

# L2TNR-PL

Type N Male Right Angle Positive Lock for 3/8 in LDF2-50 cable



## Product Classification

Product Type	Wireless and radiating connector
Product Brand	HELIAX®

## General Specifications

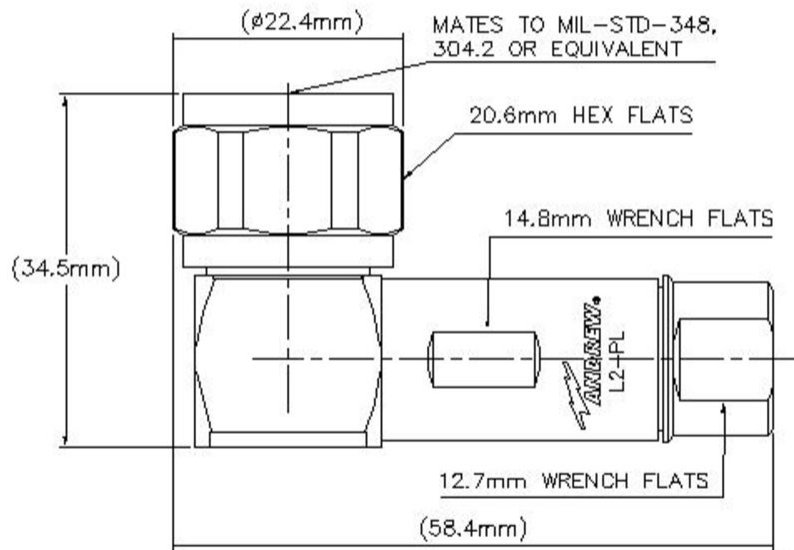
Body Style	Right angle
Cable Family	LDF2-50
Inner Contact Attachment Method	Captivated
Inner Contact Plating	Silver
Interface	N Male
Mounting Angle	Right angle
Outer Contact Attachment Method	Ring-flare
Outer Contact Plating	Trimetal
Pressurizable	No

## Dimensions

Height	0.81 in   20.574 mm
Width	0.88 in   22.352 mm
Length	2.3 in   58.42 mm
Right Angle Length	0.81 in   20.574 mm
Diameter	0.88 in   22.352 mm
Nominal Size	3/8 in

## Outline Drawing

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## Electrical Specifications

<b>3rd Order IMD at Frequency</b>	-107 dBm @ 910 MHz
<b>3rd Order IMD Test Method</b>	Two +43 dBm carriers
<b>Insertion Loss, typical</b>	0.05 dB
<b>Attenuation, Ambient Temperature</b>	20 °C   68 °F
<b>Average Power at Frequency</b>	0.7 kW @ 900 MHz
<b>Cable Impedance</b>	50 ohm
<b>Connector Impedance</b>	50 ohm
<b>dc Test Voltage</b>	2500 V
<b>Inner Contact Resistance, maximum</b>	1 mOhm
<b>Insulation Resistance, minimum</b>	5000 MOhm
<b>Operating Frequency Band</b>	0 – 10000 MHz

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Outer Contact Resistance, maximum	0.25 mOhm
Peak Power, maximum	10 kW
RF Operating Voltage, maximum (vrms)	707 V
Shielding Effectiveness	-110 dB

## VSWR/Return Loss

Frequency Band	VSWR	Return Loss (dB)
0–960 MHz	1.06	32
960–2200 MHz	1.07	30.7
2200–2700 MHz	1.07	30
2700–4000 MHz	1.12	25.3
4000–6000 MHz	1.17	22.6
6000–8000 MHz	1.19	21.5
8000–10000 MHz	1.19	21.5

## Mechanical Specifications

Attachment Durability	25 cycles
Connector Retention Tensile Force	151 lbf   671.681 N
Connector Retention Torque	23.9 in lb   2.7 N-m
Coupling Nut Proof Torque	15.05 in lb   1.7 N-m
Coupling Nut Retention Force	101.16 lbf   449.982 N
Coupling Nut Retention Force Method	MIL-C-39012C-3.25, 4.6.22
Insertion Force	6.29 lbf   27.979 N
Insertion Force Method	IEC 61169-1:15.2.4
Interface Durability	500 cycles
Interface Durability Method	IEC 61169-16:9.5
Mechanical Shock Test Method	IEC 60068-2-27

## 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)
Average Power, Ambient Temperature	40 °C   104 °F
Average Power, Inner Conductor Temperature	100 °C   212 °F
Corrosion Test Method	IEC 60068-2-11

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Immersion Depth	1 m
Immersion Test Mating	Mated
Immersion Test Method	IEC 60529:2001, IP68
Moisture Resistance Test Method	IEC 60068-2-3
Thermal Shock Test Method	IEC 60068-2-14
Vibration Test Method	IEC 60068-2-6

## Packaging and Weights

Weight, net	83.48 g   0.184 lb
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## Regulatory Compliance/Certifications

Agency	Classification
ISO 9001:2015	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√freq (GHz) (not applicable for elliptical waveguide)