# L1TNR-PL



### Type N Male Right Angle Positive Lock for 1/4 in LDF1-50 cable

#### **Product Classification**

**Product Type**Wireless and radiating connector

Product Brand HELIAX®
Product Series LDF1-50

### General Specifications

Body Style Right angle
Cable Family LDF1-50
Inner Contact Attachment Method Captivated
Inner Contact Plating Silver
Interface N Male
Mounting Angle Right angle
Outer Contact Attachment Method Self-flare

#### **Dimensions**

**Pressurizable** 

**Outer Contact Plating** 

 Height
 34.54 mm | 1.36 in

 Width
 22.35 mm | 0.88 in

 Length
 56.39 mm | 2.22 in

 Right Angle Length
 34.54 mm | 1.36 in

 Diameter
 22.35 mm | 0.88 in

Nominal Size 1/4 in

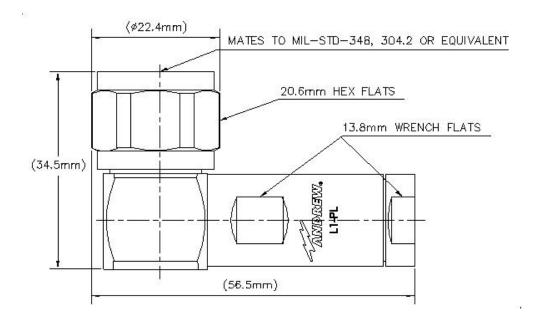
## Outline Drawing



Trimetal

No

# LITNR-PL



## **Electrical Specifications**

**3rd Order IMD at Frequency**-107 dBm @ 910 MHz **3rd Order IMD Test Method**Two +43 dBm carriers

Insertion Loss Coefficient, typical 0.05

Average Power at Frequency 0.6 kW @ 900 MHz

Cable Impedance50 ohmConnector Impedance50 ohmdc Test Voltage2200 VInner Contact Resistance, maximum1 mOhmInsulation Resistance, minimum5000 MOhm

**Operating Frequency Band** 0 - 6000 MHz

Outer Contact Resistance, maximum 0.25 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)

**45–920 MHz** 1.041 33.94

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920-2700 MHz	1.041	33.94
2600-4000 MHz	1.065	30.04
4000-6000 MHz	1.065	30.04

#### Mechanical Specifications

Attachment Durability 25 cycles

Connector Retention Tensile Force449.27 N | 101 lbfCoupling 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 Method IEC 61169-16:9.5

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** 106.09 g | 0.234 lb

Regulatory Compliance/Certifications

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#### 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 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

