# F4TNMV2-HC

#### Type N Male for 1/2 in FSJ4-50B cable

#### **OBSOLETE**

This product was discontinued on: April 15, 2008

Replaced By:

F4NF-PSB Type N Female Positive Stop™ Black Series for 1/2 in FSJ4-50B cable

F4NM-PSB Type N Male Positive Stop™ Black Series for 1/2 in FSJ4-50B cable

#### **Product Classification**

Product Type Wireless and radiating connector

Product Brand HELIAX®

General Specifications

Body StyleStraightCable FamilyFSJ4-50BInner Contact Attachment MethodCaptivated

 Inner Contact Plating
 Gold

 Interface
 N Male

 Mounting Angle
 Straight

 Outer Contact Attachment Method
 Self-flare

 Outer Contact Plating
 Trimetal

 Pressurizable
 No

**Dimensions** 

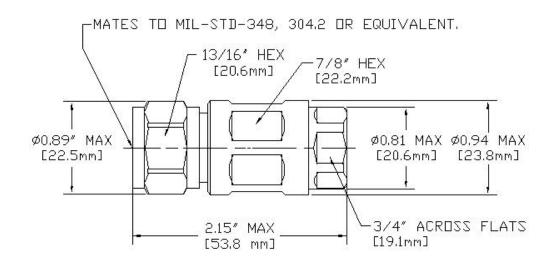
 Length
 54.1 mm | 2.13 in

 Diameter
 24.13 mm | 0.95 in

Nominal Size 1/2 in

### Outline Drawing





#### **Electrical Specifications**

3rd Order IMD at Frequency -120 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 Impedance** 50 ohm **Connector Impedance** 50 ohm 2000 V dc Test Voltage Inner Contact Resistance, maximum 2 m0hm Insulation Resistance, minimum 5000 MOhm **Operating Frequency Band** 0 - 12000 MHz **Outer Contact Resistance, maximum** 0.3 mOhm Peak Power, maximum 10 kW RF Operating Voltage, maximum (vrms) 707 V

#### VSWR/Return Loss

**Shielding Effectiveness** 

Frequency Band VSWR Return Loss (dB)

**0–1000 MHz** 1.032 36.06

**COMMSCOPE®** 

-110 dB

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**1010–2000 MHz** 1.036 35.05 **2010–3000 MHz** 1.083 27.99

#### Mechanical Specifications

Attachment Durability 25 cycles

**Connector Retention Tensile Force** 889.64 N | 200 lbf

Connector Retention Torque5.42 N-m | 47.998 in lbCoupling Nut Proof Torque4.52 N-m | 39.997 in lbCoupling Nut Retention Force444.82 N | 100 lbf

Coupling Nut Retention Force Method MIL-C-39012C-3.25, 4.6.22

**Insertion Force** 66.72 N | 15 lbf

**Insertion Force Method** MIL-C-39012C-3.12, 4.6.9

Interface Durability 500 cycles

Interface Durability Method IEC 61169-16:9.5

Mechanical Shock Test Method MIL-STD-202F, Method 213B, Test Condition C

#### **Environmental Specifications**

Operating Temperature-55 °C to +85 °C (-67 °F to +185 °F)Storage Temperature-55 °C to +85 °C (-67 °F to +185 °F)

Attenuation, Ambient Temperature  $20 \, ^{\circ}\text{C} \mid 68 \, ^{\circ}\text{F}$ Average Power, Ambient Temperature  $40 \, ^{\circ}\text{C} \mid 104 \, ^{\circ}\text{F}$ 

Corrosion Test Method MIL-STD-1344A, Method 1001.1, Test Condition A

Immersion Depth0.305 mImmersion Test MatingMated

**Immersion Test Method** IEC 60529:2001, IP68

Moisture Resistance Test Method MIL-STD-202F, Method 106F

**Thermal Shock Test Method** MIL-STD-202F, Method 107G, Test Condition A-1, Low Temperature -55 °C

Vibration Test Method MIL-STD-202F, Method 204D, Test Condition B

Water Jetting Test Mating Mated

Water Jetting Test Method IEC 60529:2001, IP66

Packaging and Weights

**Weight, net** 108 g | 0.238 lb



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#### \* Footnotes

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

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

