F4PNMV2-HC



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

Product Classification

Brand HELIAX®

Product Type Wireless and radiating connector

General Specifications

InterfaceN MaleBody StyleStraightMounting AngleStraight

Ordering Note CommScope® standard product (Global)

Electrical Specifications

Connector Impedance 50 ohm

Operating Frequency Band0 - 12000 MHzAverage Power at Frequency0.6 kW @ 900 MHz

Cable Impedance 50 ohm

3rd Order IMD, typical -120 dBm @ 910 MHz
3rd Order IMD Test Method Two +43 dBm carriers

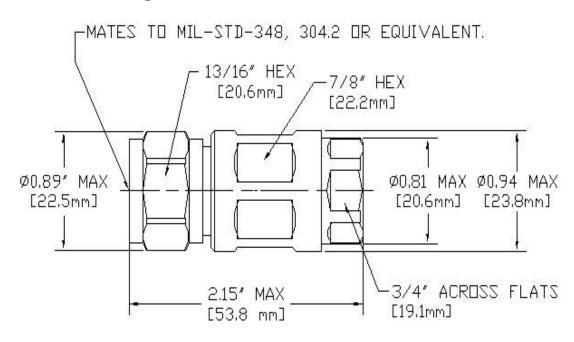
RF Operating Voltage, maximum (vrms) 707.00 V
dc Test Voltage 2000 V

Outer Contact Resistance, maximum 2.00 mOhm
Inner Contact Resistance, minimum 5000 MOhm
Peak Power, maximum 10.00 kW
Insertion Loss, typical 0.05 dB
Shielding Effectiveness -110 dB

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Outline Drawing



Mechanical Specifications

Outer Contact Attachment Method
Inner Contact Attachment Method
Outer Contact Plating
Inner Contact Plating
Attachment Durability
Interface Durability Method

Crush-flare
Captivated
Trimetal
Gold
25 cycles
Interface Durability
IEC 61169-16:9.5

Connector Retention Tensile Force890 N | 200 lbfConnector Retention Torque5.42 N-m | 48.00 in lbInsertion Force66.72 N | 15.00 lbfInsertion Force MethodMIL-C-39012C-3.12, 4.6.9

Pressurizable No

Coupling Nut Proof Torque 4.52 N-m | 40.00 in lb Coupling Nut Retention Force 444.82 N | 100.00 lbf Coupling Nut Retention Force Method MIL-C-39012C-3.25, 4.6.22

Dimensions

Nominal Size 1/2 in

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 Diameter
 24.00 mm | 0.95 in

 Length
 54.00 mm | 2.13 in

 Weight
 90.72 g | 0.20 lb

Environmental Specifications

Operating Temperature $-55 \,^{\circ}\text{C}$ to $+85 \,^{\circ}\text{C}$ (-67 $^{\circ}\text{F}$ to $+185 \,^{\circ}\text{F}$)

Storage Temperature $-55 \,^{\circ}\text{C}$ to $+85 \,^{\circ}\text{C}$ (-67 $^{\circ}\text{F}$ to $+185 \,^{\circ}\text{F}$)

Immersion Depth1 mImmersion Test MatingMated

Immersion Test Method IEC 60529:2001, IP68

Water Jetting Test Mating Mated

Water Jetting Test Method IEC 60529:2001, IP66

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

Mechanical Shock Test Method

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

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

Vibration Test MethodMIL-STD-202F, Method 204D, Test Condition BCorrosion Test MethodMIL-STD-1344A, Method 1001.1, Test Condition A

Standard Conditions

Attenuation, Ambient Temperature 20 °C | 68 °F **Average Power, Ambient Temperature** 40 °C | 104 °F

Return Loss/VSWR

Frequency Band	VSWR	Return Loss (dB)
0-1000 MHz	1.03	36.00
1010-2000 MHz	1.04	35.00
2010-3000 MHz	1.08	28.00

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 0.05√freq (GHz) (not applicable for elliptical waveguide)

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