F4PNR-HC



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

OBSOLETE

Replaced By:

F4NR-HC Type N Male Right Angle for 1/2 in FSJ4-50B cable

Product Classification

Product Type Wireless and radiating connector

Product Brand HELIAX®

General Specifications

Body StyleRight angleCable FamilyFSJ4-50BInner Contact Attachment MethodCaptivated

Inner Contact PlatingGoldInterfaceN MaleMounting AngleRight at

Mounting AngleRight angleOuter Contact Attachment MethodCrush-flareOuter Contact PlatingTrimetalPressurizableNo

Dimensions

Width 25.4 mm | 1 in

 Length
 71.88 mm | 2.83 in

 Right Angle Length
 40.64 mm | 1.6 in

 Diameter
 25.91 mm | 1.02 in

COMMSCOPE®

F4PNR-HC

Nominal Size 1/2 in

Electrical Specifications

3rd Order IMD at Frequency-120 dBm @ 910 MHz3rd Order IMD Test MethodTwo +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 dc Test Voltage 2000 V Inner Contact Resistance, maximum 2 m0hm Insulation Resistance, minimum 5000 MOhm **Operating Frequency Band** 0 - 4500 MHz **Outer Contact Resistance, maximum** 0.3 m0hm 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)
0-1200 MHz	1.023	38.89
1200-1500 MHz	1.058	31
1500-2000 MHz	1.083	27.99
2000-4500 MHz	1.135	23.98

Mechanical Specifications

Attachment Durability 25 cycles

Connector Retention Tensile Force889.64 N | 200 lbfConnector 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



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

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

Attenuation, Ambient Temperature $20~^{\circ}\text{C} \mid 68~^{\circ}\text{F}$

Average Power, Ambient Temperature 40 °C | 104 °F

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

Immersion Depth 1 m

Immersion Test Mating Mated

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 185.98 g | 0.41 lb

* Footnotes

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

Immersion Depth Immersion at specified depth for 24 hours

