L4A-NMNM-40M-P-SGW



LDF4-50A SureFlex® Jumper with interface types N Male and N Male with HELIAX® SureGuard weatherproofing, 40 m

• The HELIAX® SureGuard weatherproofing will not seal properly if there are threads along the entire device port length

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	N Male
Specification Sheet Revision Level	А
Dimensions	
Length	40 m 131.234 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	

VSVVR/Return Loss

Frequency Band	VSWR	Return Loss (dB)
698–960 MHz	1.101	26.36
1700–2200 MHz	1.101	26.36

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2200-2700 MHz

1.135

23.98

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

Classification

Agency

Agency ISO 9001:2015

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

Included Products

HSG-LDF4-NM	-	HELIAX® SureGuard® Boot for Type N jumpers to antennas or devices
LDF4-50A	-	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)



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HSG-LDF4-NM



HELIAX® SureGuard® Boot for Type N jumpers to antennas or devices

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 122 mm | 4.803 in Cable Diameter for Seal, maximum 16.26 mm | 0.64 in 15.59 mm | 0.614 in **Cable Diameter for Seal, minimum Inner Diameter** 14.35 mm | 0.565 in **Nominal Size** 1/2 in Material Specifications Material Type Silicone rubber **Environmental Specifications** -40 °C to +65 °C (-40 °F to +149 °F) Installation temperature **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 ≥1000 hours

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Weather Resistance Test Method	IEC 60068-2-11 IEC 60529:2001, IP68
Packaging and Weights	
Height, packed	55 mm 2.165 in
Width, packed	120 mm 4.724 in
Length, packed	140 mm 5.512 in
Packaging quantity	1
Weight, gross	25.6 g 0.056 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 %

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
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





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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
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 PE

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LDF4-50A

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

-40 °C to +60 °C (-40 °F to +140 °F)
-55 °C to +85 °C (-67 °F to +185 °F)
-70 °C to +85 °C (-94 °F to +185 °F)
68 °F 20 °C
104 °F 40 °C
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
REACH-SVHC	Compliant as per SVHC revision on www.andrew.com/ProductCompliance
ROHS	Compliant
UK-ROHS	Compliant



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