



## L2TNF-PL

**Type N Female Positive Lock for 3/8 in LDF2-50 cable**

### General Specifications

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Interface	N Female
Body Style	Straight
Brand	HELIAX®
Mounting Angle	Straight

### Electrical Specifications

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Connector Impedance	50 ohm
Operating Frequency Band	0 – 12000 MHz
Cable Impedance	50 ohm
3rd Order IMD, typical	-112 dBm @ 910 MHz
3rd Order IMD Test Method	Two +43 dBm carriers
RF Operating Voltage, maximum (vrms)	707.00 V
dc Test Voltage	2500 V
Outer Contact Resistance, maximum	0.25 mOhm
Inner Contact Resistance, maximum	1.00 mOhm
Insulation Resistance, minimum	5000 MOhm
Average Power	0.7 kW @ 900 MHz
Peak Power, maximum	10.00 kW
Insertion Loss, typical	0.05 dB
Shielding Effectiveness	-110 dB

## Outline Drawing



## Mechanical Specifications

Outer Contact Attachment Method	Ring-flare
Inner Contact Attachment Method	Captivated
Outer Contact Plating	Trimetal
Inner Contact Plating	Silver
Attachment Durability	25 cycles
Interface Durability	500 cycles
Interface Durability Method	IEC 61169-16:9.5
Connector Retention Tensile Force	670 N   151 lbf
Connector Retention Torque	2.70 N-m   1.99 ft lb
Insertion Force	28.00 N   6.29 lbf
Insertion Force Method	IEC 61169-1:15.2.4
Pressurizable	No

## Dimensions

Nominal Size	3/8 in
Diameter	16.30 mm   0.64 in
Height	16.30 mm   0.64 in
Length	49.23 mm   1.94 in
Weight	43.34 g   0.10 lb
Width	16.30 mm   0.64 in

## Environmental Specifications

Operating Temperature	-55 °C to +85 °C (-67 °F to +185 °F)
Storage Temperature	-65 °C to +125 °C (-85 °F to +257 °F)
Immersion Depth	1 m
Immersion Test Mating	Mated
Immersion Test Method	IEC 60529:2001, IP68
Moisture Resistance Test Method	IEC 60068-2-3
Mechanical Shock Test Method	IEC 60068-2-27
Thermal Shock Test Method	IEC 60068-2-14
Vibration Test Method	IEC 60068-2-6
Corrosion Test Method	IEC 60068-2-11

## Standard Conditions

Attenuation, Ambient Temperature	20 °C   68 °F
Average Power, Ambient Temperature	40 °C   104 °F
Average Power, Inner Conductor Temperature	100 °C   212 °F

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## Return Loss/VSWR

Frequency Band	VSWR	Return Loss (dB)
0-960 MHz	1.03	37.60
960-2200 MHz	1.06	30.30
2200-2700 MHz	1.08	28.50
2700-4000 MHz	1.09	27.00
4000-6000 MHz	1.09	27.00
6000-8000 MHz	1.16	22.50
8000-10000 MHz	1.27	18.50
10000-12000 MHz	1.29	18.00

## Regulatory Compliance/Certifications

Agency	Classification
RoHS 2002/95/EC	Compliant by Exemption
China RoHS SJ/T 11364-2006	Above Maximum Concentration Value (MCV)
ISO 9001:2008	Designed, manufactured and/or distributed under this quality management system



## \* Footnotes

Immersion Depth	Immersion at specified depth for 24 hours
Insertion Loss, typical	$0.05\sqrt{\text{freq}}$ (GHz) (not applicable for elliptical waveguide)