TNC Female for 1/4 in FSJ1-50A cable



Product Classification

Product TypeWireless and radiating connector

Product Brand HELIAX®
Product Series FSJ1-50A

General Specifications

Body Style Straight

Cable Family FSJ1-50A

Inner Contact Attachment Method Captivated

Inner Contact Plating Gold

InterfaceTNC FemaleMounting AngleStraight

Outer Contact Attachment Method

Tab-flare

Outer Contact Plating

Trimetal

Pressurizable

No

Dimensions

 Width
 20.57 mm | 0.81 in

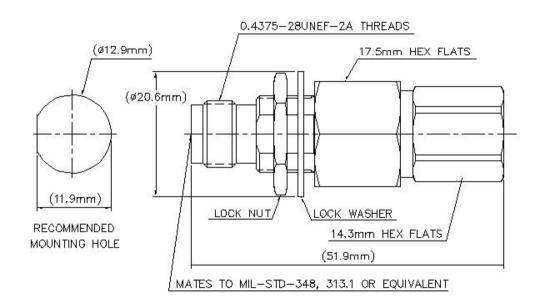
 Length
 51.82 mm | 2.04 in

 Diameter
 20.57 mm | 0.81 in

Nominal Size 1/4 in

Outline Drawing





Electrical Specifications

3rd Order IMD at Frequency-102 dBm @ 910 MHz3rd Order IMD Test MethodTwo +43 dBm carriersAverage Power at Frequency396.0 W @ 900 MHz

Cable Impedance50 ohmConnector Impedance50 ohmdc Test Voltage1500 VInner Contact Resistance, maximum1.5 mOhmInsulation Resistance, minimum5000 MOhmOperating Frequency Band0 - 18000 MHzOuter Contact Resistance, maximum0.4 mOhm

Peak Power, maximum 5 kW

RF Operating Voltage, maximum (vrms) 500 V

Shielding Effectiveness -110 dB

VSWR/Return Loss

Frequency Band	VSWR	Return Loss (dB)
45-3600 MHz	1.15	23.13
3600-7200 MHz	1.2	20.83

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7200-10800 MHz	1.2	20.83
10800-14400 MHz	1.29	17.95
14400-18000 MHz	1.92	10.04

Mechanical Specifications

Attachment Durability 500 cycles

Connector Retention Tensile Force449.27 N | 101 lbfInsertion Force27.98 N | 6.29 lbfInsertion Force MethodIEC 61169-17:9.3.5

Interface Durability 500 cycles

Interface Durability Method IEC 61169-17:17

Mechanical Shock Test Method IEC 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 MethodIEC 60068-2-3Thermal Shock Test MethodIEC 60068-2-14Vibration Test MethodIEC 60068-2-6

Packaging and Weights

Weight, net 56.68 q | 0.125 lb

Regulatory Compliance/Certifications

Agency Classification

ISO 9001:2015 Designed, manufactured and/or distributed under this quality management system



* Footnotes

Immersion Depth Immersion at specified depth for 24 hours