

## Type N Male Positive Lock for 3/8 in FSJ2-50 cable

### **Product Classification**

Product Type Wireless and radiating connector

Product Brand HELIAX®
Product Series FSJ2-50

## General Specifications

Body StyleStraightCable FamilyFSJ2-50Inner Contact Attachment MethodCaptivated

Inner Contact Plating
Silver
N Male
Mounting Angle
Straight
Outer Contact Attachment Method
Crush-flare
Outer Contact Plating
Trimetal
Pressurizable
No

#### Dimensions

 Height
 22.35 mm | 0.88 in

 Width
 22.35 mm | 0.88 in

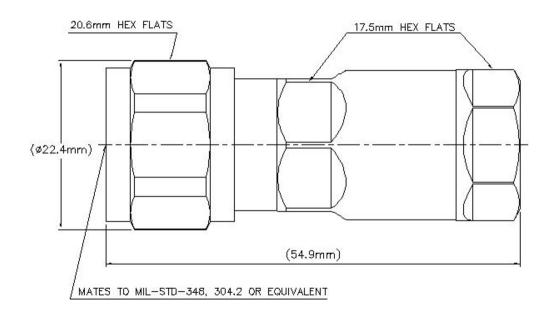
 Length
 54.86 mm | 2.16 in

 Diameter
 22.35 mm | 0.88 in

Nominal Size 3/8 in

## Outline Drawing





## **Electrical Specifications**

**3rd Order IMD at Frequency** -116 dBm @ 1800 MHz

**3rd Order IMD Test Method** Two +43 dBm carriers

Insertion Loss Coefficient, typical 0.05

Average Power at Frequency 0.7 kW @ 900 MHz

Cable Impedance50 ohmConnector Impedance50 ohmdc Test Voltage2300 VInner Contact Resistance, maximum1 m0hm

**Insulation Resistance, minimum** 5000 MOhm

**Operating Frequency Band** 0 - 6000 MHz

Outer Contact Resistance, maximum 0.25 mOhm

Peak Power, maximum10 kWRF Operating Voltage, maximum (vrms)707 VShielding Effectiveness-110 dB

#### VSWR/Return Loss

Frequency Band VSWR Return Loss (dB)

**0–3000 MHz** 1.065 30.04

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**3000–4000 MHz** 1.083 27.99 **4000–6000 MHz** 1.106 25.96

### Mechanical Specifications

Connector Retention Tensile Force671.68 N | 151 lbfConnector Retention Torque2.7 N-m | 23.897 in lbCoupling Nut Proof Torque1.7 N-m | 15.046 in lbCoupling Nut Retention Force449.98 N | 101.16 lbfCoupling Nut Retention Force MethodMIL-C-39012C-3.25, 4.6.22

Insertion Force27.98 N | 6.29 lbfInsertion Force MethodIEC 61169-1:15.2.4

Interface Durability 500 cycles

Interface Durability MethodIEC 61169-16:9.5Mechanical 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 MethodIEC 60068-2-3Thermal Shock Test MethodIEC 60068-2-14Vibration Test MethodIEC 60068-2-6

Packaging and Weights

**Weight, net** 87.43 g | 0.193 lb

## Regulatory Compliance/Certifications

Agency Classification

**COMMSCOPE®** 

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



## \* Footnotes

**Insertion Loss Coefficient, typical** 0.05√ freq (GHz) (not applicable for elliptical waveguide)

**Immersion Depth** Immersion at specified depth for 24 hours

