

PRODUCT SPECIFICATION

LDF4-50A

Standard coaxial cable, 1/2", 50 ohm foam HELIAX (Wideband from 0.5-8800 MHz)

CHARACTERISTICS

Mechanical Specifications	
Pressurizable:	No
Weight (lb/ft):	0.15
Weight (kg/m):	0.22
Tensile Strength (lb):	250.00
Tensile Strength (kg):	113.00
Flat PlateCrush Strength (lb/in):	110.00
Flat Plate Crush Strength (kg/mm):	2.00
Minimum Bending Radius (inches):	5.00
Minimum Bend Radius (millimeters):	125.00
Bending Moment (lb-ft):	2.80
Bending Moment (N-m):	3.80
Number of Bends (minimum):	15.00
Number of Bends (typical):	50.00
lectrical Specifications	
Cable Impedance (ohms):	50.00
Maximum Frequency (GHz):	8.80
Velocity percentage:	88.00
Peak Power Rating (kW):	40.00
DC Resistance Inner (ohms/1000ft):	0.45
DC Resistance Inner (ohms/1000m):	1.48
DC Resistance Outer (ohms/1000ft):	0.58
DC Resistance Outer (ohms/1000m):	1.90
Cable Test Voltage (VDC):	4000.00
Jacket Spark volts (RMS):	8000.00
Capacitance (pF/ft):	23.10
Capacitance (pF/m):	75.80
Inductance (microH/ft):	0.06
Inductance (microH/m):	0.20
Insulation Resistance (Meg-Ohms):	100000.00
Construction Materials	
Dielectric Type:	Low Density Foam Dielectric
Distantia Materiali	

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

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Jacket Material:			Polyethelyne		
Outer Conductor Material:		Corrugated Copper			
Inner Conductor Material:		Copper-Clad Aluminum Wire			
Dimensions					
Diameter Over Ja	acket (inches):		0.62		
	Diameter Over Jacket (millimeters):		15.70		
Outer Conductor	Outer Conductor Outside Diameter (inches):		0.55		
Outer Conductor Outside Diameter (millimeters):		14.00			
Outer Conductor	Outer Conductor Inside Diameter (inches):		0.53	0.53	
Outer Conductor	Outer Conductor Inside Diameter (millimeters):		13.50		
Inner Conductor	Outside Diameter (inch	es):	0.19		
Inner Conductor	Outside Diameter (milli	meters):	4.80		
General Specific	cations				
Cable Grade:		Standard	Standard		
NEC Classification Type:		N/A			
Nominal Size (inches):		1/2			
Short Description:		1/2" 50 ohm HELIAX foam coaxial cat			
Available Conne	ctors				
Part Number	Connector Type	Special Characteristics	Inner Contact	Grade	
124990-1	7/8 EIA Flange	Right Angle	N/A	Standard	
209865	F Flange Female	N/A	Solder	Standard	
L44F	F Flange Male	N/A	Solder	Standard	
L44J	HN Male	N/A	Solder	Standard	
L44M	LC Male	N/A	Solder	Standard	
L44NT	TNC Female	N/A	Solder	Standard	
L44P	UHF Male	N/A	Solder	Standard	
L44R	7/8 EIA Flange	N/A	Solder	Standard	
L44U	UHF Female	N/A	Solder	Standard	
L4PDF	7-16 DIN Female	N/A	Solder	Plated	
L4PDF-A	7-16 DIN Female	N/A	Solder	Plated	
L4PDF-BH	7-16 DIN Female	Bulkhead	Solder	Plated	
L4PDF-PM	7-16 DIN Female	Panel Mount	Solder	Plated	
L4PDF-RC	7-16 DIN Female	Ring Flare	Captivated	Plated	
L4PDM	7-16 DIN Male	N/A	Solder	Plated	
L4PDM-A	7-16 DIN Male	N/A	Solder	Plated	

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L4PDM-RC	7-16 DIN Male	Ring Flare	Captivated	Plated	
L4PDR	7-16 DIN Male	Right Angle	Solder	Plated	
L4PDR-C	7-16 DIN Male	Right Angle	Captivated	Plated	
L4PNF	N Female	N/A	Solder	Plated	
L4PNF-A	N Female	N/A	Solder	Plated	
L4PNF-BH	N Female	Bulkhead	Solder	Plated	
L4PNF-PM	N Female	Panel Mount	Solder	Plated	
L4PNF-RC	N Female	Ring Flare	Captivated	Plated	
L4PNM-H	N Male	Hex Head	Solder	Plated	
L4PNM-HA	N Male	Hex Head	Solder	Plated	
L4PNM-RC	N Male	Ring Flare	Captivated	Plated	
L4PNR-H	N Male	Right Angle	Solder	Plated	
L4PNR-HC	N Male	Right Angle	Captivated	Plated	

Attenuation and Average Power Ratings

Frequency (MHz)	Attenuation (dB/100ft)	Attenuation (dB/100m)	Average Power (kW)
0.5	0.045	0.149	40.00
1	0.064	0.211	36.11
1.5	0.079	0.259	29.46
2	0.091	0.299	25.50
10	0.205	0.672	11.35
20	0.291	0.954	7.99
30	0.357	1.172	6.51
50	0.463	1.520	5.02
38	0.619	2.031	3.76
100	0.661	2.168	3.52
108	0.688	2.256	3.38
150	0.815	2.673	2.85
174	0.880	2.887	2.64
200	0.946	3.103	2.46
300	1.169	3.835	1.99
400	1.360	4.462	1.71
150	1.447	4.748	1.61
500	1.530	5.021	1.52
512	1.550	5.085	1.50
600	1.686	5.533	1.38
700	1.831	6.009	1.27

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Frequency (MHz)	Attenuation (dB/100ft)	Attenuation (dB/100m)	Average Power (kW
800	1.968	6.456	1.18
824	1.999	6.559	1.16
860	2.046	6.712	1.14
894	2.089	6.855	1.11
960	2.171	7.124	1.07
1000	2.220	7.283	1.05
1250	2.507	8.225	0.93
1500	2.771	9.092	0.84
1640	2.911	9.551	0.80
1700	2.970	9.743	0.78
1800	3.066	10.057	0.76
2000	3.251	10.666	0.72
2100	3.341	10.960	0.70
2200	3.429	11.250	0.68
2300	3.516	11.534	0.66
2500	3.685	12.089	0.63
2700	3.849	12.627	0.60
3000	4.086	13.406	0.57
3300	4.315	14.156	0.54
3400	4.389	14.400	0.53
4000	4.820	15.814	0.48
4900	5.425	17.797	0.43
5000	5.489	18.009	0.42
5200	5.617	18.429	0.41
5300	5.680	18.636	0.41
5600	5.868	19.251	0.40
6000	6.113	20.054	0.38
6100	6.173	20.252	0.38
6600	6.469	21.224	0.36
8000	7.262	23.824	0.32
8800	7.694	25.243	0.30

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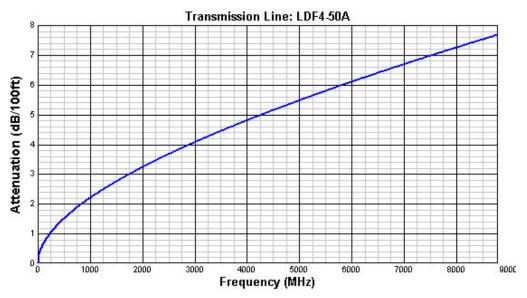


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Standard Conditions:

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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