inside Diameter (millimeters):	24.40
Inner Conductor Outside Diameter (inches):	0.36
Inner Conductor Outside Diameter (millimeters):	9.10
Inner Conductor Inside Diameter (inches):	0.30
Inner Conductor Inside Diameter (millimeters):	7.60

General Specifications

Cable Grade:	Standard
NEC Classification Type:	N/A
Nominal Size (inches):	7/8
Short Description:	7/8" 50 ohm HELIX foam coaxial cable

Available Connectors

Part Number	Connector Type	Special Characteristics	Inner Contact	Grade
124800-1	7/8 EIA Flange	Right Angle	N/A	Standard
48041	F Flange Female	N/A	Self-Tapping	Standard
L45F	F Flange Male	N/A	Self-Tapping	Standard
L45R	7/8 EIA Flange	N/A	Self-Tapping	Standard
L5PDF-BH	7-16 DIN Female	Bulkhead	Self-Tapping	Plated
L5PDF-PM	7-16 DIN Female	Panel Mount	Self-Tapping	Plated
L5PDF-RC	7-16 DIN Female	Ring Flare	Captivated	Plated
L5PDF-RPC	7-16 DIN Female	One Piece	Captivated	Plated
L5PDM-RC	7-16 DIN Male	Ring Flare	Captivated	Plated
L5PDM-RPC	7-16 DIN Male	One Piece	Captivated	Plated
L5PDR	7-16 DIN Male	Right Angle	Self-Tapping	Plated
L5PNF-RC	N Female	Ring Flare	Captivated	Plated
L5PNF-RPC	N Female	One Piece	Captivated	Plated
L5PNM-RC	N Male	Ring Flare	Captivated	Plated

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L5PNM-RPC	N Male	One Piece	Captivated	Plated
Attenuation and Average Power Ratings				
Frequency (MHz)	Attenuation (dB/100ft)	Attenuation (dB/100m)	Average Power (kW)	
0.5	0.025	0.081	91.00	
1	0.035	0.115	79.19	
1.5	0.043	0.141	64.60	
2	0.050	0.163	55.89	
10	0.112	0.366	24.81	
20	0.159	0.521	17.44	
30	0.195	0.641	14.18	
50	0.254	0.833	10.91	
88	0.340	1.116	8.14	
100	0.364	1.193	7.62	
108	0.378	1.242	7.32	
150	0.449	1.475	6.16	
174	0.486	1.594	5.70	
200	0.523	1.716	5.30	
300	0.649	2.130	4.27	
400	0.758	2.486	3.66	
450	0.808	2.650	3.43	
500	0.855	2.806	3.24	
512	0.866	2.842	3.20	
600	0.945	3.100	2.93	
700	1.029	3.374	2.69	
800	1.107	3.633	2.50	
824	1.126	3.693	2.46	
860	1.153	3.782	2.40	
894	1.178	3.865	2.35	
960	1.226	4.022	2.26	
1000	1.254	4.115	2.21	
1250	1.423	4.667	1.95	
1500	1.578	5.178	1.76	
1640	1.661	5.450	1.67	
1700	1.696	5.564	1.63	
1800	1.753	5.751	1.58	
2000	1.863	6.114	1.49	

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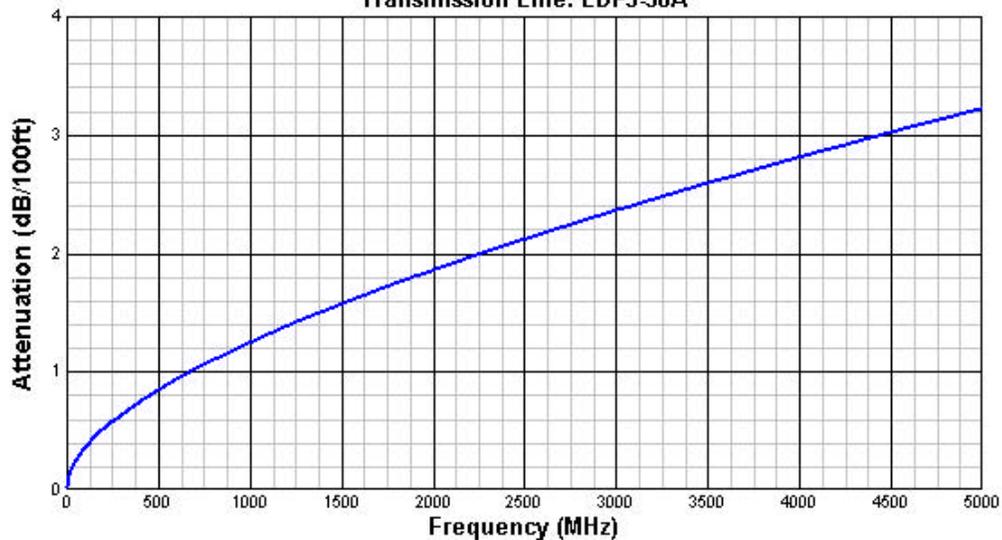
Standard coaxial cable, 7/8", 50 ohm foam HELIAX (Wideband from 0.5-5000 MHz)

CHARACTERISTICS

Attenuation and Average Power Ratings

Frequency (MHz)	Attenuation (dB/100ft)	Attenuation (dB/100m)	Average Power (kW)
2100	1.917	6.290	1.44
2200	1.970	6.463	1.41
2300	2.022	6.634	1.37
2500	2.124	6.968	1.30
2700	2.223	7.292	1.25
3000	2.366	7.764	1.17
3300	2.506	8.220	1.11
3400	2.551	8.369	1.09
4000	2.815	9.234	0.98
4900	3.188	10.458	0.87
5000	3.228	10.589	0.86

Transmission Line: LDF5-50A



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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