

#### 7-16 DIN Male OnePiece™ for 7/8 in LDF5-50A cable

#### **OBSOLETE**

This product was discontinued on: December 31, 2010

Replaced By:

L5TDM-PS 7-16 DIN Male Positive Stop™ for 7/8 in LDF5-50A cable

### Product Classification

**Product Type** Wireless and radiating connector

Product Brand HELIAX® | OnePiece™

General Specifications

Body Style Straight

Cable Family LDF5-50A

Inner Contact Attachment Method Captivated

Inner Contact Plating Silver

**Interface** 7-16 DIN Male

Mounting AngleStraightOuter Contact Attachment MethodBall clampOuter Contact PlatingTrimetalPressurizableNo

**Dimensions** 

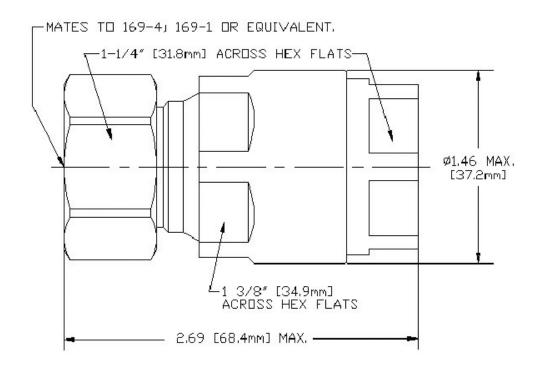
 Length
 69.09 mm | 2.72 in

 Diameter
 37.08 mm | 1.46 in

Nominal Size 7/8 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 2.3 kW @ 900 MHz

Cable Impedance50 ohmConnector Impedance50 ohmdc Test Voltage4000 VInner Contact Resistance, maximum0.8 mOhm

Insulation Resistance, minimum 5000 MOhm

Operating Frequency Band 0 - 5000 MHz

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Peak Power, maximum 40 kW

RF Operating Voltage, maximum (vrms) 1415 V

**Shielding Effectiveness** -130 dB

VSWR/Return Loss

**Outer Contact Resistance, maximum** 



1.5 m0hm

Frequency Band	VSWR	Return Loss (dB)
40-1000 MHz	1.029	36.9
1010-2200 MHz	1.036	35.05
2210-3000 MHz	1.046	32.96
3010-4000 MHz	1.065	30.04
4010-5000 MHz	1.173	21.98

## Mechanical Specifications

Attachment Durability 25 cycles

**Connector Retention Tensile Force** 889.64 N | 200 lbf

**Connector Retention Torque** 8.14 N-m | 72.001 in lb

**Coupling Nut Proof Torque** 49.94 N-m | 441.997 in lb

**Coupling Nut Retention Force** 1,000.85 N | 225 lbf

**Coupling Nut Retention Force Method** MIL-C-39012C-3.23, 4.6.22

**Insertion Force** 200.17 N | 45 lbf

**Insertion Force Method** IEC 61169-1:15.2.4

Interface Durability 500 cycles

**Interface Durability Method** IEC 61169-4:9.5

Mechanical Shock Test Method MIL-STD-202F, Method 213B, Test Condition C

### **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 Depth** 1 m

Immersion Test Mating Unmated

**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 IEC 60068-2-6

Water Jetting Test Mating Unmated

**COMMSCOPE®** 

Water Jetting Test Method IEC 60529:2001, IP66

Packaging and Weights

**Weight, net** 204 g | 0.45 lb

\* Footnotes

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

**Immersion Depth** Immersion at specified depth for 24 hours

