

# L4PNM-H

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Type N Male for 1/2 in LDF4-50A cable. Only available through distribution

## Product Classification

<b>Product Type</b>	Wireless and radiating connector
<b>Product Brand</b>	HELIAX®
<b>Product Series</b>	LDF4-50A
<b>Ordering Note</b>	ANDREW® non-standard product

## General Specifications

<b>Body Style</b>	Straight
<b>Cable Family</b>	LDF4-50A
<b>Inner Contact Attachment Method</b>	Solder
<b>Inner Contact Plating</b>	Gold
<b>Interface</b>	N Male
<b>Mounting Angle</b>	Straight
<b>Outer Contact Attachment Method</b>	Self-flare
<b>Outer Contact Plating</b>	Trimetal
<b>Pressurizable</b>	No

## Dimensions

<b>Length</b>	66.04 mm   2.6 in
<b>Diameter</b>	25.4 mm   1 in
<b>Nominal Size</b>	1/2 in

## Electrical Specifications

<b>Insertion Loss Coefficient, typical</b>	0.05
<b>Cable Impedance</b>	50 ohm
<b>Connector Impedance</b>	50 ohm
<b>Inner Contact Resistance, maximum</b>	2 mOhm
<b>Operating Frequency Band</b>	0 – 8800 MHz

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<b>Outer Contact Resistance, maximum</b>	0.3 mOhm
<b>RF Operating Voltage, maximum (vrms)</b>	707 V

## VSWR/Return Loss

<b>Frequency Band</b>	<b>VSWR</b>	<b>Return Loss (dB)</b>
<b>3.5–4.4 GHz</b>	1.152	23.02
<b>45–920 MHz</b>	1.036	35.05
<b>920–2700 MHz</b>	1.058	31
<b>2700–3500 MHz</b>	1.106	25.96
<b>4400–5300 MHz</b>	1.196	20.99
<b>5300–6200 MHz</b>	1.222	20.01
<b>6200–8800 MHz</b>	1.29	18

## Mechanical Specifications

<b>Attachment Durability</b>	25 cycles
<b>Connector Retention Tensile Force</b>	889.64 N   200 lbf
<b>Connector Retention Torque</b>	5.42 N-m   47.998 in lb
<b>Coupling Nut Proof Torque</b>	4.52 N-m   39.997 in lb
<b>Coupling Nut Retention Force</b>	444.82 N   100 lbf
<b>Coupling Nut Retention Force Method</b>	MIL-C-39012C-3.25, 4.6.22
<b>Interface Durability</b>	500 cycles
<b>Interface Durability Method</b>	IEC 61169-16:9.5

## Environmental Specifications

<b>Attenuation, Ambient Temperature</b>	20 °C   68 °F
<b>Average Power, Ambient Temperature</b>	40 °C   104 °F

## Packaging and Weights

<b>Weight, net</b>	108.86 g   0.24 lb
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## Regulatory Compliance/Certifications

<b>Agency</b>	<b>Classification</b>
CHINA-ROHS	Below maximum concentration value
ISO 9001:2015	Designed, manufactured and/or distributed under this quality management system

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ROHS Compliant

UK-ROHS Compliant



## \* Footnotes

**Insertion Loss Coefficient, typical**  $0.05\sqrt{\text{freq (GHz)}}$  (not applicable for elliptical waveguide)