# L4A-NMDM-5M-P-SGW



#### LDF4-50A SureFlex® Jumper with interface types N Male and 7-16 DIN Male with HELIAX® SureGuard weatherproofing, 5 m

• 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

### Product Classification

Product Type	SureFlex® Premium, static PIM	
Product Brand	HELIAX®   SureFlex®	
Product Series	LDF4-50A	
General Specifications		
Body Style, Connector A	Straight	
Body Style, Connector B	Straight	
Interface, Connector A	N Male	
Interface, Connector B	7-16 DIN Male	
Specification Sheet Revision Level	В	
Dimensions		
Length	5 m   16.404 ft	
Nominal Size	1/2 in	
Electrical Specifications		
3rd Order IMD Static	-112 dBm	
3rd Order IMD Static Test Method	Two +43 dBm carriers	
DTF, Connector A	-34 dB	
DTF, Connector B	-34 dB	
VSWR/Return Loss		

### VVR/ RELUITI LUSS

Frequency Band	VSWR	Return Loss (dB)
698–960 MHz	1.065	30.04
1700–2200 MHz	1.065	30.04

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# L4A-NMDM-5M-P-SGW

2200-2700 MHz

1.106

25.96

# Jumper Assembly Sample Label



# **Environmental Specifications**

Immersion Test Method

Weatherproofing Method

Meets IEC 60529:2001, IP68 in mated condition HELIAX® SureGuard weatherproofing boot

# Packaging and Weights

Included

Weatherproofing boot

# 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.andrew.com/ProductCompliance
ROHS	Compliant
UK-ROHS	Compliant/Exempted



# Included Products

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# L4A-NMDM-5M-P-SGW

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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 (General propose cable for outdoor use only)



# 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

Product Classification	
Product Type	Weatherproofing boot
Product Brand	HELIAX®   SureGuard®
Ordering Note	ANDREW® non-standard product
General Specifications	
Application	Provides additional moisture seal for cable connections
Applications per Kit	One 1/2 in to antenna or device connection
Color	Black
Dimensions	
Width	55 mm   2.165 in
Length	99 mm   3.898 in
Cable Diameter for Seal, maximum	16.26 mm   0.64 in
Cable Diameter for Seal, minimum	15.59 mm   0.614 in
Inner Diameter	14.35 mm   0.565 in
Nominal Size	1/2 in
Material Specifications	
Material Type	Silicone rubber
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)
UV Resistance Test Method	ASTM G154-12a

UV Resistance, minimum with no degradation

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≥1000 hours

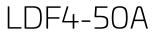
# HSG-LDF4

Weather Resistance Test Method	IEC 60068-2-11   IEC 60529:2001, IP68
Packaging and Weight	S
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 (General propose cable for outdoor use only)

#### Product Classification

Product Type	Coaxial wireless cable	
Product Brand	HELIAX®	
Product Series	LDF4-50A	
Ordering Note	ANDREW® standard product (Global)	
General Specifications		
Product Number	520094002/00   SZ520094902/00	
Flexibility	Standard	
Jacket Color	Black	
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	
Outer Conductor OD	13.97 mm   0.55 in	
Nominal Size	1/2 in	
Electrical Specifications		
Cable Impedance	50 ohm ±1 ohm	
Capacitance	75.8 pF/m   23.104 pF/ft	
dc Resistance, Inner Conductor	1.48 ohms/km   0.451 ohms/kft	
dc Resistance, Outer Conductor	2.69 ohms/km   0.82 ohms/kft	
dc Test Voltage	4000 V	
Inductance	0.19 μH/m   0.058 μH/ft	
Insulation Resistance	100000 MOhms-km	
Jacket Spark Test Voltage (rms)	8000 V	

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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
512.0	5.085	1.55	1.5
600.0	5.533	1.686	1.38

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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
4900.0	17.798	5.425	0.43
5000.0	18.01	5.489	0.42

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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
CENELEC	EN 50575 compliant, Declaration of Performance (DoP) available
CHINA-ROHS	Below maximum concentration value
ISO 9001:2015	Designed, manufactured and/or distributed under this quality management system

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REACH-SVHC

ROHS

UK-ROHS



Compliant as per SVHC revision on www.andrew.com/ProductCompliance

Compliant

Compliant

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