



L4PNF-RC

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

## OBSOLETE

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

## General Specifications

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

## Electrical Specifications

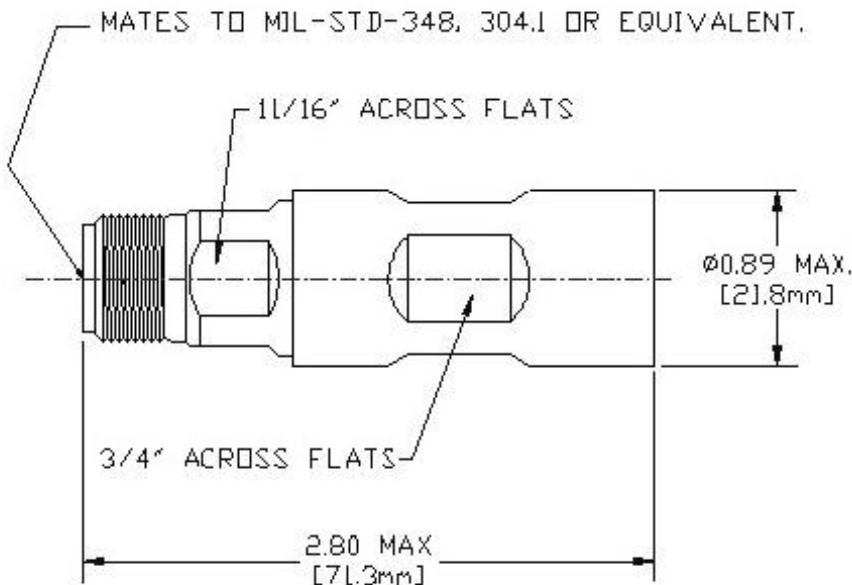
Connector Impedance	50 ohm
Operating Frequency Band	0 – 8800 MHz
Cable Impedance	50 ohm
3rd Order IMD, typical	-120 dBm @ 910 MHz
3rd Order IMD Test Method	Two +43 dBm carriers
RF Operating Voltage, maximum (vrms)	707.00 V
dc Test Voltage	2000 V
Outer Contact Resistance, maximum	0.30 mOhm
Inner Contact Resistance, maximum	2.00 mOhm
Insulation Resistance, minimum	5000 MOhm
Average Power	0.6 kW @ 900 MHz
Peak Power, maximum	10.00 kW
Insertion Loss, typical	0.05 dB
Shielding Effectiveness	-110 dB

# Product Specifications

COMMSCOPE®

I4PNF-RC

## Outline Drawing



## Mechanical Specifications

Outer Contact Attachment Method	Ring-flare
Inner Contact Attachment Method	Captivated
Outer Contact Plating	Trimetal
Inner Contact Plating	Gold
Attachment Durability	25 cycles
Interface Durability	50 cycles
Interface Durability Method	IEC 61169-16:9.5
Connector Retention Tensile Force	890 N   200 lbf
Connector Retention Torque	5.42 N·m   48.00 in lb
Insertion Force	66.72 N   15.00 lbf
Insertion Force Method	MIL-C-39012C-3.12, 4.6.9
Pressurizable	No

## Dimensions

Nominal Size	1/2 in
Diameter	22.00 mm   0.87 in
Length	70.99 mm   2.80 in
Weight	92.00 g   0.20 lb

## Environmental Specifications

Operating Temperature	-55 °C to +85 °C (-67 °F to +185 °F)
Storage Temperature	-55 °C to +85 °C (-67 °F to +185 °F)

# Product Specifications

COMMSCOPE®

I4PNF-RC

Immersion Depth	1 m
Immersion Test Mating	Mated
Immersion Test Method	IEC 60529:2001, IP68
Water Jetting Test Mating	Mated
Water Jetting Test Method	IEC 60529:2001, IP66
Moisture Resistance Test Method	MIL-STD-202F, Method 106F
Mechanical Shock Test Method	MIL-STD-202, Method 213, Test Condition I
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
Corrosion Test Method	MIL-STD-1344A, Method 1001.1, Test Condition A

## Standard Conditions

Attenuation, Ambient Temperature	20 °C   68 °F
Average Power, Ambient Temperature	40 °C   104 °F

## Return Loss/VSWR

Frequency Band	VSWR	Return Loss (dB)
45-1000 MHz	1.03	36.00
1000-2500 MHz	1.06	31.00
2500-5000 MHz	1.09	27.00
5000-7000 MHz	1.13	24.00
7000-8000 MHz	1.2	21.00
8000-8800 MHz	1.33	17.00

## Regulatory Compliance/Certifications

Agency  
RoHS 2011/65/EU  
China RoHS SJ/T 11364-2006

Classification  
Compliant by Exemption  
Above Maximum Concentration Value (MCV)



## \* Footnotes

Immersion Depth	Immersion at specified depth for 24 hours
Insertion Loss, typical	0.05v <sup>-</sup> freq (GHz) (not applicable for elliptical waveguide)