LS2-XMHM-W-D

Base Product



Product Classification

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

• WARNING: DO NOT MATE WITH 4.1-9.5 DIN

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 NEX10 Male 4.3-10 Male Interface, Connector B **Specification Sheet Revision Level** А Variable Length For custom lengths, contact your local ANDREW representative Dimensions Cable Assembly Length Range (m) 1 - 30 **Nominal Size** 3/8 in

Logo Image

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LS2-XMHM-W-D



Electrical Specifications

3rd Order IMD Dynamic	-119 dBm
3rd Order IMD Dynamic Test Method	Two +43 dBm carriers per IEC 62037

VSWR/Return Loss

Frequency Band	VSWR	Return Loss (dB)
698–970 MHz	1.065	30
1700–2200 MHz	1.083	28
2200–2700 MHz	1.106	26
3400-3800 MHz	1.222	20
4000–6000 MHz	1.288	18

Jumper Assembly Sample Label



LS2-XMHM-W-D



Environmental Specifications

Immersion Test Method	Meets IEC 60529:2001, IP68 in mated condition
Weatherproofing Method	HELIAX® SureGuard weatherproofing boot

Included Products

LS2HMP-S2	-	4.3-10 Push Pull Male for 3/8 in LSF2-50 cable, factory attached
LS2XM-P	-	NEX10 Male for 3/8 in LSF2-50 cable, factory attached
LSF2-50	-	LSF2-50, HELIAX® Superflexible Foam Coaxial Cable, corrugated copper, 3/8 in, black PE jacket (Not for Individual Sale - Jumpers only)

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LS2HMP-S2



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

Wireless and radiating connector

HELIAX®

Product Classification	
Product Type	
Product Brand	

General Specifications

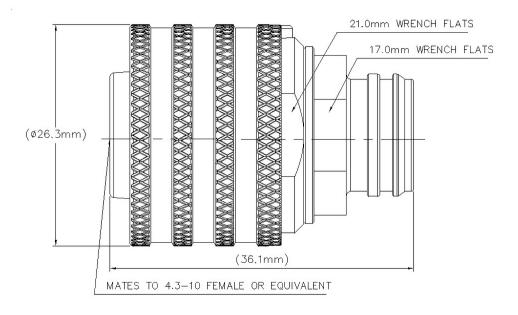
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Body Style	Straight
Cable Family	LSF2-50
Inner Contact Attachment Method	Solder
Inner Contact Plating	Silver
Interface	4.3-10 Male
Outer Contact Attachment Method	Solder
Outer Contact Plating	Trimetal
Dimensions	
t	061 margar 1 401 im

35 in

Outline Drawing

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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)
0–4000 MHz	1.032	36.06
4000–6000 MHz	1.052	31.92

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LS2HMP-S2

Mechanical Specifications

Connector Retention Tensile Force	200.17 N 45 lbf
Connector Retention Torque	4.1 N-m 36.288 in lb
Coupling Nut Retention Force	449.98 N 101.16 lbf
Interface Durability	5 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

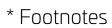
Weight, net

72.83 g | 0.161 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/Exempted





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LS2HMP-S2

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

Immersion Depth

Immersion at specified depth for 24 hours





LS2XM-P



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

Produc	t Classification	

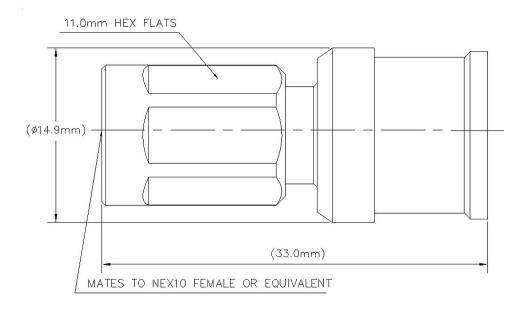
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Product Type	Wireless and radiating connector
Product Brand	HELIAX®
Product Series	LSF2-50
General Specifications	
Body Style	Straight
Cable Family	LSF2-50
Inner Contact Attachment Method	Solder
Inner Contact Plating	Silver
Interface	NEX10 Male
Outer 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	$0.05\sqrt{-1}$ freq (GHz) (not applicable for elliptical

Insertion Loss Coefficient, typical0.05√-freq (GHz) (not applicable for elliptical waveguide)Immersion DepthImmersion 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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