# LIPNF

### Type N Female for 1/4 in LDF1-50 cable

#### **OBSOLETE**

This product was discontinued on: May 18, 2019

Replaced By:

L1TNF-PL Type N Female Positive Lock for 1/4 in LDF1-50 cable

#### **Product Classification**

**Product Type** Wireless and radiating connector

Product Brand HELIAX®

General Specifications

Body StyleStraightCable FamilyLDF1-50Inner Contact Attachment MethodSolderInner Contact PlatingGold

InterfaceN FemaleMounting AngleStraightOuter Contact Attachment MethodSelf-flareOuter Contact PlatingSilverPressurizableNo

#### **Dimensions**

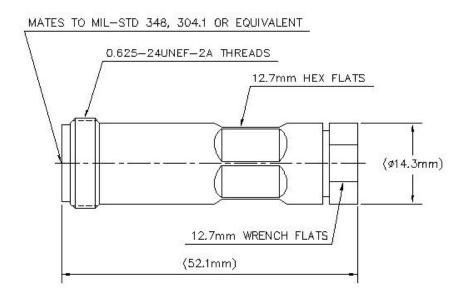
 Length
 52.07 mm | 2.05 in

 Diameter
 21.84 mm | 0.86 in

Nominal Size 1/4 in

## Outline Drawing





## **Electrical Specifications**

3rd Order IMD at Frequency-112 dBm @ 910 MHz3rd Order IMD Test MethodTwo +43 dBm carriersAverage Power at Frequency0.6 kW @ 900 MHz

Cable Impedance50 ohmConnector Impedance50 ohmdc Test Voltage2200 VInner Contact Resistance, maximum1 mOhmInsulation Resistance, minimum5000 MOhmOperating Frequency Band0 - 12000 MHzOuter Contact Resistance, maximum0.25 mOhm

Peak Power, maximum 10 kW RF Operating Voltage, maximum (vrms) 707 V Shielding Effectiveness -110 dB

# VSWR/Return Loss

Frequency Band	VSWR	Return Loss (dB)
45-4100 MHz	1.119	25.01
4100-6200 MHz	1.152	23.02

**COMMSCOPE®** 

# **L1PNF**

**6200–12000 MHz** 1.33 17

### Mechanical Specifications

Connector Retention Tensile Force449.27 N | 101 lbfCoupling Nut Proof Torque MethodIEC 61169-16:9.3.11Coupling Nut Retention Force445 N | 100.04 lbfCoupling Nut Retention Force MethodIEC 61169-16:9.3.11Insertion Force124.55 N | 28 lbfInsertion Force MethodIEC 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 $-55 \,^{\circ}\text{C}$  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** 80 g | 0.176 lb

\* Footnotes

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

