# F2TNM-PL



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

#### **Product Classification**

Brand HELIAX®

**Product Type**Wireless and radiating connector

# General Specifications

InterfaceN MaleBody StyleStraightMounting AngleStraight

# **Electrical Specifications**

Connector Impedance50 ohmOperating Frequency Band0 - 6000 MHzCable Impedance50 ohm

3rd Order IMD, typical -116 dBm @ 1800 MHz
3rd Order IMD Test Method Two +43 dBm carriers

RF Operating Voltage, maximum (vrms) 707.00 V
dc Test Voltage 2300 V
Outer Contact Resistance, maximum 0.25 mOhm
Inner Contact Resistance, maximum 1.00 mOhm
Insulation Resistance, minimum 5000 MOhm

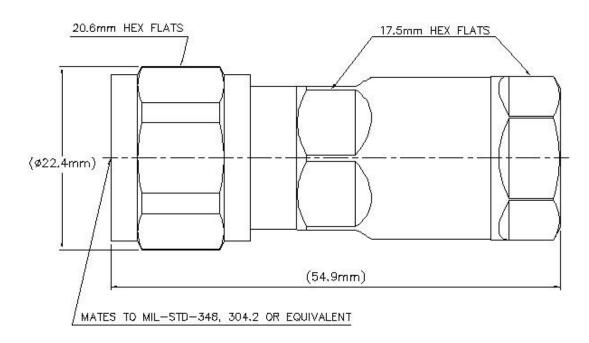
Average Power 0.7 kW @ 900 MHz

Peak Power, maximum10.00 kWInsertion Loss, typical0.05 dBShielding Effectiveness-110 dB

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# Outline Drawing



IEC 61169-1:15.2.4

# Mechanical Specifications

Crush-flare **Outer Contact Attachment Method Inner Contact Attachment Method** Captivated **Outer Contact Plating** Trimetal **Inner Contact Plating** Silver Interface Durability 500 cycles Interface Durability Method IEC 61169-16:9.5 670 N | 151 lbf **Connector Retention Tensile Force Connector Retention Torque** 2.70 N-m | 1.99 ft lb Insertion Force 28.00 N | 6.29 lbf

**Pressurizable** No

Coupling Nut Proof Torque1.70 N-m1.25 ft lbCoupling Nut Retention Force450.00 N101.16 lbfCoupling Nut Retention Force MethodMIL-C-39012C-3.25, 4.6.22

# **Dimensions**

**Insertion Force Method** 

Nominal Size 3/8 in

**Diameter** 22.35 mm | 0.88 in

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Height	22.35 mm	0.88 in
Length	54.85 mm	2.16 in
Weight	87.43 g	0.19 lb
Width	22.35 mm	0.88 in

## **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  $+257 \,^{\circ}\text{F}$ )

Immersion Depth1 mImmersion Test MatingMated

Immersion Test Method IEC 60529:2001, IP68

Moisture Resistance Test MethodIEC 60068-2-3Mechanical Shock Test MethodIEC 60068-2-27Thermal Shock Test MethodIEC 60068-2-14Vibration Test MethodIEC 60068-2-6Corrosion Test MethodIEC 60068-2-11

#### Standard Conditions

Attenuation, Ambient Temperature  $20 \,^{\circ}\text{C}$  |  $68 \,^{\circ}\text{F}$  Average Power, Ambient Temperature  $40 \,^{\circ}\text{C}$  |  $104 \,^{\circ}\text{F}$  Average Power, Inner Conductor Temperature  $100 \,^{\circ}\text{C}$  |  $212 \,^{\circ}\text{F}$ 

#### Return Loss/VSWR

Frequency Band	VSWR	Return Loss (dB)
0–3000 MHz	1.07	30.00
3000-4000 MHz	1.08	28.00
4000-6000 MHz	1.11	26.00

# Regulatory Compliance/Certifications

#### Agency

#### Classification

RoHS 2011/65/EU

Compliant by Exemption

ISO 9001:2015

Designed, manufactured and/or distributed under this quality management system

China RoHS SJ/T 11364-2014 Above Maximum Concentration Value (MCV)







# \* Footnotes

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

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**Insertion Loss, typical** 0.05v<sup>-</sup>freq (GHz) (not applicable for elliptical waveguide)

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