

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

Product Classification

Product Type	Wireless and radiating connector
Product Brand	HELIAX®
Product Series	LDF2-50
General Specifications	
Body Style	Straight
Cable Family	LDF2-50
Inner Contact Attachment Method	Captivated
Inner Contact Plating	Silver
Interface	N Female
Mounting Angle	Straight
Outer Contact Attachment Method	Ring-flare
Outer Contact Plating	Trimetal
Pressurizable	No
Dimensions	
Height	16.26 mm 0.64 in
Width	16.26 mm 0.64 in
Length	49.28 mm 1.94 in
Diameter	16.26 mm 0.64 in

Outline Drawing

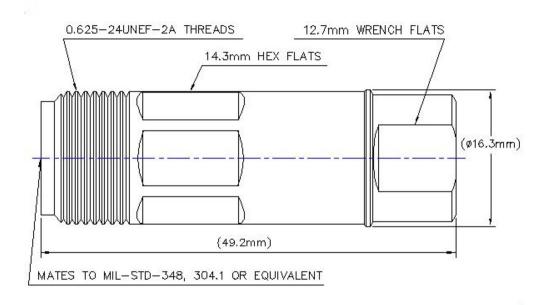
Nominal Size

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3/8 in





Electrical Specifications

3rd Order IMD at Frequency	-107 dBm @ 910 MHz
3rd Order IMD Test Method	Two +43 dBm carriers
Insertion Loss Coefficient, typical	0.05
Average Power at Frequency	0.7 kW @ 900 MHz
Cable Impedance	50 ohm
Connector Impedance	50 ohm
dc Test Voltage	2500 V
Inner Contact Resistance, maximum	1 m0hm
Insulation Resistance, minimum	5000 MOhm
Operating Frequency Band	0 – 12000 MHz
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	1.027	37.51

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960–2200 MHz	1.063	30.3
2200–2700 MHz	1.078	28.51
2700-4000 MHz	1.094	26.96
4000–6000 MHz	1.094	26.96
6000-8000 MHz	1.162	22.51
8000–10000 MHz	1.27	18.5
10000–12000 MHz	1.29	18

Mechanical Specifications

Attachment Durability	25 cycles
Connector Retention Tensile Force	671.68 N 151 lbf
Connector Retention Torque	2.7 N-m 23.897 in lb
Coupling Nut Proof Torque	1.7 N-m 15.046 in lb
Insertion Force	27.98 N 6.29 lbf
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)
Attenuation, Ambient Temperature	20 °C 68 °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
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

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Weight, net

43.34 g | 0.096 lb

Regulatory Compliance/Certifications

Agency	Classification
CHINA-ROHS	Below maximum concentration value
ISO 9001:2015	Designed, manufactured and/or distributed under this quality management system
REACH-SVHC	Compliant as per SVHC revision on www.commscope.com/ProductCompliance
ROHS	Compliant
UK-ROHS	Compliant
* Footnotes	

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

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