# F1PNF



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

#### **Product Classification**

**Product Type**Wireless and radiating connector

Product Brand HELIAX®

### General Specifications

Body StyleStraightCable FamilyFSJ1-50AInner Contact Attachment MethodSolderInner Contact PlatingGold

InterfaceN FemaleMounting AngleStraight

Outer Contact Attachment Method Self-clamping

Outer Contact PlatingSilverPressurizableNo

### **Dimensions**

 Height
 0.62 in | 15.748 mm

 Width
 0.62 in | 15.748 mm

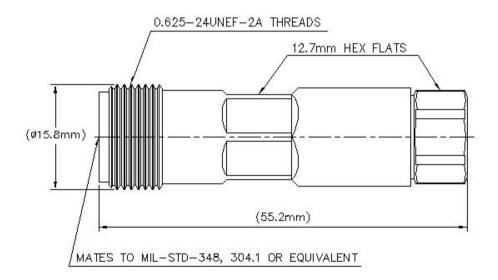
 Length
 2.17 in | 55.118 mm

 Diameter
 0.62 in | 15.748 mm

Nominal Size 1/4 in

# Outline Drawing





# **Electrical Specifications**

**3rd Order IMD at Frequency** -112 dBm @ 910 MHz

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

**Attenuation, Ambient Temperature** 20 °C | 68 °F

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 – 8000 MHz

Outer Contact Resistance, maximum 0.25 mOhm

**COMMSCOPE®** 

# **FIPNE**

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)
45–4100 MHz	1.12	25
4100–6200 MHz	1.18	22
6200–11000 MHz	1.44	15

### Mechanical Specifications

Connector Retention Tensile Force101 lbf | 449.27 NCoupling Nut Proof Torque15.05 in lb | 1.7 N-mCoupling Nut Proof Torque MethodIEC 61169-16:9.3.11Coupling Nut Retention Force100.04 lbf | 445 NCoupling Nut Retention Force MethodIEC 61169-16:9.3.11Insertion Force28 lbf | 124.55 NInsertion 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 °C to +85 °C (-67 °F to +185 °F)Storage Temperature-65 °C to +125 °C (-85 °F to +257 °F)

Average Power, Ambient Temperature  $40 \,^{\circ}\text{C} \mid 104 \,^{\circ}\text{F}$ Average Power, Inner Conductor Temperature  $100 \,^{\circ}\text{C} \mid 212 \,^{\circ}\text{F}$ Corrosion Test Method IEC 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



# F1PNF

Vibration Test Method IEC 60068-2-6

Packaging and Weights

**Weight, net** 100.46 g | 0.221 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



### \* Footnotes

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

