







L4A-NMDM-30-P

LDF4-50A SureFlex® Jumper with interface types N Male and 7-16 DIN Male, 9.144 m

General Specifications

Body Style, Connector A Straight
Body Style, Connector B Straight
Cable Family LDF4-50A
Interface, Connector A N Male

Interface, Connector B 7-16 DIN Male

Nominal Size 1/2 in

Length 9.144 m | 30.000 ft

Specification Sheet Revision Level B

Electrical Specifications

3rd Order IMD Static -155.00 dBc (relative to carrier) | -112.00 dBm

3rd Order IMD Static Test Method Two +43 dBm carriers

DTF, Connector A -34.00 dB DTF, Connector B -34.00 dB

Jumper Assembly Sample Label



Return Loss/VSWR

Frequency Band	VSWR	Return Loss (dB)
698-960 MHz	1.10	26.40
1700-2200 MHz	1.10	26.40
2200-2700 MHz	1.13	24.00



L4A-NMDM-30-P

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Regulatory Compliance/Certifications

Agency

Classification

ISO 9001:2008

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

LDF4-50A-E1 — LDF4-50A-E1, HELIAX® Low Density Foam Coaxial Cable, corrugated copper, 1/2 in, black PE jacket









LDF4-50A

LDF4-50A, HELIAX® Low Density Foam Coaxial Cable, corrugated copper, 1/2 in, black PE jacket

Construction Materials

Jacket Material PE

Outer Conductor Material Corrugated copper

Dielectric Material Foam PE Flexibility Standard

Inner Conductor Material Copper-clad aluminum wire

Jacket Color Black

Dimensions

Nominal Size	1/2 in	
Cable Weight	0.15 lb/ft 0.22 kg/m	
Diameter Over Dielectric	12.954 mm 0.510 in	
Diameter Over Jacket	15.875 mm 0.625 in	
Inner Conductor OD	4.8260 mm 0.1900 in	
Outer Conductor OD	13.970 mm 0.550 in	

Electrical Specifications

Insulation Resistance

Cable Impedance	50 ohm ±1 ohm

Capacitance 23.1 pF/ft | 75.8 pF/m

dc Resistance, Inner Conductor0.450 ohms/kft| 1.480 ohms/kmdc Resistance, Outer Conductor0.820 ohms/kft| 2.690 ohms/km

dc Test Voltage 4000 V

Inductance 0.190 μ H/m | 0.058 μ H/ft

100000 Mohms•km

1 - 8800 MHz

8000 V

Jacket Spark Test Voltage (rms) Operating Frequency Band

Peak Power 40.0 kW Velocity 88%

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)

General Specifications

Brand HELIAX®

Ordering Note CommScope® standard product (Global)

Mechanical Specifications

Bending Moment	3.8 N-m	2.8 ft lb
Flat Plate Crush Strength	110.0 lb/in	2.0 kg/mm



LDF4-50A

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Minimum Bend Radius, Multiple Bends 127.00 mm | 5.00 in Minimum Bend Radius, Single Bend 50.80 mm | 2.00 in Number of Bends, minimum 15

Number of Bends, typical 50

Tensile Strength 113 kg | 250 lb

Note

Performance Note Values typical, unless otherwise stated

Standard Conditions

Attenuation, Ambient Temperature 20 °C | 68 °F Average Power, Ambient Temperature 40 °C | 104 °F Average Power, Inner Conductor Temperature 100 °C | 212 °F

Return Loss/VSWR

Frequency Band	VSWR	Return Loss (dB)
680-800 MHz	1.13	24.30
800-960 MHz	1.13	24.30
1700-2200 MHz	1.13	24.30
2300-2700 MHz	1.13	24.30

Attenuation

Frequency (MHz) 0.5	Attenuation (dB/100 m) 0.149	Attenuation (dB/100 ft) 0.045	Average Power (kW) 40.00
1	0.211	0.064	36.11
1.5	0.259	0.079	29.46
2	0.299	0.091	25.50
10	0.672	0.205	11.35
20	0.954	0.291	7.99
30	1.172	0.357	6.51
50	1.521	0.463	5.02
88	2.031	0.619	3.76
100	2.169	0.661	3.52
108	2.256	0.688	3.38
150	2.673	0.815	2.85
174	2.887	0.88	2.64
200	3.103	0.946	2.46
300	3.835	1.169	1.99
400	4.462	1.36	1.71
450	4.749	1.447	1.61
500	5.021	1.53	1.52
512	5.085	1.55	1.50
600	5.533	1.686	1.38
700	6.009	1.831	1.27
800	6.456	1.968	1.18
824	6.56	1.999	1.16
894	6.855	2.089	1.11
960	7.124	2.171	1.07
1000	7.284	2.22	1.05
1250	8.226	2.507	0.93



LDF4-50A				POWERED BY	ANDREW.
1500	9.093	2.771	0.84	4	
1700	9.744	2.97	0.78	3	
1800	10.058	3.066	0.76	5	
2000	10.666	3.251	0.72	2	
2100	10.961	3.341	0.70	0	
2200	11.251	3.429	0.68	3	
2300	11.535	3.516	0.66	5	
2500	12.09	3.685	0.63	3	
2700	12.627	3.849	0.60	0	
3000	13.407	4.086	0.57	7	
3400	14.401	4.389	0.53	3	
3700	15.118	4.608	0.50	0	
4000	15.815	4.82	0.48	3	
5000	18.01	5.489	0.42	2	
6000	20.055	6.113	0.38	3	
8000	23.826	7.262	0.32	2	
8800	25.244	7.694	0.30	0	

^{*} Values typical, guaranteed within 5%

Regulatory Compliance/Certifications

Agency

RoHS 2011/65/EU

China RoHS SJ/T 11364-2006

ISO 9001:2008

Classification

Compliant

Below Maximum Concentration Value (MCV)

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













LDF4-50A-E1

LDF4-50A-E1, HELIAX® Low Density Foam Coaxial Cable, corrugated copper, 1/2 in, black PE jacket

Construction Materials

Jacket Material PE

Outer Conductor Material Corrugated copper

Dielectric Material Foam PE Flexibility Standard

Inner Conductor Material Copper-clad aluminum wire

Jacket Color Black

Dimensions

Nominal Size	1/2 in
Cable Weight	0.15 lb/ft 0.22 kg/m
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dc Test Voltage 4000 V

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Jacket Spark Test Voltage (rms) 8000 V

Operating Frequency Band 1 - 8800 MHz

Peak Power 40.0 kW

Velocity 88%

Environmental Specifications

Installation Temperature	-40 °C to +60 °C (-40 °F to +140 °F)
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Brand HELIAX®

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Flat Plate Crush Strength	110.0 lb/in 2.0 kg/mm
Minimum Bend Radius, Multiple Bends	127.00 mm 5.00 in



LDF4-50A-E1

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Minimum Bend Radius, Single Bend 50.80 mm | 2.00 in

Number of Bends, minimum 15 Number of Bends, typical 50

Tensile Strength 113 kg | 250 lb

Note

Performance Note Values typical, unless otherwise stated

Standard Conditions

Attenuation, Ambient Temperature 20 °C | 68 °F Average Power, Ambient Temperature 40 °C | 104 °F Average Power, Inner Conductor Temperature 100 °C | 212 °F

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