

# F1PNMV2-H

Type N Male for 1/4 in FSJ1-50A cable



**OBSOLETE**

**Replaced By:**

F1PNM-HC	Type N Male for 1/4 in FSJ1-50A cable
F1TNM-HC	Type N Male for 1/4 in FSJ1-50A cable
F1TNM-HC-G	Type N Male for 1/4 in FSJ1-50A cable
F1TQM-HC	QMA Male connector for 1/4 in FSJ1-50A cable

## Product Classification

Product Type	Wireless and radiating connector
Product Brand	HELIAX®

## General Specifications

Body Style	Straight
Cable Family	FSJ1-50A
Inner Contact Attachment Method	Solder
Inner Contact Plating	Gold
Interface	N Male
Mounting Angle	Straight
Outer Contact Attachment Method	Self-clamping
Outer Contact Plating	Silver
Pressurizable	No

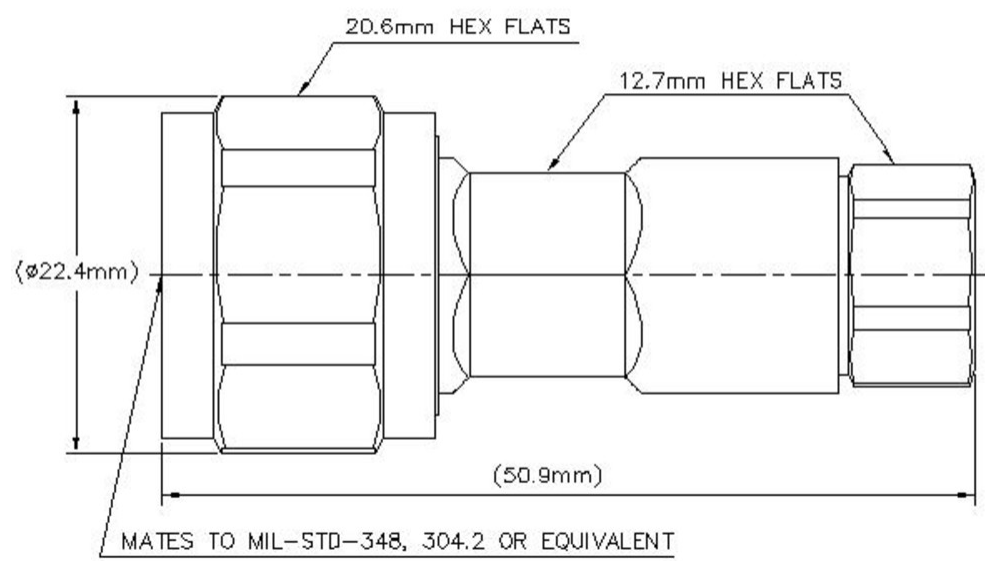
## Dimensions

Height	20.57 mm   0.81 in
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Width	22.35 mm   0.88 in
Length	50.8 mm   2 in
Diameter	22.35 mm   0.88 in
Nominal Size	1/4 in

## Outline Drawing



## Electrical Specifications

3rd Order IMD at Frequency	-112 dBm @ 910 MHz
3rd Order IMD Test Method	Two +43 dBm carriers
Average Power at Frequency	0.4 kW @ 900 MHz
Cable Impedance	50 ohm
Connector Impedance	50 ohm
dc Test Voltage	1600 V
Inner Contact Resistance, maximum	1 mOhm
Insulation Resistance, minimum	5000 MOhm
Operating Frequency Band	0 – 6000 MHz
Outer Contact Resistance, maximum	0.25 mOhm
Peak Power, maximum	6.4 kW
RF Operating Voltage, maximum (vrms)	565 V

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<b>Shielding Effectiveness</b>	-110 dB
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## Mechanical Specifications

<b>Connector Retention Tensile Force</b>	449.27 N   101 lbf
<b>Coupling Nut Proof Torque</b>	1.7 N-m   15.046 in lb
<b>Coupling Nut Proof Torque Method</b>	IEC 61169-16:9.3.11
<b>Coupling Nut Retention Force</b>	445 N   100.04 lbf
<b>Coupling Nut Retention Force Method</b>	IEC 61169-16:9.3.11
<b>Insertion Force</b>	124.55 N   28 lbf
<b>Insertion Force Method</b>	IEC 61169-16:9.3.5
<b>Interface Durability</b>	500 cycles
<b>Interface Durability Method</b>	IEC 61169-4:17
<b>Mechanical Shock Test Method</b>	IEC 60068-2-27

## Environmental Specifications

<b>Operating Temperature</b>	-55 °C to +85 °C (-67 °F to +185 °F)
<b>Storage Temperature</b>	-65 °C to +125 °C (-85 °F to +257 °F)
<b>Attenuation, Ambient Temperature</b>	20 °C   68 °F
<b>Average Power, Ambient Temperature</b>	40 °C   104 °F
<b>Average Power, Inner Conductor Temperature</b>	100 °C   212 °F
<b>Corrosion Test Method</b>	IEC 60068-2-11
<b>Immersion Depth</b>	1 m
<b>Immersion Test Mating</b>	Mated
<b>Immersion Test Method</b>	IEC 60529:2001, IP68
<b>Moisture Resistance Test Method</b>	IEC 60068-2-3
<b>Thermal Shock Test Method</b>	IEC 60068-2-14
<b>Vibration Test Method</b>	IEC 60068-2-6

## Packaging and Weights

<b>Weight, net</b>	104.29 g   0.23 lb
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## \* Footnotes

<b>Immersion Depth</b>	Immersion at specified depth for 24 hours
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