F2TNM-PL



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

Product Classification

Product TypeWireless and radiating connector

Product Brand HELIAX®

General Specifications

Body Style Straight

Cable Family FSJ2-50

Inner Contact Attachment Method Captivated

Inner Contact Plating Silver

Interface N. Male

InterfaceN MaleMounting AngleStraightOuter Contact Attachment MethodCrush-flare

Outer Contact Plating Trimetal

Pressurizable No

Dimensions

 Height
 22.35 mm | 0.88 in

 Width
 22.35 mm | 0.88 in

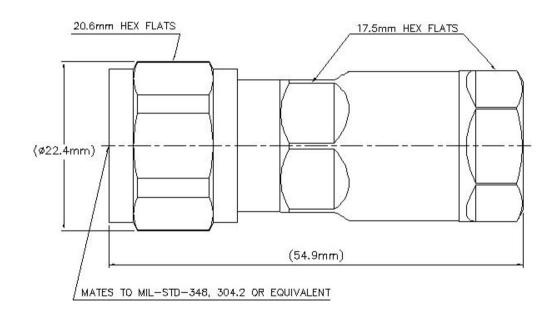
 Length
 54.86 mm | 2.16 in

 Diameter
 22.35 mm | 0.88 in

Nominal Size 3/8 in

Outline Drawing





Electrical Specifications

3rd Order IMD at Frequency -116 dBm @ 1800 MHz

3rd Order IMD Test Method Two +43 dBm carriers

Insertion Loss, typical 0.05 dB

Average Power at Frequency 0.7 kW @ 900 MHz

Cable Impedance50 ohmConnector Impedance50 ohmdc Test Voltage2300 VInner Contact Resistance, maximum1 mOhm

Insulation Resistance, minimum 5000 MOhm

Operating Frequency Band 0 – 6000 MHz

Outer Contact Resistance, maximum 0.25 mOhm

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

VSWR/Return Loss

Frequency Band	VSWR	Return Loss (dB)
0–3000 MHz	1.07	30
3000–4000 MHz	1.09	28
4000-6000 MHz	1.11	26

Mechanical Specifications

Connector Retention Tensile Force 671.68 N | 151 lbf **Connector Retention Torque** 2.7 N-m | 23.897 in lb **Coupling Nut Proof Torque** 1.7 N-m | 15.046 in lb **Coupling Nut Retention Force** 449.98 N | 101.16 lbf **Coupling Nut Retention Force Method** MIL-C-39012C-3.25, 4.6.22

Insertion Force 27.98 N | 6.29 lbf **Insertion Force Method** IEC 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 °C to +85 °C (-67 °F to +185 °F) **Storage Temperature** -65 °C to +125 °C (-85 °F to +257 °F)

20 °C | 68 °F **Attenuation, Ambient Temperature Average Power, Ambient Temperature** 40 °C | 104 °F 100 °C | 212 °F **Average Power, Inner Conductor Temperature Corrosion Test Method** IEC 60068-2-11

Immersion Depth 1 m **Immersion Test Mating** Mated

Immersion Test Method IEC 60529:2001, IP68

Moisture Resistance Test Method IEC 60068-2-3

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Thermal Shock Test Method IEC 60068-2-14

Vibration Test Method IEC 60068-2-6

Packaging and Weights

Weight, net 87.43 g | 0.193 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

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