# L2A-PNMNM

### **Base Product**

LDF2-50 SureFlex® Jumper with interface types N Male and N Male, variable length

# Product Classification

Product Type		Wireless transmission cable assembly	
Product Brand		HELIAX®   SureFlex®	
Product Series		LDF2-50	
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		A	
Variable Length		For custom lengths contact 828-324-2200 or 1-800-982-1708 (toll free), or your local CommScope representative	
Dimensions			
Length		0 m   0 ft	
Nominal Size		3/8 in	
VSWR/Return Loss			
Frequency Band	VSWR	Return Loss (dB)	
700–3000 MHz	1.43	15.04	

# Jumper Assembly Sample Label

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**COMMSCOPE**°

# \_2A-PNMNM



# **Environmental Specifications**

**Immersion Test Method** 

Meets IEC 60529:2001, IP68 in mated condition

### Regulatory Compliance/Certifications

Agency	Classification	
ISO 9001:2015	Designed, manufactured and/or distributed under this quality management system	
Included Products		

35422-23	-	Heat Treated LDF2-50, HELIAX® Low Density Foam Coaxial Cable, corrugated copper, 3/8 in, black PE jacket
LDF2-50	-	LDF2-50, HELIAX® Low Density Foam Coaxial Cable, corrugated copper, 3/8 in, black PE jacket

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Heat Treated LDF2-50, HELIAX® Low Density Foam Coaxial Cable, corrugated copper, 3/8 in, black PE jacket

# Product Classification

Official -

Product Type	Coaxial wireless cable
Product Brand	HELIAX®   SureFlex®
Product Series	LDF2-50
General Specifications	
Flexibility	Standard
Jacket Color	Black
Performance Note	Attenuation values typical, guaranteed within 5%
Dimensions	
Diameter Over Dielectric	8.636 mm   0.34 in
Diameter Over Jacket	11.176 mm   0.44 in
Inner Conductor OD	3.048 mm   0.12 in
Outer Conductor OD	9.652 mm   0.38 in
Nominal Size	3/8 in
Electrical Specifications	
Cable Impedance	50 ohm ±1 ohm
Capacitance	75.5 pF/m   23.012 pF/ft
dc Resistance, Inner Conductor	3.478 ohms/km   1.06 ohms/kft
dc Resistance, Outer Conductor	2.854 ohms/km   0.87 ohms/kft
dc Test Voltage	2500 V
Inductance	0.19 μH/m   0.058 μH/ft
Insulation Resistance	100000 MOhms-km

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**COMMSCOPE**°

# 35422-23

Jacket Spark Test Voltage (rms)	5000 V
Operating Frequency Band	1 – 13000 MHz
Peak Power	15.6 kW
Velocity	85 %
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	95.25 mm   3.75 in
Minimum Bend Radius, single Bend	40.64 mm   1.6 in
Number of Bends, minimum	15
Number of Bends, typical	50
Tensile Strength	113 kg   249.122 lb
Bending Moment	1.9 N-m   16.816 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**

0.12 kg/m | 0.081 lb/ft

# Regulatory Compliance/Certifications

#### Classification

ISO 9001:2015

Agency

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

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LDF2-50, HELIAX® Low Density Foam Coaxial Cable, corrugated copper, 3/8 in, black PE jacket

### Product Classification

Childen -

Product Type Coaxial wireless cable **Product Brand** HELIAX® | SureFlex® **Product Series** LDF2-50 General Specifications 520098202/00 | SZ520098202/00 **Product Number** Flexibility Standard Jacket Color Black Performance Note Attenuation values typical, guaranteed within 5% Dimensions **Diameter Over Dielectric** 8.636 mm | 0.34 in **Diameter Over Jacket** 11.176 mm | 0.44 in **Inner Conductor OD** 3.124 mm | 0.123 in 9.652 mm | 0.38 in **Outer Conductor OD** Nominal Size 3/8 in **Electrical Specifications Cable Impedance** 50 ohm ±1 ohm 75.5 pF/m | 23.012 pF/ft Capacitance dc Resistance, Inner Conductor 3.478 ohms/km | 1.06 ohms/kft

Inductance

dc Test Voltage

dc Resistance, Outer Conductor

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2500 V

2.854 ohms/km | 0.87 ohms/kft

0.19 µH/m | 0.058 µH/ft



# LDF2-50

Insulation Resistance	100000 MOhms-km
Jacket Spark Test Voltage (rms)	5000 V
Operating Frequency Band	1 – 13000 MHz
Peak Power	15.6 kW
Velocity	85 %

## 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	95.25 mm   3.75 in
Minimum Bend Radius, single Bend	40.64 mm   1.6 in
Number of Bends, minimum	15
Number of Bends, typical	50
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# Packaging and Weights

Cable weight

0.12 kg/m | 0.081 lb/ft

# Regulatory Compliance/Certifications

Classification

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# LDF2-50

CHINA-ROHS

ISO 9001:2015

REACH-SVHC

ROHS

UK-ROHS



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 Compliant



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