

# L2A-PNMNM-50M

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LDF2-50 SureFlex® Jumper with interface types N Male and N Male,  
50m



## Product Classification

<b>Product Type</b>	SureFlex® standard
<b>Product Series</b>	LDF2-50

## General Specifications

<b>Body Style, Connector A</b>	Straight
<b>Body Style, Connector B</b>	Straight
<b>Interface, Connector A</b>	N Male
<b>Interface, Connector B</b>	N Male
<b>Specification Sheet Revision Level</b>	A

## Dimensions

<b>Length</b>	50 m   164.042 ft
<b>Nominal Size</b>	3/8 in

## VSWR/Return Loss

<b>Frequency Band</b>	<b>VSWR</b>	<b>Return Loss (dB)</b>
<b>700–3000 MHz</b>	1.44	15

## Jumper Assembly Sample Label

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## Environmental Specifications

### Immersion Test Method

Meets IEC 60529:2001, IP68 in mated condition

## Included Products

LDF2-50

- LDF2-50, HELIAX® Low Density Foam Coaxial Cable, corrugated copper, 3/8 in, black PE jacket

# LDF2-50

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LDF2-50, HELIAX® Low Density Foam Coaxial Cable, corrugated copper, 3/8 in, black PE jacket



## Product Classification

<b>Product Type</b>	Coaxial wireless cable
<b>Product Brand</b>	HELIAX®   SureFlex®
<b>Product Series</b>	LDF2-50

## General Specifications

<b>Flexibility</b>	Standard
<b>Jacket Color</b>	Black
<b>Performance Note</b>	Attenuation values typical, guaranteed within 5%

## Dimensions

<b>Diameter Over Dielectric</b>	8.636 mm   0.34 in
<b>Diameter Over Jacket</b>	11.176 mm   0.44 in
<b>Inner Conductor OD</b>	3.048 mm   0.12 in
<b>Outer Conductor OD</b>	9.652 mm   0.38 in
<b>Nominal Size</b>	3/8 in

## Electrical Specifications

<b>Cable Impedance</b>	50 ohm ±1 ohm
<b>Capacitance</b>	75.5 pF/m   23.012 pF/ft
<b>dc Resistance, Inner Conductor</b>	3.478 ohms/km   1.06 ohms/kft
<b>dc Resistance, Outer Conductor</b>	2.854 ohms/km   0.87 ohms/kft
<b>dc Test Voltage</b>	2500 V
<b>Inductance</b>	0.19 µH/m   0.058 µH/ft
<b>Insulation Resistance</b>	100000 MOhms-km

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<b>Jacket Spark Test Voltage (rms)</b>	5000 V
<b>Operating Frequency Band</b>	1 – 13000 MHz
<b>Peak Power</b>	15.6 kW
<b>Velocity</b>	85 %

## Attenuation

<b>Frequency (MHz)</b>	<b>Attenuation (dB/100 m)</b>	<b>Attenuation (dB/100 ft)</b>	<b>Average Power (kW)</b>
1.0	0.332	0.101	15.6
1.5	0.407	0.124	15.6
2.0	0.471	0.143	15.6
10.0	1.059	0.323	7.28
20.0	1.503	0.458	5.13
30.0	1.847	0.563	4.17
50.0	2.397	0.73	3.22
85.0	3.146	0.959	2.45
88.0	3.203	0.976	2.41
100.0	3.421	1.043	2.25
108.0	3.559	1.085	2.17
150.0	4.219	1.286	1.83
174.0	4.558	1.389	1.69
200.0	4.901	1.494	1.57
204.0	4.952	1.509	1.56
300.0	6.062	1.847	1.27
400.0	7.057	2.151	1.09
450.0	7.513	2.29	1.03
460.0	7.601	2.317	1.01
500.0	7.947	2.422	0.97
512.0	8.048	2.453	0.96
600.0	8.761	2.67	0.88
700.0	9.519	2.901	0.81
800.0	10.232	3.119	0.75
824.0	10.398	3.169	0.74
894.0	10.869	3.313	0.71
960.0	11.299	3.444	0.68
1000.0	11.554	3.521	0.67

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<b>1218.0</b>	12.874	3.924	0.6
<b>1250.0</b>	13.059	3.98	0.59
<b>1500.0</b>	14.446	4.403	0.53
<b>1700.0</b>	15.49	4.721	0.5
<b>1794.0</b>	15.964	4.866	0.48
<b>1800.0</b>	15.994	4.875	0.48
<b>2000.0</b>	16.97	5.172	0.45
<b>2100.0</b>	17.443	5.316	0.44
<b>2200.0</b>	17.908	5.458	0.43
<b>2300.0</b>	18.365	5.597	0.42
<b>2500.0</b>	19.257	5.869	0.4
<b>2700.0</b>	20.122	6.133	0.38
<b>3000.0</b>	21.376	6.515	0.36
<b>3400.0</b>	22.978	7.003	0.34
<b>3600.0</b>	23.754	7.24	0.32
<b>3700.0</b>	24.136	7.356	0.32
<b>3800.0</b>	24.514	7.471	0.31
<b>3900.0</b>	24.888	7.586	0.31
<b>4000.0</b>	25.26	7.699	0.31
<b>4100.0</b>	25.627	7.811	0.3
<b>4200.0</b>	25.992	7.922	0.3
<b>4300.0</b>	26.354	8.032	0.29
<b>4400.0</b>	26.713	8.142	0.29
<b>4500.0</b>	27.069	8.25	0.28
<b>4600.0</b>	27.422	8.358	0.28
<b>4700.0</b>	27.773	8.465	0.28
<b>4800.0</b>	28.12	8.571	0.27
<b>4900.0</b>	28.466	8.676	0.27
<b>5000.0</b>	28.809	8.781	0.27
<b>6000.0</b>	32.121	9.79	0.24
<b>8000.0</b>	38.244	11.656	0.2
<b>8800.0</b>	40.551	12.359	0.19
<b>10000.0</b>	43.894	13.378	0.18
<b>12000.0</b>	49.209	14.998	0.16

## Material Specifications

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<b>Dielectric Material</b>	Foam PE
<b>Jacket Material</b>	PE
<b>Inner Conductor Material</b>	Copper-clad aluminum wire
<b>Outer Conductor Material</b>	Corrugated copper

## Mechanical Specifications

<b>Minimum Bend Radius, multiple Bends</b>	95.25 mm   3.75 in
<b>Minimum Bend Radius, single Bend</b>	40.64 mm   1.6 in
<b>Number of Bends, minimum</b>	15
<b>Number of Bends, typical</b>	50
<b>Tensile Strength</b>	113 kg   249.122 lb
<b>Bending Moment</b>	1.9 N-m   16.816 in lb
<b>Flat Plate Crush Strength</b>	2 kg/mm   111.995 lb/in

## Environmental Specifications

<b>Installation temperature</b>	-40 °C to +60 °C (-40 °F to +140 °F)
<b>Operating Temperature</b>	-55 °C to +85 °C (-67 °F to +185 °F)
<b>Storage Temperature</b>	-70 °C to +85 °C (-94 °F to +185 °F)
<b>Attenuation, Ambient Temperature</b>	68 °F   20 °C
<b>Average Power, Ambient Temperature</b>	104 °F   40 °C
<b>Average Power, Inner Conductor Temperature</b>	212 °F   100 °C

## Packaging and Weights

<b>Cable weight</b>	0.12 kg/m   0.081 lb/ft
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## Regulatory Compliance/Certifications

<b>Agency</b>	<b>Classification</b>
CHINA-ROHS	Below maximum concentration value
ISO 9001:2015	Designed, manufactured and/or distributed under this quality management system
REACH-SVHC	Compliant as per SVHC revision on <a href="http://www.commscope.com/ProductCompliance">www.commscope.com/ProductCompliance</a>
ROHS	Compliant

