L4A-HMDM-10M-P-SGW



LDF4-50A SureFlex® Jumper with interface types 4.3-10 Male and 7-16 DIN Male with HELIAX® SureGuard weatherproofing, 10m

- If there are threads along the entire device port length, the HELIAX® SureGuard weatherproofing solutions will only seal properly if the HSG-M29-ADPT adapter is installed on the device port
- WARNING: DO NOT MATE WITH 4.1-9.5 DIN

Product Classification	
Product Type	SureFlex® Premium, static PIM
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	-116 dBm
3rd Order IMD Static Test Method	Two +43 dBm carriers
DTF, Connector A	-34 dB
DTF, Connector B	-34 dB
VSWR/Return Loss	

VSWR/Return Loss

Frequency Band	VSWR	Return Loss (dB)
2.2–2.7 GHz	1.135	23.98
698–960 MHz	1.101	26.36
1700–2200 MHz	1.101	26.36

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_4A-HMDM-10M-P-SGW

Jumper Assembly Sample Label



Environmental Specifications

Immersion Test Method

Meets IEC 60529:2001, IP68 in mated condition

Weatherproofing Method

HELIAX® SureGuard weatherproofing boot

Packaging and Weights

Included

Weatherproofing boot

Regulatory Compliance/Certifications

Agency

Classification

ISO 9001:2015

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



Included Products

HSG-LDF4 LDF4-50A

- HELIAX® SureGuard® Boot for 1/2 in jumpers to antennas or devices
 - 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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HSG-LDF4



HELIAX® SureGuard® Boot for 1/2 in jumpers to antennas or devices

• If there are threads along the entire device port length, the HELIAX® SureGuard weatherproofing solutions will only seal properly if the HSG-M29-ADPT adapter is installed on the device port

Provides additional moisture seal for cable connections

Product Classification

Product Type

Product Brand

Ordering Note

General Specifications

Application Applications per Kit Color

Dimensions

Width Length Cable Diameter for Seal, maximum Cable Diameter for Seal, minimum Inner Diameter Nominal Size

Material Specifications

Material Type

Silicone rubber

1/2 in

Black

55 mm | 2.165 in

99 mm | 3.898 in

16.26 mm | 0.64 in

15.59 mm | 0.614 in 14.35 mm | 0.565 in

Weatherproofing boot

HELIAX® | SureGuard®

CommScope® non-standard product

One 1/2 in to antenna or device connection

Environmental Specifications

Installation temperature	-40 °C to +65 °C (-40 °F to +149 °F)
Operating Temperature	-40 °C to +85 °C (-40 °F to +185 °F)
Storage Temperature	-55 °C to +85 °C (-67 °F to +185 °F)

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HSG-LDF4

UV Resistance Test Method	ASTM G154-12a
UV Resistance, minimum with no degradation	≥1000 hours
Weather Resistance Test Method	IEC 60068-2-11 IEC 60529:2001, IP68
Packaging and Weights	
Height, packed	41 mm 1.614 in
Width, packed	120 mm 4.724 in
Length, packed	140 mm 5.512 in
Packaging quantity	1
Weight, gross	27 g 0.06 lb

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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	5 in 127 mm
Minimum Bend Radius, single Bend	2 in 50.8 mm
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 Perfor	mance (DoP) available
Below maximum concentration value	
Designed, manufactured and/or distributed	l under this quality management system
Compliant as per SVHC revision on www.c	ommscope.com/ProductCompliance
Compliant	

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