

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

Product Classification

Product TypeWireless and radiating connector

Product Brand HELIAX®
Product Series FSJ1-50A

General Specifications

Body StyleRight angleCable FamilyFSJ1-50AInner Contact Attachment MethodCaptivated

 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

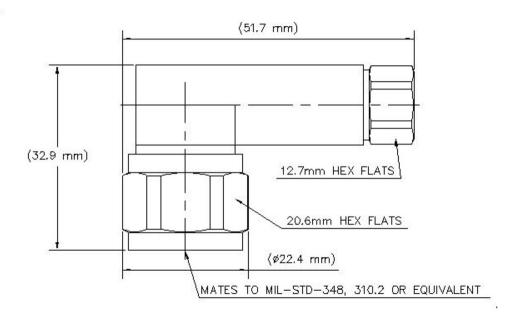
 Length
 51.82 mm | 2.04 in

 Diameter
 22.35 mm | 0.88 in

Nominal Size 1/4 in

Outline Drawing





Electrical Specifications

3rd Order IMD at Frequency-112 dBm @ 910 MHz3rd Order IMD Test MethodTwo +43 dBm carriersAverage Power at Frequency0.4 kW @ 900 MHz

Cable Impedance50 ohmConnector Impedance50 ohmdc Test Voltage1600 VInner Contact Resistance, maximum1 mOhmInsulation Resistance, minimum5000 MOhmOperating Frequency Band0 - 6000 MHzOuter Contact Resistance, maximum0.25 mOhm

 $\begin{array}{lll} \textbf{Peak Power, maximum} & 6.4 \text{ kW} \\ \textbf{RF Operating Voltage, maximum (vrms)} & 565 \text{ V} \\ \textbf{Shielding Effectiveness} & -110 \text{ dB} \\ \end{array}$

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 Force449.27 N | 101 lbfCoupling Nut Proof Torque1.7 N-m | 15.046 in lbCoupling Nut Proof Torque MethodIEC 61169-16:9.3.11Coupling Nut Retention Force445 N | 100.04 lbfCoupling Nut Retention Force MethodIEC 61169-16:9.3.11Insertion Force124.55 N | 28 lbfInsertion Force MethodIEC 61169-16:9.3.5

Interface Durability500 cyclesInterface Durability MethodIEC 61169-4:17Mechanical Shock Test MethodIEC 60068-2-27

Environmental Specifications

Operating Temperature $-55 \,^{\circ}\text{C}$ to $+85 \,^{\circ}\text{C}$ (-67 $^{\circ}\text{F}$ to $+185 \,^{\circ}\text{F}$)Storage Temperature $-65 \,^{\circ}\text{C}$ to $+125 \,^{\circ}\text{C}$ (-85 $^{\circ}\text{F}$ to $+257 \,^{\circ}\text{F}$)

Attenuation, Ambient Temperature20 °C | 68 °FAverage Power, Ambient Temperature40 °C | 104 °FAverage Power, Inner Conductor Temperature100 °C | 212 °FCorrosion Test MethodIEC 60068-2-11

Immersion Depth1 mImmersion Test MatingMated

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 78.65 g | 0.173 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.commscope.com/ProductCompliance

ROHS Compliant

UK-ROHS Compliant/Exempted



* Footnotes

Immersion Depth Immersion at specified depth for 24 hours

