



## F4PNR-HC

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

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### General Specifications

Interface	N Male
Body Style	Right angle
Brand	HELIAX®
Mounting Angle	Right angle

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### Electrical Specifications

Connector Impedance	50 ohm
Operating Frequency Band	0 – 4500 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	0.30 mOhm
Inner Contact Resistance, maximum	2.00 mOhm
Insulation Resistance, minimum	5000 MOhm
Average Power	0.6 kW @ 900 MHz
Peak Power, maximum	10.00 kW
Insertion Loss, typical	0.05 dB
Shielding Effectiveness	-110 dB

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### Outline Drawing

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### Mechanical Specifications

Outer Contact Attachment Method	Crush-flare
Inner Contact Attachment Method	Captivated
Outer Contact Plating	Trimetal
Inner Contact Plating	Gold

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Attachment Durability	25 cycles
Interface Durability	500 cycles
Interface Durability Method	IEC 61169-16:9.5
Connector Retention Tensile Force	890 N   200 lbf
Connector Retention Torque	5.42 N-m   48.00 in lb
Insertion Force	66.72 N   15.00 lbf
Insertion Force Method	MIL-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
Diameter	26.01 mm   1.02 in
Length	71.91 mm   2.83 in
Right Angle Length	40.64 mm   1.60 in
Weight	185.98 g   0.41 lb
Width	25.40 mm   1.00 in

## 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)
Immersion Depth	1 m
Immersion Test Mating	Mated
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 Method	MIL-STD-202F, Method 204D, Test Condition B
Corrosion Test Method	MIL-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)
0–1200 MHz	1.02	39.00
1200–1500 MHz	1.06	31.00
1500–2000 MHz	1.08	28.00
2000–4500 MHz	1.13	24.00

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## Regulatory Compliance/Certifications

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### Agency

RoHS 2011/65/EU

China RoHS SJ/T 11364-2006

### Classification

Compliant by Exemption

Above Maximum Concentration Value (MCV)



### \* Footnotes

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Immersion Depth	Immersion at specified depth for 24 hours
Insertion Loss, typical	0.05v <sup>-</sup> freq (GHz) (not applicable for elliptical waveguide)