F1-XMHM-W

Base Product



FSJ1-50A SureFlex® Jumper with interface types NEX10 Male and 4.3-10 Male with HELIAX® SureGuard weatherproofing

Product Classification

Product Type	Wireless transmission cable assembly
Product Series	FSJ1-50A
General Specifications	
Attachment, Connector A	Factory attached
Attachment, Connector B	Factory attached
Body Style, Connector A	Straight
Body Style, Connector B	Straight
Interface, Connector A	NEX10 Male
Interface, Connector B	4.3-10 Male
Specification Sheet Revision Level	A
Variable Length	For custom lengths, contact your local ANDREW representative
Dimensions	
Nominal Size	1/4 in
Electrical Specifications	
3rd Order IMD	-117 dBm
3rd Order IMD Test Method	Two +43 dBm carriers

Jumper Assembly Sample Label

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F1-XMHM-W



Environmental Specifications

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

Included Products

F1HM-S2	-	4.3-10 Male for 1/4 in foam coaxial cable, factory attached
F1XM-P-HS	-	NEX10 Male for 1/4 in foam coaxial cable, factory attached
FSJ1-50A	-	FSJ1-50A, HELIAX® Superflexible Low Density Foam Coaxial Cable, corrugated copper, 1/4 in, black PE jacket

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F1HM-S2

4.3-10 Male for 1/4 in foam coaxial cable, factory attached

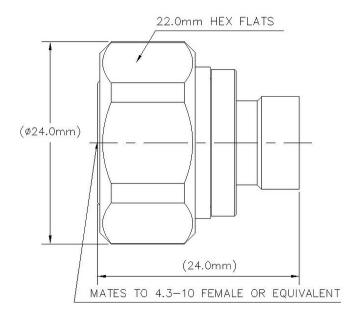
Product Classification

Product Type	oduct Type Wireless and radiating connect	
Product Brand	HELIAX® SureFlex®	
General Specifications		
Body Style	Straight	
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	23.88 mm 0.94 in	
Diameter	23.88 mm 0.94 in	
Nominal Size	1/4 in	

Outline Drawing







Electrical Specifications

	riers
3rd Order IMD Test MethodTwo +43 dBm car	11013
Insertion Loss Coefficient, typical 0.05	
Cable Impedance50 ohm	
Connector Impedance 50 ohm	
dc Test Voltage 2300 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, maximum6.4 kW	
RF Operating Voltage, maximum (vrms) 565 V	

VSWR/Return Loss

Frequency Band	VSWR	Return Loss (dB)
0–3000 MHz	1.041	33.94

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F1HM-S2

3000-4000 MHz	1.065	30.04
4000–6000 MHz	1.119	25.01

Mechanical Specifications

Connector Retention Tensile Force	449.27 N 101 lbf
Connector Retention Torque	1.1 N-m 9.736 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	
Average Power, Inner Conductor Temperature	100 °C 212 °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

31.21 g | 0.069 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

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F1HM-S2



Compliant/Exempted

* Footnotes

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

Immersion Depth

Immersion at specified depth for 24 hours





F1XM-P-HS



Product Classification

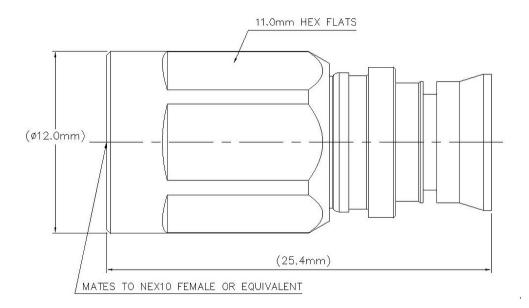
NEX10 Male for 1/4 in foam coaxial cable, factory attached

PIUUULI LIASSIIILALIUII		
Product Type	Wireless and radiating connector	
Product Brand	HELIAX®	
General Specifications		
Body Style	Straight	
Inner Contact Attachment Method	Solder	
Inner Contact Plating	Silver	
Interface	NEX10 Male	
Outer Contact Attachment Method	Solder	
Duter Contact Plating Silver		
Dimensions		
Length	25.4 mm 1 in	
Diameter	11.94 mm 0.47 in	
Nominal Size	1/4 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	1500 V
Inner Contact Resistance, maximum	2 m0hm
Insulation Resistance, minimum	5000 MOhm
Operating Frequency Band	0 – 20 GHz
Outer Contact Resistance, maximum	1 m0hm
Peak Power, maximum	5 kW

VSWR/Return Loss

Frequency Band	VSWR	Return Loss (dB)
0–3000 MHz	1.032	36.06
3000–4000 MHz	1.046	32.96

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F1XM-P-HS

4000–6000 MHz	1.135	23.98
6000–10000 MHz	1.135	23.98

Mechanical Specifications

Connector Retention Tensile Force	449.27 N 101 lbf
Connector Retention Torque	1.1 N-m 9.736 in lb
Coupling Nut Proof Torque	5 N-m 44.254 in lb
Coupling Nut Retention Force	499.98 N 112.4 lbf
Interface Durability	100 cycles
Mechanical Shock Test Method	IEC 60068-2-27

Environmental Specifications

-55 °C to +85 °C (-67 °F to +185 °F)
-65 °C to +125 °C (-85 °F to +257 °F)
20 °C 68 °F
40 °C 104 °F
100 °C 212 °F
IEC 60068-2-11
1 m
Mated
IEC 60529:2001, IP68
IEC 60068-2-3
IEC 60068-2-14
IEC 60068-2-6

Packaging and Weights

Weight, net

8.8 g | 0.019 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

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F1XM-P-HS



Compliant

* Footnotes

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

Immersion Depth

Immersion at specified depth for 24 hours





FSJ1-50A

FSJ1-50A, HELIAX® Superflexible Low Density Foam Coaxial Cable, corrugated copper, 1/4 in, black PE jacket

Product Classification

Jacket Spark Test Voltage (rms)

Operating Frequency Band

Product Type	Coaxial wireless cable
Product Brand	HELIAX® SureFlex®
Product Series	FSJ1-50A MLOC
General Specifications	
Product Number	887009902/00 SZ887009902/00
Flexibility	Superflexible
Jacket Color	Black
Performance Note	Attenuation values typical, guaranteed within 5%
Dimensions	
Diameter Over Dielectric	4.826 mm 0.19 in
Diameter Over Jacket	7.366 mm 0.29 in
Inner Conductor OD	1.905 mm 0.075 in
Outer Conductor OD	6.35 mm 0.25 in
Nominal Size	1/4 in
Electrical Specifications	
Cable Impedance	50 ohm ±1 ohm
Capacitance	79.4 pF/m 24.201 pF/ft
dc Resistance, Inner Conductor	9.843 ohms/km 3 ohms/kft
dc Resistance, Outer Conductor	7.216 ohms/km 2.199 ohms/kft
dc Test Voltage	1600 V
Inductance	0.2 μH/m 0.061 μH/ft
Insulation Resistance	100000 MOhms-km
	5000.1/

5000 V

1 – 18000 MHz

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FSJ1-50A

Peak Power		6.4 kW
Velocity		82 %
VSWR/Return Los	S	
Frequency Band	VSWR	Return Loss (dB)
680–960 MHz	1.201	20.8
1700–2200 MHz	1.201	20.8
2200-2700 MHz	1.433	15
Material Specification	วทร	
Dielectric Material		Foam PE
Jacket Material		PE
Inner Conductor Material		Copper-clad aluminum wire
Outer Conductor Material		Corrugated copper
Mechanical Specific	ations	
Minimum Bend Radius, multip	le Bends	25.4 mm 1 in
Minimum Bend Radius, single	Bend	25.4 mm 1 in
Number of Bends, minimum		15
Number of Bends, typical		20

Number of Bends, typical	20
Tensile Strength	68 kg 149.914 lb
Bending Moment	0.7 N-m 6.196 in lb
Flat Plate Crush Strength	1.8 kg/mm 100.795 lb/in

Environmental Specifications

-40 °C to +60 °C (-40 °F to +140 °F)
-55 °C to +85 °C (-67 °F to +185 °F)
-70 °C to +85 °C (-94 °F to +185 °F)
68 °F 20 °C
104 °F 40 °C
212 °F 100 °C

Packaging and Weights

Cable weight

0.07 kg/m | 0.047 lb/ft



FSJ1-50A

Regulatory Compliance/Certifications

Agency

Classification

CHINA-ROHS ISO 9001:2015 **REACH-SVHC** ROHS Compliant **UK-ROHS** Compliant

UL/ETL Certification



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