# L2-PSMSM-3M5-HF

LDF2-50 Jumper with interface types SMA Male and SMA Male, 3.5 M



#### **Product Classification**

**Product Type** Wireless transmission cable assembly

Product Brand HELIAX®
Product Series LDF2-50

## General Specifications

Body Style, Connector AStraightBody Style, Connector BStraightInterface, Connector ASMA MaleInterface, Connector BSMA Male

**Specification Sheet Revision Level** A

#### **Dimensions**

**Length** 3.5 m | 11.483 ft

Nominal Size 3/8 in

### VSWR/Return Loss

Frequency Band VSWR Return Loss (dB)

**45–13000 MHz** 1.58 13

Jumper Assembly Sample Label



# L2-PSMSM-3M5-HF



## **Environmental Specifications**

**Immersion Test Method** 

Meets IEC 60529:2001, IP68 in mated condition

## Regulatory Compliance/Certifications

Agency

Classification

ISO 9001:2015

Designed, manufactured and/or distributed under this quality management system

#### Included Products

LDF2-50

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



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

**Product Number** 520098202/00 | SZ520098202/00

Flexibility Standard

Jacket Color Black

**Performance Note**Attenuation 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  $\mu$ H/m | 0.058  $\mu$ H/ft

COMMSCOPE®

**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
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
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 Specifications

**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 $-40 \, ^{\circ}\text{C}$  to  $+60 \, ^{\circ}\text{C}$  ( $-40 \, ^{\circ}\text{F}$  to  $+140 \, ^{\circ}\text{F}$ )Operating Temperature $-55 \, ^{\circ}\text{C}$  to  $+85 \, ^{\circ}\text{C}$  ( $-67 \, ^{\circ}\text{F}$  to  $+185 \, ^{\circ}\text{F}$ )Storage Temperature $-70 \, ^{\circ}\text{C}$  to  $+85 \, ^{\circ}\text{C}$  ( $-94 \, ^{\circ}\text{F}$  to  $+185 \, ^{\circ}\text{F}$ )

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
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





Page 7 of 7

