

Product Classification

Type N Male Right Angle for 1/4 in FSJ1-50A cable

Product Type	Wireless and radiating connector	
Product Brand	HELIAX®	
Product Series	FSJ1-50A	
General Specifications		
Body Style	Right angle	
Cable Family	FSJ1-50A	
Inner Contact Attachment Method	Captivated	
Inner Contact Plating	Gold	
Interface	N Male	
Mounting Angle	Right angle	
Outer Contact Attachment Method	Self-clamping	
Outer Contact Plating	Trimetal	
Pressurizable	No	
Dimensions		
Height	20.57 mm 0.81 in	
Width	33.02 mm 1.3 in	
Length	51.82 mm 2.04 in	
Diameter	22.35 mm 0.88 in	

Outline Drawing

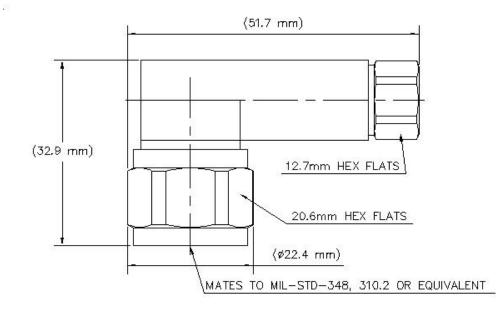
Nominal Size

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1/4 in





Electrical Specifications

3rd Order IMD at Frequency	-112 dBm @ 910 MHz
3rd Order IMD Test Method	Two +43 dBm carriers
Average Power at Frequency	0.4 kW @ 900 MHz
Cable Impedance	50 ohm
Connector Impedance	50 ohm
dc Test Voltage	1600 V
Inner Contact Resistance, maximum	1 mOhm
Insulation Resistance, minimum	5000 MOhm
Operating Frequency Band	0 – 6000 MHz
Outer Contact Resistance, maximum	0.25 m0hm
Peak Power, maximum	6.4 kW
RF Operating Voltage, maximum (vrms)	565 V
Shielding Effectiveness	-110 dB

VSWR/Return Loss

Frequency Band	VSWR	Return Loss (dB)
824–960 MHz	1.08	28.3
1710–1880 MHz	1.106	25.96

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1850–1990 MHz	1.106	25.96
1910–2200 MHz	1.14	23.69
2200–2700 MHz	1.16	22.61
3000-5000 MHz	1.18	21.67
5000-6000 MHz	1.25	19.09

Mechanical Specifications

Connector Retention Tensile Force	449.27 N 101 lbf
Coupling Nut Proof Torque	1.7 N-m 15.046 in lb
Coupling Nut Proof Torque Method	IEC 61169-16:9.3.11
Coupling Nut Retention Force	445 N 100.04 lbf
Coupling Nut Retention Force Method	IEC 61169-16:9.3.11
Insertion Force	124.55 N 28 lbf
Insertion Force Method	IEC 61169-16:9.3.5
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 Method	IEC 60529:2001, IP68
Moisture Resistance Test Method	IEC 60068-2-3
Thermal Shock Test Method	IEC 60068-2-14
Thermal Shock Test Method Vibration Test Method	IEC 60068-2-14 IEC 60068-2-6

Packaging and Weights

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Weight, net

78.65 g | 0.173 lb

Regulatory Compliance/Certifications

Agency

Classification

CHINA-ROHS

ISO 9001:2015

REACH-SVHC

ROHS

UK-ROHS



* Footnotes

Immersion Depth

Below maximum concentration value Designed, manufactured and/or distributed under this quality management system Compliant as per SVHC revision on www.commscope.com/ProductCompliance Compliant

Immersion at specified depth for 24 hours

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