F2A-HRDR-P

Base Product

FSJ2-50 SureFlex® Jumper with interface types 4.3-10 Male Right Angle and 7-16 DIN Male Right Angle, variable length

Product Classification

Product Type	Wireless transmission cable assembly
Product Series	FSJ2-50
General Specifications	
Body Style, Connector A	Right angle
Body Style, Connector B	Right angle
Interface, Connector A	4.3-10 Male
Interface, Connector B	7-16 DIN Male
Orientation	0°
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	-110 dBm
3rd Order IMD Test Method	Two +43 dBm carriers
VSWR/Return Loss	

698–960 MHz	1.11	26.4
1700-2200 MHz	1.11	26.4
2200-2700 MHz	1.11	26.4

Jumper Assembly Sample Label

Page 1 of 13



F2A-HRDR-P



Environmental Specifications

Immersion Test Method

_

_

Meets IEC 60529:2001, IP68 in mated condition

Included Products

F2HR-S2 F2TDR-LS FSJ2-50

- 4.3-10 Male Right Angle for 3/8 in foam and air coaxial cable, factory attached
 - 7-16 DIN Male Right Angle 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

Page 2 of 13

F2HR-S2

4.3-10 Male Right Angle for 3/8 in foam and air coaxial cable, factory attached

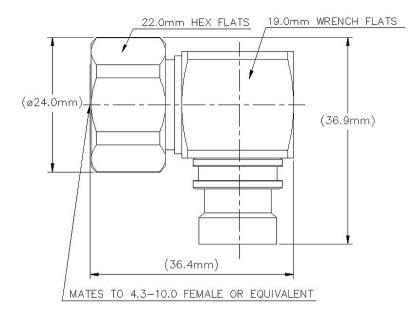
Product Classification

Product Type	Wireless and radiating connector
Product Brand	HELIAX® SureFlex®
General Specifications	
Body Style	Right angle
Inner Contact Attachment Method	Solder
Inner Contact Plating	Silver
Interface	4.3-10 Male
Outer Contact Attachment Method	Solder
Outer Contact Plating	Trimetal
Dimensions	
Height	34.29 mm 1.35 in
Width	32.26 mm 1.27 in
Length	23.88 mm 0.94 in
Nominal Size	3/8 in

Outline Drawing



i



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
Average Power at Frequency	676.0 W @ 900 MHz
Cable Impedance	50 ohm
Connector Impedance	50 ohm
dc Test Voltage	2300 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	13.2 kW
RF Operating Voltage, maximum (vrms)	813 V
Shielding Effectiveness	-110 dB

VSWR/Return Loss

Page 4 of 13



Si.

F2HR-S2

Frequency Band	VSWR	Return Loss (dB)
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	1.222	20.01

Mechanical Specifications

Connector Retention Tensile Force	671.68 N 151 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
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 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
Dackaging and Mojepte	

Packaging and Weights

Weight, net

65.47 g | 0.144 lb

Regulatory Compliance/Certifications

Page 5 of 13



F2HR-S2

Agency

ROHS

CHINA-ROHS

Classification

Above maximum concentration value Compliant/Exempted Compliant/Exempted



UK-ROHS

* Footnotes

Insertion Loss Coefficient, typical $0.05\sqrt{-}$ freq (GHz) (not applicable for elliptical waveguide)

Immersion Depth

Immersion at specified depth for 24 hours





F2TDR-LS



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

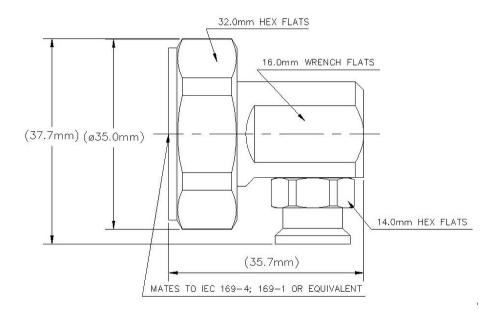
Product Classification

Product Type Wireless and radiating connector **Product Brand** HELIAX® | SureFlex® General Specifications **Body Style** Right angle **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 Height 37.59 mm | 1.48 in Width 35.05 mm | 1.38 in Length 35.81 mm | 1.41 in **Nominal Size** 3/8 in

Outline Drawing

Page 7 of 13





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 m0hm
Insulation Resistance, minimum	10000 MOhm
Operating Frequency Band	0 – 6000 MHz
Outer Contact Resistance, maximum	1.5 m0hm
Peak Power, maximum	13.2 kW
RF Operating Voltage, maximum (vrms)	813 V
Shielding Effectiveness	-110 dB

VSWR/Return Loss

Page 8 of 13



F2TDR-LS

Frequency Band	VSWR	Return Loss (dB)
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	1.222	20.01

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
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
-	
Immersion Test Method	IEC 60529:2001, IP68
Immersion Test Method Moisture Resistance Test Method	IEC 60529:2001, IP68 IEC 60068-2-3

©2025 ANDREW, an Amphenol company. All rights reserved. Amphenol and ANDREW are registered trademarks of Amphenol and/or its affiliates in the U.S. and other countries. All product names, trademarks and registered trademarks are property of their respective owners. Revised: March 12, 2025

Page 9 of 13



F2TDR-LS

Packaging and Weights

Weight, net

79.34 g | 0.175 lb

Regulatory Compliance/Certifications

Classification

Agency

CHINA-ROHS

ROHS

Above maximum concentration value Compliant/Exempted

Compliant/Exempted



UK-ROHS

* Footnotes

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

Immersion Depth

Immersion at specified depth for 24 hours

Page 10 of 13



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

Page 11 of 13



FSJ2-50

Peak Power	13.2 kW
Velocity	83 %
VSWR/Return Loss	

Frequency Band VSWR Return Loss (dB) 2.5–2.7 GHz 1.106 25.96 680–800 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

Page 12 of 13



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

Page 13 of 13

