LS2-HMHM-1M-W1-D



LSF2 SureFlex® Jumper with interface types 4.3-10 Male and 4.3-10 Male with HELIAX® SureGuard weatherproofing on one end only, 1 m

• WARNING: DO NOT MATE WITH 4.1-9.5 DIN

Product Type	SureFlex® D-CLASS, dynamic PIM
Product Brand	HELIAX® SureFlex®
Product Series	LSF2-50
General Specifications	
Body Style, Connector A	Straight
Body Style, Connector B	Straight
Interface, Connector A	4.3-10 Male
Interface, Connector B	4.3-10 Male
Specification Sheet Revision Level	А
Dimensions	
Length	1 m 3.281 ft
Nominal Size	3/8 in
Logo Image	

Product Classification

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LS2-HMHM-1M-W1-D



Electrical Specifications

3rd Order IMD	-119 dBm
3rd Order IMD Test Method	Two +43 dBm carriers

VSWR/Return Loss

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

Jumper Assembly Sample Label

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LS2-HMHM-1M-W1-D



Environmental Specifications

Immersion Test MethodMeets IEC 60529:2001, IP68 in mated conditionWeatherproofing MethodHELIAX® SureGuard weatherproofing boot

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.commscope.com/ProductCompliance
ROHS	Compliant
UK-ROHS	Compliant



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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)
P4HM-S2	-	4.3-10 Male for 3/8 in LSF2-50 cable, factory attached

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

Product Classification

dc Test Voltage

Inductance

Product Type	Coaxial wireless cable
Product Brand HELIAX® SureFlex®	
Product Series	LSF2-50 MLOC
Ordering Note	CommScope® 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
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2500 V

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
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

Attenuation

Frequency (MHz)	Attenuation (dB/100 m)	Attenuation (dB/100 ft)	Average Power (kW)
1.0	0.422	0.129	15.6
1.5	0.501	0.153	15.6
2.0	0.567	0.173	14.27
10.0	1.179	0.359	6.86
20.0	1.641	0.5	4.93
30.0	1.998	0.609	4.05
50.0	2.567	0.782	3.15
85.0	3.342	1.019	2.42
88.0	3.4	1.036	2.38
100.0	3.625	1.105	2.23
108.0	3.768	1.148	2.15
150.0	4.447	1.355	1.82
174.0	4.795	1.461	1.69
200.0	5.147	1.569	1.57
204.0	5.199	1.585	1.56
300.0	6.336	1.931	1.28
400.0	7.351	2.241	1.1
450.0	7.815	2.382	1.03
460.0	7.905	2.409	1.02

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500.0	8.257	2.517	0.98
512.0	8.36	2.548	0.97
600.0	9.084	2.769	0.89
700.0	9.851	3.003	0.82
800.0	10.572	3.222	0.77
824.0	10.739	3.273	0.75
894.0	11.214	3.418	0.72
960.0	11.648	3.55	0.69
1000.0	11.904	3.628	0.68
1218.0	13.231	4.033	0.61
1250.0	13.417	4.089	0.6
1500.0	14.806	4.512	0.55
1700.0	15.848	4.83	0.51
1794.0	16.32	4.974	0.5
1800.0	16.35	4.983	0.49
2000.0	17.321	5.279	0.47
2100.0	17.791	5.423	0.45
2200.0	18.253	5.563	0.44
2300.0	18.706	5.701	0.43
2500.0	19.589	5.97	0.41
2700.0	20.445	6.231	0.4
3000.0	21.682	6.608	0.37
3400.0	23.26	7.089	0.35
3600.0	24.022	7.321	0.34
3700.0	24.396	7.436	0.33
3800.0	24.767	7.549	0.33
3900.0	25.134	7.661	0.32
4000.0	25.498	7.771	0.32
4100.0	25.858	7.881	0.31
4200.0	26.215	7.99	0.31
4300.0	26.569	8.098	0.3
4400.0	26.92	8.205	0.3
4500.0	27.267	8.311	0.3
4600.0	27.612	8.416	0.29
4700.0	27.954	8.52	0.29

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4800.0	28.294	8.623	0.29
4900.0	28.63	8.726	0.28
5000.0	28.965	8.828	0.28
6000.0	32.183	9.809	0.25
8000.0	38.096	11.611	0.21
8800.0	40.314	12.287	0.2
10000.0	43.516	13.263	0.19

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
Dackaging and Mojepte	

Packaging and Weights

Cable weight

0.11 kg/m | 0.074 lb/ft

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Regulatory Compliance/Certifications

Classification

Agency

CENELECEN 50575 compliant, Declaration of Performance (DoP) availableISO 9001:2015Designed, 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

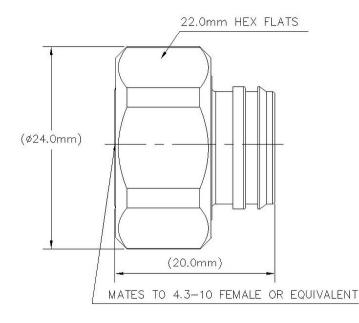
4.3-10 Male for 3/8 in LSF2-50 cable, factory attached

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3/8 in





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 mOhm
Insulation Resistance, minimum	5000 MOhm
Operating Frequency Band	0 – 6000 MHz
Outer Contact Resistance, maximum	1 mOhm
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.commscope.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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