## L4A-HPHMDM-10M

LDF4-50A SureFlex® Jumper with interface types 4.3-10 Male and 7-16 DIN Male, 10 M

#### Product Classification

Product Type	SureFlex® HP, HELIAX® performance
Product Series	LDF4-50A
General Specifications	
Body Style, Connector A	Straight
Body Style, Connector B	Straight
Interface, Connector A	4.3-10 Male
Interface, Connector B	7-16 DIN Male
Specification Sheet Revision Level	А
Dimensions	
Length	10 m   32.808 ft
Nominal Size	1/2 in
Electrical Specifications	
3rd Order IMD Static Test Method	Two +43 dBm carriers
3rd Order IMD, typical	-116 dBm
DTF, Connector A	-34 dB
DTF, Connector B	-34 dB

#### VSWR/Return Loss

Frequency Band	VSWR, typical	Return Loss, typical (dB)
680–960 MHz	1.083	27.99
1700–2200 MHz	1.083	27.99
2200–2700 MHz	1.106	25.96

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# L4A-HPHMDM-10M

### Jumper Assembly Sample Label



#### **Environmental Specifications**

**Immersion Test Method** 

Meets IEC 60529:2001, IP68 in mated condition

#### Regulatory Compliance/Certifications

Classification

#### Agency

ISO 9001:2015

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



#### Included Products

LDF4-50A

LDF4-50A, HELIAX® Low Density Foam Coaxial Cable, corrugated copper, 1/2 in, black PE jacket (Halogen free jacketing non-fire-retardant)

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LDF4-50A, HELIAX® Low Density Foam Coaxial Cable, corrugated copper, 1/2 in, black PE jacket (Halogen free jacketing non-fire-retardant)

#### Product Classification

dc Test Voltage

Inductance

Product Type Coaxial wireless cable **Product Brand HELIAX® Product Series** LDF4-50A **Ordering Note** CommScope® standard product (Global) General Specifications Flexibility Standard Black Jacket Color Performance Note Attenuation values typical, guaranteed within 5% Dimensions **Diameter Over Dielectric** 12.954 mm | 0.51 in **Diameter Over Jacket** 15.875 mm | 0.625 in **Inner Conductor OD** 4.826 mm | 0.19 in 13.97 mm | 0.55 in **Outer Conductor OD Nominal Size** 1/2 in **Electrical Specifications Cable Impedance** 50 ohm ±1 ohm 75.8 pF/m | 23.104 pF/ft Capacitance dc Resistance, Inner Conductor 1.48 ohms/km | 0.451 ohms/kft dc Resistance, Outer Conductor 1.9 ohms/km | 0.579 ohms/kft

4000 V

0.19 µH/m | 0.058 µH/ft

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Insulation Resistance	100000 MOhms-km
Jacket Spark Test Voltage (rms)	8000 V
Operating Frequency Band	1 – 8800 MHz
Peak Power	40 kW
Velocity	88 %

### VSWR/Return Loss

Frequency Band	VSWR	Return Loss (dB)
680-800 MHz	1.13	24.3
800–960 MHz	1.13	24.3
1700–2200 MHz	1.13	24.3
2300–2700 MHz	1.13	24.3

#### Attenuation

Frequency (MHz)	Attenuation (dB/100 m)	Attenuation (dB/100 ft)	Average Power (kW)
1.0	0.211	0.064	36.11
1.5	0.259	0.079	29.46
2.0	0.299	0.091	25.5
10.0	0.672	0.205	11.35
20.0	0.954	0.291	7.99
30.0	1.172	0.357	6.51
50.0	1.521	0.463	5.02
85.0	1.995	0.608	3.82
88.0	2.031	0.619	3.76
100.0	2.169	0.661	3.52
108.0	2.256	0.688	3.38
150.0	2.673	0.815	2.85
174.0	2.887	0.88	2.64
200.0	3.103	0.946	2.46
204.0	3.135	0.956	2.43
300.0	3.835	1.169	1.99
400.0	4.462	1.36	1.71
450.0	4.749	1.447	1.61
460.0	4.804	1.464	1.59
500.0	5.021	1.53	1.52

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512.0	5.085	1.55	1.5
600.0	5.533	1.686	1.38
700.0	6.009	1.831	1.27
800.0	6.456	1.968	1.18
824.0	6.56	1.999	1.16
894.0	6.855	2.089	1.11
960.0	7.124	2.171	1.07
1000.0	7.284	2.22	1.05
1218.0	8.11	2.472	0.94
1250.0	8.226	2.507	0.93
1500.0	9.093	2.771	0.84
1700.0	9.744	2.97	0.78
1794.0	10.039	3.06	0.76
1800.0	10.058	3.066	0.76
2000.0	10.666	3.251	0.72
2100.0	10.961	3.341	0.7
2200.0	11.251	3.429	0.68
2300.0	11.535	3.516	0.66
2500.0	12.09	3.685	0.63
2700.0	12.627	3.849	0.6
3000.0	13.407	4.086	0.57
3400.0	14.401	4.389	0.53
3600.0	14.882	4.536	0.51
3700.0	15.118	4.608	0.5
3800.0	15.353	4.679	0.5
3900.0	15.585	4.75	0.49
4000.0	15.815	4.82	0.48
4100.0	16.042	4.889	0.48
4200.0	16.268	4.958	0.47
4300.0	16.492	5.027	0.46
4400.0	16.714	5.094	0.46
4500.0	16.934	5.161	0.45
4600.0	17.153	5.228	0.44
4700.0	17.37	5.294	0.44
4800.0	17.585	5.36	0.43

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4900.0	17.798	5.425	0.43
5000.0	18.01	5.489	0.42
6000.0	20.055	6.113	0.38
8000.0	23.826	7.262	0.32
8800.0	25.244	7.694	0.3

#### 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 Bends	127 mm   5 in
Minimum Bend Radius, single Bend	50.8 mm   2 in
Number of Bends, minimum	15
Number of Bends, typical	50
Tensile Strength	113 kg   249.122 lb
Bending Moment	3.8 N-m   33.633 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 Temperature	68 °F   20 °C
Average Power, Ambient Temperature	104 °F   40 °C
Average Power, Inner Conductor Temperature	212 °F   100 °C

#### Packaging and Weights

Cable weight

0.22 kg/m | 0.148 lb/ft

#### Regulatory Compliance/Certifications

Agency

Classification

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CENELEC

CHINA-ROHS

ISO 9001:2015

REACH-SVHC

ROHS



	EN 50575 compliant, Declaration of Performance (DoP) available
	Below maximum concentration value
	Designed, manufactured and/or distributed under this quality management system
	Compliant as per SVHC revision on www.commscope.com/ProductCompliance
	Compliant
R4	

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