F2R-DRDR-P

Base Product

FSJ2RK-50 SureFlex® Jumper with interface types 7-16 DIN 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		7-16 DIN Male	
Interface, Connector B		7-16 DIN Male	
Orientation		0°	
Specification Sheet Revision Level		А	
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			
Frequency Band	VSWR	Return Loss (dB)	
698–960 MHz	1.11	26.4	
1700–2200 MHz	1.11	26.4	

26.4

Jumper Assembly Sample Label

1.11

2200-2700 MHz

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F2R-DRDR-P



Environmental Specifications

EN50575 CPR Cable EuroClass Fire Performance	B2ca
EN50575 CPR Cable EuroClass Smoke Rating	s1a
EN50575 CPR Cable EuroClass Droplets Rating	d0
EN50575 CPR Cable EuroClass Acidity Rating	al
Immersion Test Method	Meets IEC 60529:2001, IP68 in mated condition

Included Products

F2TDR-LS	
FSJ2RK-50	

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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 nonhalogenated, fire retardant polyolefin jacket B2ca s1a d0 a1 Compliant



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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

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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

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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 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

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F2TDR-LS

Packaging and Weights

Weight, net

79.34 g | 0.175 lb

Regulatory Compliance/Certifications

Agency

CHINA-ROHS

ROHS UK-ROHS Above maximum concentration value Compliant/Exempted

Compliant/Exempted

Classification



* 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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FSJ2RK-50



FSJ2-50, HELIAX® Superflexible Foam Coaxial Cable, corrugated copper, 3/8 in, black non-halogenated, fire retardant polyolefin jacket B2ca s1a d0 a1 Compliant

5%

Product Classification

Product Type	Coaxial wireless cable
Product Brand	HELIAX® SureFlex®
Product Series	FSJ2-50
General Specifications	
Product Number	520102002/00 SZ520102002/00
Flexibility	Superflexible
Jacket Color	Black
Performance Note	Attenuation values typical, guaranteed within
Dimensions	
Diameter Over Dielectric	7.112 mm 0.28 in
Diameter Over Jacket	10.922 mm 0.43 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	80 pF/m 24.384 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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FSJ2RK-50

Fraguency Band	Vewd	Poturn Loca (dP)
VSWR/Return Loss		
Velocity		83 %
Peak Power		13.2 kW

Frequency Band	VSWR	Return Loss (dB)
680–960 MHz	1.201	20.79
1700-2200 MHz	1.201	20.79
2200-2700 MHz	1.433	14.99

Material Specifications

Dielectric Material	Foam PE
Jacket Material	Non-halogenated, fire retardant polyolefin
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	30
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	-40 °C to +60 °C (-40 °F to +140 °F)
Storage Temperature	-40 °C to +60 °C (-40 °F to +140 °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	B2ca
EN50575 CPR Cable EuroClass Smoke Rating	s1a
EN50575 CPR Cable EuroClass Droplets Rating	d0

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FSJ2RK-50

EN50575 CPR Cable Euro	Class Acidity Rating	al
Fire Retardancy Test Meth	od	IEC 60332-1-2 IEC 60332-3-24 NFPA 130-2010 UL 1666/CATVR /CMR UL 1685
Smoke Index Test Method		IEC 61034
Toxicity Index Test Method		IEC 60754-1 IEC 60754-2
Packaging and W	/eights	
Cable weight		0.13 kg/m 0.087 lb/ft
Regulatory Compliance/Certifications		
Agency	Classification	
CENELEC	EN 50575 compliant, Declaration of Performance (DoP) available	
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	



