

# 7-16 DIN Male EZfit® for 7/8 in FXL-780, AVA5-50, and AVA5-50FX cable

#### **Product Classification**

**Brand** EZfit®

**Product Type** Wireless and radiating connector

#### General Specifications

**Interface** 7-16 DIN Male

**Body Style** Straight

Harmonized System (HS) Code 854420 (Coaxial cable and other coaxial electric conductors)

Mounting Angle Straight

Ordering Note CommScope® non-standard product

## **Electrical Specifications**

Connector Impedance 50 ohm

Operating Frequency Band 0 – 5000 MHz
Cable Impedance 50 ohm

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

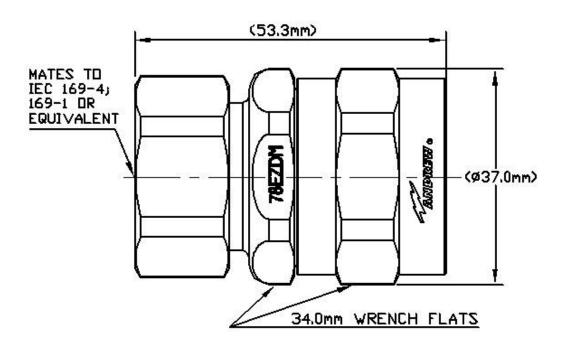
RF Operating Voltage, maximum (vrms)  $1415.00 \lor$  dc Test Voltage  $4000 \lor$ 

Outer Contact Resistance, maximum1.50 mOhmInner Contact Resistance, maximum0.40 mOhmInsulation Resistance, minimum5000 MOhmPeak Power, maximum40.00 kWInsertion Loss, typical0.05 dB





# 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** 1334 N | 300 lbf **Connector Retention Torque** 8.13 N-m | 72.00 in lb **Insertion Force** 200.17 N | 45.00 lbf **Insertion Force Method** IEC 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 7/8 in

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Diameter 37.00 mm | 1.46 in Length 53.30 mm | 2.10 in Weight 169.74 g | 0.37 lb

## **Environmental Specifications**

**Operating Temperature** -40 °C to +85 °C (-40 °F to +185 °F) -55 °C to +85 °C (-67 °F to +185 °F) **Storage Temperature** 

**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-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)
50-1000 MHz	1.02	40.00
1000-1900 MHz	1.03	38.00
1900-2200 MHz	1.03	36.00
2200–2700 MHz	1.05	32.00
2700-3600 MHz	1.07	30.00
3600-5000 MHz	1.09	27.00

## 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)







<sup>\*</sup> Footnotes

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

**Insertion Loss, typical** 0.05v<sup>-</sup>freq (GHz) (not applicable for elliptical waveguide)

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