FIPNF



Product Classification

Product Type

Product Brand

General Specifications

Body Style	Straight
Cable Family	FSJ1-50A
Inner Contact Attachment Method	Solder
Inner Contact Plating	Gold
Interface	N Female
Mounting Angle	Straight
Outer Contact Attachment Method	Self-clamping
Outer Contact Plating	Silver
Pressurizable	No
Dimensions	
Height	15.75 mm 0.

neight	13.7511111 0.02111
Width	15.75 mm 0.62 in
Length	55.12 mm 2.17 in
Diameter	15.75 mm 0.62 in
Nominal Size	1/4 in

Outline Drawing

Type N Female for 1/4 in FSJ1-50A cable

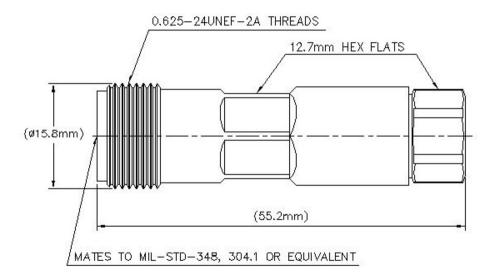
HELIAX® Straight FSJ1-50A Solder Gold N Female Straight Self-clamping Silver No 15.75 mm | 0.62 in 15.75 mm | 0.62 in

Wireless and radiating connector

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Electrical Specifications

3rd Order IMD Test Method Two +43 dBm carriers
Average Power at Frequency0.4 kW @ 900 MHz
Cable Impedance50 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 - 8000 MHz
Outer Contact Resistance, maximum0.25 mOhm
Peak Power, maximum6.4 kW
RF Operating Voltage, maximum (vrms) 565 V
Shielding Effectiveness -110 dB

VSWR/Return Loss

Frequency Band	VSWR	Return Loss (dB)
45–4100 MHz	1.12	25
4100–6200 MHz	1.18	22

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FIPNF

6200-11000 MHz

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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

1.44

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

Packaging and Weights

Weight, net

100.46 g | 0.221 lb

Regulatory Compliance/Certifications

Classification

Agency

CHINA-ROHS

Below maximum concentration value

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FIPNF

ISO 9001:2015

REACH-SVHC



150 9001:2015

* Footnotes

Immersion Depth

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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