#### 7-16 DIN Male EZfit® for 1-5/8 in FXL-1873 and AVA7-50 cable



### **Product Classification**

Brand EZfit®

**Product Type**Wireless and radiating connector

### General Specifications

**Interface** 7-16 DIN Male

Body StyleStraightMounting AngleStraight

Ordering Note CommScope® non-standard product

#### **Electrical Specifications**

Connector Impedance 50 ohm

Operating Frequency Band 0 – 2700 MHz Average Power at Frequency 3.0 kW @ 900 MHz

Cable Impedance 50 ohm

3rd Order IMD, typical -116 dBm @ 1800 MHz
3rd Order IMD Test Method Two +43 dBm carriers

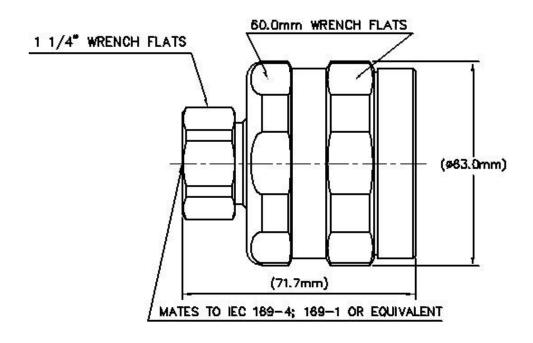
RF Operating Voltage, maximum (vrms) 1415.00 V
dc Test Voltage 4000 V

Outer Contact Resistance, maximum 1.50 mOhm
Inner Contact Resistance, minimum 5000 MOhm
Peak Power, maximum 40.00 kW
Insertion Loss, typical 0.05 dB
Shielding Effectiveness -130 dB

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### Outline Drawing



#### Mechanical Specifications

**Outer Contact Attachment Method** Clamp **Inner Contact Attachment Method** Captivated **Outer Contact Plating** Trimetal **Inner Contact Plating** Silver **Attachment Durability** 25 cycles Interface Durability 500 cycles **Interface Durability Method** IEC 61169-4:9.5 **Connector Retention Tensile Force** 2224 N | 500 lbf

Connector Retention Torque13.56 N-m120.00 in lbInsertion Force200.17 N45.00 lbfInsertion Force MethodIEC 61169-1:15.2.4

**Pressurizable** No

Coupling Nut Proof Torque24.86 N-m| 220.00 in lbCoupling Nut Retention Force1000.85 N| 225.00 lbfCoupling Nut Retention Force MethodMIL-C-39012C-3.25, 4.6.22

#### **Dimensions**

Nominal Size 1-5/8 in

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 Diameter
 63.10 mm | 2.48 in

 Length
 71.72 mm | 2.82 in

 Weight
 563.60 g | 1.24 lb

#### **Environmental Specifications**

Operating Temperature  $-40 \,^{\circ}\text{C}$  to  $+85 \,^{\circ}\text{C}$  (-40 °F to  $+185 \,^{\circ}\text{F}$ )

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

Immersion Depth1 mImmersion Test MatingMated

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-202F, Method 213B, Test Condition C

Vibration Test Method IEC 60068-2-6

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)
45–400 MHz	1.02	41.70
401–805 MHz	1.03	37.00
806–960 MHz	1.04	34.60
961–1709 MHz	1.04	33.50
1710-2170 MHz	1.05	33.10
2170–2399 MHz	1.05	33.10
2400-2700 MHz	1.05	31.90

## Regulatory Compliance/Certifications

Agency Classification

RoHS 2011/65/EU Compliant by Exemption

ISO 9001:2015 Designed, manufactured and/or distributed under this quality management system

China RoHS SJ/T 11364-2014 Above Maximum Concentration Value (MCV)









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#### \* Footnotes

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

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

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