LS2-XMHM-P-W

Base Product



LSF2-50 SureFlex® Jumper with interface types 4.3-10 Male and NEX10 Male with HELIAX® SureGuard weatherproofing boot, variable length

• WARNING: DO NOT MATE WITH 4.1-9.5 DIN

Product Classification **Product Type** Wireless transmission cable assembly **Product Series** LSF2-50 General Specifications Body Style, Connector A Straight Body Style, Connector B Straight Interface, Connector A 4.3-10 Male NEX10 Male Interface, Connector B **Specification Sheet Revision Level** А Variable Length For custom lengths, contact your local ANDREW representative Dimensions **Nominal Size** 3/8 in **Electrical Specifications 3rd Order IMD** -116 dBm **3rd Order IMD Test Method** Two +43 dBm carriers VSWR/Return Loss Frequency Band VSWR Return Loss (dB)

VSWR	Keturn Loss (ub)
1.065	30.04
1.083	27.99
1.106	25.96
1.222	20.01
	1.065 1.083 1.106

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LS2-XMHM-P-W

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 Weigl	nts	
Included		Weatherproofing boot
Included Products		
LS2XM-P	- NE	EX10 Male for 3/8 in LSF2-50 cable, factory attached
LSF2-50		F2-50, HELIAX® Superflexible Foam Coaxial Cable, corrugated copper, 3/8 in, black PE jacket of for Individual Sale - Jumpers only)
P4HM-S2	- 4.3	3-10 Male for 3/8 in LSF2-50 cable, factory attached

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LS2XM-P



NEX10 Male for 3/8 in LSF2-50 cable, factory attached

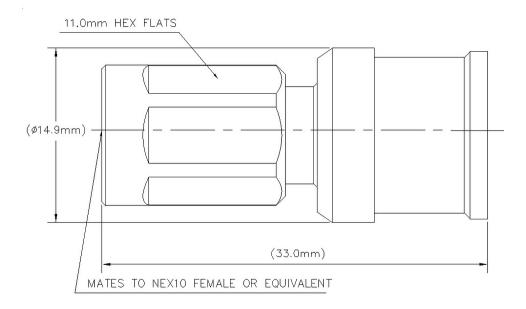
Product Classification	
Product Type	

Product Type	Wireless and radiating connector	
Product Brand	HELIAX®	
Product Series	LSF2-50	
General Specifications		
Body Style	Straight	
Cable Family	LSF2-50	
Inner Contact Attachment Method	Solder	
Inner Contact Plating	Silver	
Interface	NEX10 Male	
Outer Contact Attachment Method	Solder	
Outer Contact Plating	Trimetal	
Dimensions		
Length	33 mm 1.299 in	
Diameter	14.9 mm 0.587 in	
Nominal Size	3/8 in	

Outline Drawing

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Electrical Specifications

-119 dBm @ 910 MHz
Two +43 dBm carriers
0.05
50 ohm
50 ohm
1500 V
2 m0hm
5000 MOhm
0 – 6000 MHz
1 m0hm
5 kW

VSWR/Return Loss

Frequency Band	VSWR	Return Loss (dB)
698–970 MHz	1.029	36.9
1700–2700 MHz	1.058	31

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3000-6000 MHz

20.01

Mechanical Specifications

Connector Retention Tensile Force	200.17 N 45 lbf	
Connector Retention Torque	23.9 in lb 2.7 N-m	
Coupling Nut Proof Torque	5 N-m 44.254 in lb	
Coupling Nut Retention Force	500 N 112.405 lbf	
Interface Durability	100 cycles	
Mechanical Shock Test Method	IEC 60068-2-27	

1.222

Environmental Specifications

Operating Temperature	-55 °C to +85 °C (-67 °F to +185 °F)
Storage Temperature	-65 °C to +125 °C (-85 °F to +257 °F)
Corrosion Test Method	IEC 60068-2-11
Immersion Depth	1 m
Immersion Test Mating	Mated
Immersion Test Method	IEC 60529:2001, IP68
Moisture Resistance Test Method	IEC 60068-2-3
Thermal Shock Test Method	IEC 60068-2-14
Vibration Test Method	IEC 60068-2-6
Packaging and Weights	
Weight, net	17.61 g 0.039 lb
* Footnotes	
Insertion Loss Coefficient typical	$0.05\sqrt{-}$ freq (GHz) (not applicable for elliptical

Insertion Loss Coefficient, typical	$0.05\sqrt{-}$ freq (GHz) (not applicable for elliptical waveguide)
Immersion Depth	Immersion at specified depth for 24 hours



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LSF2-50



LSF2-50, HELIAX® Superflexible Foam Coaxial Cable, corrugated copper, 3/8 in, black PE jacket (Not for Individual Sale - Jumpers only)

Product Classification

Product Type	Coaxial wireless cable	
Product Brand	HELIAX® SureFlex®	
Product Series	LSF2-50 MLOC	
Ordering Note	ANDREW® standard product (Global)	
General Specifications		
Flexibility	Superflexible	
Jacket Color	Black	
Performance Note	Attenuation values typical, guaranteed within 5%	
Dimensions		
Diameter Over Dielectric	7.645 mm 0.301 in	
Diameter Over Jacket	11.024 mm 0.434 in	
Inner Conductor OD	3.048 mm 0.12 in	
Outer Conductor OD	9.906 mm 0.39 in	
Nominal Size	3/8 in	
Electrical Specifications		
Cable Impedance	50 ohm ±1 ohm	
Capacitance	80.7 pF/m 24.597 pF/ft	
dc Resistance, Inner Conductor	3.65 ohms/km 1.113 ohms/kft	
dc Resistance, Outer Conductor	4.64 ohms/km 1.414 ohms/kft	
dc Test Voltage	2500 V	
Inductance	0.202 μH/m 0.062 μH/ft	
Insulation Resistance	100000 MOhms-km	
Jacket Spark Test Voltage (rms)	5000 V	
Operating Frequency Band	1 – 10200 MHz	

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LSF2-50

Peak Power	15.6 kW
Velocity	82 %
VSWR/Return Loss	

Frequency Band	VSWR	Return Loss (dB)
680-800 MHz	1.201	20.79
800–960 MHz	1.201	20.79
1700–2200 MHz	1.201	20.79
2300–2700 MHz	1.201	20.79
3400–3800 MHz	1.201	20.79

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	25.4 mm 1 in
Minimum Bend Radius, single Bend	25.4 mm 1 in
Number of Bends, minimum	15
Tensile Strength	118 kg 260.145 lb
Bending Moment	2.2 N-m 19.472 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
EN50575 CPR Cable EuroClass Fire Performance	Fca

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LSF2-50

Packaging and Weights

Cable weight

0.11 kg/m | 0.074 lb/ft

Regulatory Compliance/Certifications

Agency Classification

CENELEC

EN 50575 compliant, Declaration of Performance (DoP) available

ISO 9001:2015

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

CENELEC

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P4HM-S2



Product Classification Wireless and radiating connector Product Type **Product Brand HELIAX®** General Specifications **Body Style** Straight **Cable Family** LSF2-50 **Inner Contact Attachment Method** Solder **Inner Contact Plating** Silver Interface 4.3-10 Male **Outer Contact Attachment Method** Solder **Outer Contact Plating** Trimetal Dimensions Length 20.07 mm | 0.79 in Diameter 23.88 mm | 0.94 in

Outline Drawing

Nominal Size

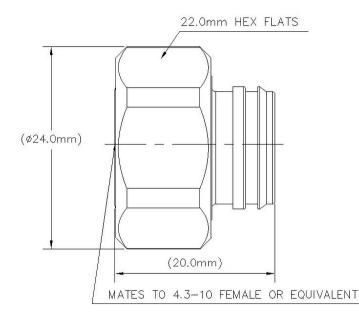
4.3-10 Male for 3/8 in LSF2-50 cable, factory attached

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3/8 in

ANDREW an Amphenol company



Electrical Specifications

3rd Order IMD at Frequency	-119 dBm @ 910 MHz
3rd Order IMD Test Method	Two +43 dBm carriers
Insertion Loss Coefficient, typical	0.05
Cable Impedance	50 ohm
Connector Impedance	50 ohm
dc Test Voltage	2500 V
Inner Contact Resistance, maximum	1 m0hm
Insulation Resistance, minimum	5000 MOhm
Operating Frequency Band	0 – 6000 MHz
Outer Contact Resistance, maximum	1 m0hm
Peak Power, maximum	15 kW

VSWR/Return Loss

Frequency Band	VSWR	Return Loss (dB)
0–3.8 GHz	1.023	38.89
3.8–6 GHz	1.041	33.94

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P4HM-S2

Mechanical Specifications

Connector Retention Tensile Force	200.17 N 45 lbf
Connector Retention Torque	2.7 N-m 23.897 in lb
Coupling Nut Proof Torque	8 N-m 70.806 in lb
Coupling Nut Retention Force	449.98 N 101.16 lbf
Interface Durability	100 cycles
Mechanical Shock Test Method	IEC 60068-2-27

Environmental Specifications

Operating Temperature	-55 °C to +85 °C (-67 °F to +185 °F)
Storage Temperature	-65 °C to +125 °C (-85 °F to +257 °F)
Attenuation, Ambient Temperature	20 °C 68 °F
Average Power, Ambient Temperature	40 °C 104 °F
Corrosion Test Method	IEC 60068-2-11
Immersion Depth	1 m
Immersion Test Mating	Mated
Immersion Test Method	IEC 60529:2001, IP68
Moisture Resistance Test Method	IEC 60068-2-3
Thermal Shock Test Method	IEC 60068-2-14
Vibration Test Method	IEC 60068-2-6

Packaging and Weights

25.45 g | 0.056 lb

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



Weight, net

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P4HM-S2

* Footnotes

Insertion Loss Coefficient, typical 0.05√⁻freq (GHz) (not applicable for elliptical waveguide)

Immersion Depth

Immersion at specified depth for 24 hours

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