L2A-PNMNM-1M

LDF2-50 SureFlex® Jumper with interface types N Male and N Male, 1 m



Product Classification

Product Type SureFlex® standard

Product Brand HELIAX® | SureFlex®

Product Series LDF2-50

General Specifications

Body Style, Connector AStraightBody Style, Connector BStraightInterface, Connector AN MaleInterface, Connector BN Male

Specification Sheet Revision Level A

Dimensions

Length 1 m | 3.281 ft

Nominal Size 3/8 in

VSWR/Return Loss

Frequency Band VSWR Return Loss (dB)

700–3000 MHz 1.33 17

Jumper Assembly Sample Label



L2A-PNMNM-1M



Environmental Specifications

Immersion Test MethodMeets IEC 60529:2001, IP68 in mated condition

Regulatory Compliance/Certifications

Agency	Classification
Adency	Classification

ISO 9001:2015 Designed, manufactured and/or distributed under this quality management system

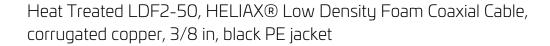
Included Products

35422-23 – Heat Treated LDF2-50, HELIAX® Low Density Foam Coaxial Cable, corrugated copper, 3/8 in,

black PE jacket

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





Product Classification

entities.

 Product Type
 Coaxial wireless cable

 Product Brand
 HELIAX® | SureFlex®

Product Series LDF2-50

General Specifications

Flexibility Standard

Jacket Color Black

Performance NoteAttenuation values typical, guaranteed within 5%

Dimensions

 Diameter Over Dielectric
 8.636 mm | 0.34 in

 Diameter Over Jacket
 11.176 mm | 0.44 in

 Inner Conductor OD
 3.048 mm | 0.12 in

 Outer Conductor OD
 9.652 mm | 0.38 in

Nominal Size 3/8 in

Electrical Specifications

Cable Impedance 50 ohm ±1 ohm

Capacitance 75.5 pF/m | 23.012 pF/ft

dc Resistance, Inner Conductor3.478 ohms/km | 1.06 ohms/kftdc Resistance, Outer Conductor2.854 ohms/km | 0.87 ohms/kft

dc Test Voltage 2500 V

Inductance 0.19 μ H/m | 0.058 μ H/ft

Insulation Resistance 100000 MOhms-km

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35422-23

Jacket Spark Test Voltage (rms) 5000 V

Operating Frequency Band 1 – 13000 MHz

Attenuation

Frequency (MHz)	Attenuation (dB/100 m)	Attenuation (dB/100 ft)	Average Power (kW)
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

COMMSCOPE®

35422-23

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

Material Specifications



35422-23

Dielectric Material Foam PE

Jacket Material PE

Inner Conductor Material Copper-clad aluminum wire

Outer Conductor Material Corrugated copper

Mechanical Specifications

Minimum Bend Radius, multiple Bends95.25 mm3.75 inMinimum Bend Radius, single Bend40.64 mm1.6 in

Number of Bends, minimum 15 Number of Bends, typical 50

 Tensile Strength
 113 kg | 249.122 lb

 Bending Moment
 1.9 N-m | 16.816 in lb

 Flat Plate Crush Strength
 2 kg/mm | 111.995 lb/in

Environmental Specifications

Installation temperature-40 °C to +60 °C (-40 °F to +140 °F)Operating Temperature-55 °C to +85 °C (-67 °F to +185 °F)Storage Temperature-70 °C to +85 °C (-94 °F to +185 °F)

Attenuation, Ambient Temperature68 °F | 20 °CAverage Power, Ambient Temperature104 °F | 40 °CAverage Power, Inner Conductor Temperature212 °F | 100 °C

Packaging and Weights

Cable weight 0.12 kg/m | 0.081 lb/ft

Regulatory Compliance/Certifications

Agency Classification

ISO 9001:2015 Designed, manufactured and/or distributed under this quality management system





Product Classification

entities.

 Product Type
 Coaxial wireless cable

 Product Brand
 HELIAX® | SureFlex®

Product Series LDF2-50

General Specifications

Product Number 520098202/00 | SZ520098202/00

Flexibility Standard

Jacket Color Black

Performance NoteAttenuation values typical, guaranteed within 5%

Dimensions

 Diameter Over Dielectric
 8.636 mm | 0.34 in

 Diameter Over Jacket
 11.176 mm | 0.44 in

 Inner Conductor OD
 3.124 mm | 0.123 in

 Outer Conductor OD
 9.652 mm | 0.38 in

Nominal Size 3/8 in

Electrical Specifications

Cable Impedance50 ohm ±1 ohm

Capacitance 75.5 pF/m | 23.012 pF/ft

dc Resistance, Inner Conductor3.478 ohms/km | 1.06 ohms/kftdc Resistance, Outer Conductor2.854 ohms/km | 0.87 ohms/kft

dc Test Voltage 2500 V

Inductance $0.19 \,\mu\text{H/m} \,\mid\, 0.058 \,\mu\text{H/ft}$



Insulation Resistance 100000 MOhms-km

Jacket Spark Test Voltage (rms) 5000 V

Operating Frequency Band 1 – 13000 MHz

 Peak Power
 15.6 kW

 Velocity
 85 %

Attenuation

Frequency (MHz)	Attenuation (dB/100 m)	Attenuation (dB/100 ft)	Average Power (kW)
1.0	0.332	0.101	15.6
1.5	0.407	0.124	15.6
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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
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Packaging and Weights

Cable weight 0.12 kg/m | 0.081 lb/ft

Regulatory Compliance/Certifications

Agency	Classification
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 www.commscope.com/ProductCompliance
ROHS	Compliant
UK-ROHS	Compliant





