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

Interface N Male **Body Style** Straight **Mounting Angle** Straight

Electrical Specifications

Average Power

Connector Impedance 50 ohm 0 - 6000 MHz **Operating Frequency Band Cable Impedance** 50 ohm

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

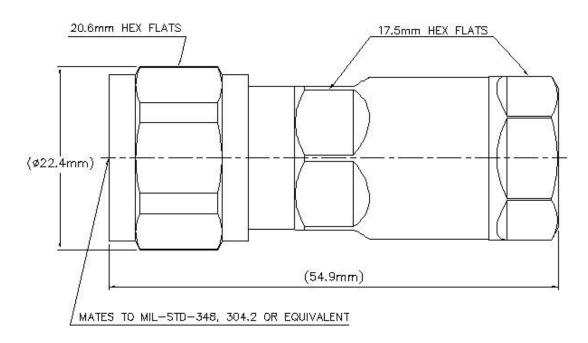
RF Operating Voltage, maximum (vrms) 707.00 V dc Test Voltage 2300 V **Outer Contact Resistance, maximum** 0.25 mOhm Inner Contact Resistance, maximum 1.00 mOhm Insulation Resistance, minimum 5000 MOhm 0.7 kW @ 900 MHz

Peak Power, maximum 10.00 kW Insertion Loss, typical 0.05 dB **Shielding Effectiveness** -110 dB

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Outline Drawing



IEC 61169-1:15.2.4

Mechanical Specifications

Outer Contact Attachment Method Crush-flare **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 °C to +85 °C (-67 °F to +185 °F)Storage Temperature-65 °C to +125 °C (-85 °F to +257 °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

Above Maximum Concentration Value (MCV)





China RoHS SJ/T 11364-2014



* Footnotes

Immersion Depth Immersion at specified depth for 24 hours

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Insertion Loss, typical 0.05v⁻freq (GHz) (not applicable for elliptical waveguide)

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