F2A-DMDM-P

Base Product

FSJ2-50 Jumper with interface types 7/16 DIN Male and 7/16 DIN Male, wariable length

Product Classification

Product Type		Wireless transmission cable assembly
Product Brand		HELIAX® SureFlex®
Product Series		FSJ2-50
General Specifications		
Body Style, Connector A		Straight
Body Style, Connector B		Straight
Interface, Connector A		7-16 DIN Male
Interface, Connector B		7-16 DIN Male
Specification Sheet Revision Level		A
Variable Length		For custom lengths, contact your local ANDREW representative
Dimensions		
Nominal Size		3/8 in
Electrical Specifications		
3rd Order IMD Static		-110 dBm
3rd Order IMD Static Test Method		Two +43 dBm carriers
VSWR/Return Loss		
Frequency Band	VSWR	Return Loss (dB)
698–960 MHz	1.11	26.4

26.4

26.4

Jumper Assembly Sample Label

1.11

1.11

1700-2200 MHz

2200-2700 MHz

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F2A-DMDM-P



Environmental Specifications

Immersion Test MethodMeets IEC 60529:2001, IP68 in mated condition

Included Products

F2TDM-LS FSJ2-50 7-16 DIN Male for 3/8 in foam and air coaxial cable, factory attached FSJ2-50, HELIAX® Superflexible Foam Coaxial Cable, corrugated copper, 3/8 in, black PE jacket



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F2TDM-LS



7-16 DIN Male for 3/8 in foam and air coaxial cable, factory attached

Product Classification

Nominal Size

Product Type Wireless and radiating connector **Product Brand** HELIAX® | SureFlex® General Specifications **Body Style** Straight **Inner Contact Attachment Method** Solder **Inner Contact Plating** Silver Interface 7-16 DIN Male **Outer Contact Attachment Method** Solder **Outer Contact Plating** Trimetal Pressurizable No Dimensions Length 33.27 mm | 1.31 in Diameter 35.05 mm | 1.38 in

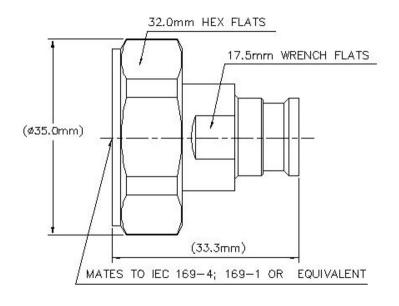
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3/8 in

Outline Drawing



Electrical Specifications

3rd Order IMD at Frequency	-112 dBm @ 910 MHz
3rd Order IMD Test Method	Two +43 dBm carriers
Insertion Loss Coefficient, typical	0.05
Average Power at Frequency	0.7 kW @ 900 MHz
Cable Impedance	50 ohm
Connector Impedance	50 ohm
dc Test Voltage	2300 V
Inner Contact Resistance, maximum	0.4 mOhm
Insulation Resistance, minimum	10000 MOhm
Operating Frequency Band	0 – 6000 MHz
Outer Contact Resistance, maximum	1.5 mOhm
Peak Power, maximum	13.2 kW
RF Operating Voltage, maximum (vrms)	813 V
Shielding Effectiveness	-110 dB

VSWR/Return Loss

Frequency Band

VSWR

Return Loss (dB)

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F2TDM-LS

0–960 MHz	1.036	35.05
1710-2200 MHz	1.046	32.96
2200–2700 MHz	1.065	30.04
2700–3000 MHz	1.065	30.04
3000–6000 MHz	1.152	23.02

Mechanical Specifications

Connector Retention Tensile Force	934.13 N 210 lbf
Connector Retention Torque	2.3 N-m 20.357 in lb
Coupling Nut Proof Torque	35 N-m 309.776 in lb
Coupling Nut Proof Torque Method	IEC 61169-16:9.3.11
Coupling Nut Retention Force	1000 N 224.81 lbf
Coupling Nut Retention Force Method	IEC 61169-15:9.3.11
Insertion Force	199.99 N 44.96 lbf
Insertion Force Method	IEC 61169-15:9.3.5
Interface Durability	500 cycles
Interface Durability Method	IEC 61169-4:17
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 Mating Immersion Test Method	Mated IEC 60529:2001, IP68
5	
Immersion Test Method	IEC 60529:2001, IP68
Immersion Test Method Moisture Resistance Test Method	IEC 60529:2001, IP68 IEC 60068-2-3

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F2TDM-LS

Packaging and Weights

Weight, net

59.81 g | 0.132 lb

Regulatory Compliance/Certifications

Classification

Compliant

Compliant

Agency

CHINA-ROHS

REACH-SVHC

ROHS

UK-ROHS



* Footnotes

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

Below maximum concentration value

Immersion Depth

Immersion at specified depth for 24 hours

Compliant as per SVHC revision on www.andrew.com/ProductCompliance



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FSJ2-50



FSJ2-50, HELIAX® Superflexible Foam Coaxial Cable, corrugated copper, 3/8 in, black PE jacket

Product Classification

Product Type	Coaxial wireless cable
Product Brand	HELIAX® SureFlex®
Product Series	FSJ2-50

General Specifications

Product Number	887019902/00 SZ887019902/00
Flexibility	Superflexible
Jacket Color	Black
Performance Note	Attenuation values typical, guaranteed within 5%
Dimensions	
Diameter Over Dielectric	7.112 mm 0.28 in
Diameter Over Jacket	10.541 mm 0.415 in
Inner Conductor OD	2.794 mm 0.11 in
Outer Conductor OD	9.652 mm 0.38 in
Nominal Size	3/8 in

Electrical Specifications

Cable Impedance	50 ohm ±1 ohm
Capacitance	79.7 pF/m 24.293 pF/ft
dc Resistance, Inner Conductor	4.232 ohms/km 1.29 ohms/kft
dc Resistance, Outer Conductor	4.987 ohms/km 1.52 ohms/kft
dc Test Voltage	2300 V
Inductance	0.2 µH/m 0.061 µH/ft
Insulation Resistance	100000 MOhms-km
Jacket Spark Test Voltage (rms)	4000 V
Operating Frequency Band	1 – 13400 MHz

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FSJ2-50

Peak Power	13.2 kW
Velocity	83 %

Return Loss (dB)

25.96

VSVVR/REIUM LOSS Frequency Band VSWR 2.5–2.7 GHz 1.106

680–800 MHz	1.106	25.96
800–960 MHz	1.106	25.96
1700–2200 MHz	1.101	26.36

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	20
Number of Bends, typical	50
Tensile Strength	95 kg 209.439 lb
Bending Moment	2.3 N-m 20.357 in lb
Flat Plate Crush Strength	1.8 kg/mm 100.795 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



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FSJ2-50

Cable weight

0.12 kg/m | 0.081 lb/ft

Regulatory Compliance/Certifications

Agency

Classification

CHINA-ROHS ISO 9001:2015

ROHS

UK-ROHS



Below maximum concentration value Designed, manufactured and/or distributed under this quality management system Compliant Compliant





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