14PNF-RC



Type N Female RingFlare™ for 1/2 in LDF4-50A cable

OBSOLETE

This product was discontinued on: June 16, 2010

Replaced By:

L4TNF-PS Type N Female Positive Stop™ for 1/2 in LDF4-50A cable

L4TNF-PSA Type N Female Positive Stop™ for 1/2 in AL4RPV-50, LDF4-50A, HL4RPV-50 cable

Product Classification

Product Type Wireless and radiating connector

Product Brand HELIAX® | RingFlare™

General Specifications

Body StyleStraightCable FamilyLDF4-50AInner Contact Attachment MethodCaptivated

Inner Contact Plating Gold

Interface N Female

Mounting Angle Straight

Outer Contact Attachment Method Ring-flare

Outer Contact Plating Trimetal

Pressurizable No

Dimensions

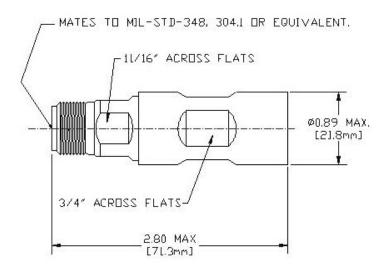
 Length
 71.12 mm | 2.8 in

 Diameter
 22.1 mm | 0.87 in

Nominal Size 1/2 in

Outline Drawing





Electrical Specifications

3rd Order IMD at Frequency -120 dBm @ 910 MHz
3rd Order IMD Test Method Two +43 dBm carriers

Insertion Loss Coefficient, typical 0.05

Average Power at Frequency 0.6 kW @ 900 MHz

Cable Impedance50 ohmConnector Impedance50 ohmdc Test Voltage2000 VInner Contact Resistance, maximum2 mOhmInsulation Resistance, minimum5000 MOhmOperating Frequency Band0 - 8800 MHz

Outer Contact Resistance, maximum0.3 mOhmPeak Power, maximum10 kWRF Operating Voltage, maximum (vrms)707 VShielding Effectiveness-110 dB

VSWR/Return Loss

Frequency Band VSWR Return Loss (dB)

45–1000 MHz 1.032 36.06

COMMSCOPE®

L4PNF-RC

1000-2500 MHz	1.058	31
2500-5000 MHz	1.094	26.96
5000-7000 MHz	1.135	23.98
7000-8000 MHz	1.196	20.99
8000-8800 MHz	1.33	17

Mechanical Specifications

Attachment Durability 25 cycles

Connector Retention Tensile Force 889.64 N | 200 lbf

Connector Retention Torque 5.42 N-m | 47.998 in lb

Insertion Force 66.72 N | 15 lbf

Insertion Force Method MIL-C-39012C-3.12, 4.6.9

Interface Durability 50 cycles

Interface Durability Method IEC 61169-16:9.5

Mechanical Shock Test Method MIL-STD-202, Method 213, Test Condition I

Environmental Specifications

Operating Temperature $-55 \,^{\circ}\text{C}$ to $+85 \,^{\circ}\text{C}$ (-67 $^{\circ}\text{F}$ to $+185 \,^{\circ}\text{F}$)Storage Temperature $-55 \,^{\circ}\text{C}$ to $+85 \,^{\circ}\text{C}$ (-67 $^{\circ}\text{F}$ to $+185 \,^{\circ}\text{F}$)

Attenuation, Ambient Temperature $20 \, ^{\circ}\text{C} \mid 68 \, ^{\circ}\text{F}$ Average Power, Ambient Temperature $40 \, ^{\circ}\text{C} \mid 104 \, ^{\circ}\text{F}$

Corrosion Test Method MIL-STD-1344A, Method 1001.1, Test Condition A

Immersion Depth1 mImmersion Test MatingMated

Immersion Test Method IEC 60529:2001, IP68

Moisture Resistance Test Method MIL-STD-202F, Method 106F

Thermal Shock Test Method MIL-STD-202F, Method 107G, Test Condition A-1, Low Temperature -55 °C

Vibration Test Method MIL-STD-202F, Method 204D, Test Condition B

Water Jetting Test Mating Mated

Water Jetting Test Method IEC 60529:2001, IP66

Packaging and Weights

Weight, net 92 g | 0.203 lb



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* Footnotes

Insertion Loss Coefficient, typical 0.05√ freq (GHz) (not applicable for elliptical waveguide)

Immersion Depth Immersion at specified depth for 24 hours

