

#### Type N Female for 7/8 in LDF5-50A cable

OBSOLETE This product was discontinued on: April 23, 2009

#### Product Classification

Product Type	Wireless and radiating connector	
Product Brand	HELIAX®	
General Specifications		
Body Style	Straight	
Cable Family	LDF5-50A	
Inner Contact Attachment Method	Self-tapping	
Inner Contact Plating	Gold	
Interface	N Female	
Mounting Angle	Straight	
Outer Contact Attachment Method	Self-flare	
Outer Contact Plating	Trimetal	
Pressurizable	No	
Dimensions		
Length	73.66 mm   2.9 in	
Diameter	35.56 mm   1.4 in	
Nominal Size	7/8 in	
Electrical Specifications		
Insertion Loss Coefficient, typical	0.05	

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# L5PNF

Cable Impedance	50 ohm
Connector Impedance	50 ohm
dc Test Voltage	2000 V
Inner Contact Resistance, maximum	2 mOhm
Operating Frequency Band	0 – 5000 MHz
Outer Contact Resistance, maximum	0.3 m0hm
Peak Power, maximum	10 kW
RF Operating Voltage, maximum (vrms)	707 V

# VSWR/Return Loss

Frequency Band	VSWR	Return Loss (dB)
45–1000 MHz	1.065	30.04
1000–2000 MHz	1.094	26.96
2000–2500 MHz	1.106	25.96
2500-5000 MHz	1.135	23.98

# Mechanical Specifications

Attachment Durability	25 cycles
Connector Retention Tensile Force	889.64 N   200 lbf
Connector Retention Torque	8.14 N-m   72.001 in lb
Interface Durability	500 cycles
Interface Durability Method	IEC 61169-16:9.5

## **Environmental Specifications**

Attenuation, Ambient Temperature	20 °C   68 °F
Average Power, Ambient Temperature	40 °C   104 °F
Packaging and Weights	
Weight, net	118 g   0.26 lb

## \* Footnotes

Insertion Loss Coefficient, typical 0.05√<sup>-</sup>freq (GHz) (not applicable for elliptical waveguide)

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