

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

Wireless and radiating connector

HELIAX®

FSJ1-50A

Product Classification

Product Type Product Brand

Product Series

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

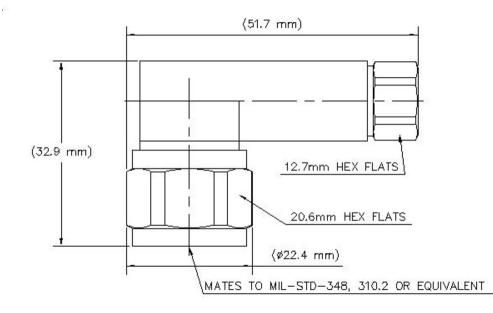
Dimensions

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
Nominal Size	1/4 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	
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
Vibration Test Method	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 Compliant

Immersion at specified depth for 24 hours

