# 78EZNM



Type N Male EZfit® for 7/8 in FXL-780, AVA5-50, and AVA5-50FX cable

#### **Product Classification**

**Product Type** Wireless and radiating connector

Product Brand EZfit®

Product Series AVA5-50 | AVA5RK-50

Ordering Note CommScope® non-standard product

General Specifications

Body Style Straight

Cable Family AVA5-50 | AVA5-50FX | FXL-780

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

Inner Contact Attachment Method Captivated

 Inner Contact Plating
 Silver

 Interface
 N Male

 Mounting Angle
 Straight

 Outer Contact Attachment Method
 Clamp

 Outer Contact Plating
 Trimetal

 Pressurizable
 No

**Dimensions** 

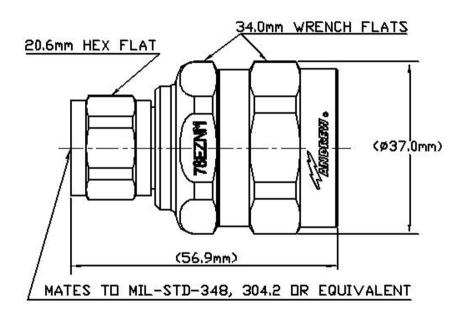
 Length
 57.91 mm | 2.28 in

 Diameter
 37.08 mm | 1.46 in

Nominal Size 7/8 in

Outline Drawing





## **Electrical Specifications**

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

0.05 dB Insertion Loss, typical **Cable Impedance** 50 ohm 50 ohm **Connector Impedance** 2000 V dc Test Voltage Inner Contact Resistance, maximum 2 mOhm Insulation Resistance, minimum 5000 MOhm **Operating Frequency Band** 0 - 5000 MHz **Outer Contact Resistance, maximum** 0.3 mOhm 10 kW Peak Power, maximum

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#### **RF Operating Voltage, maximum (vrms)** 707 V

#### VSWR/Return Loss

Frequency Band	VSWR	Return Loss (dB)
50–1000 MHz	1.03	40
1000–1900 MHz	1.03	38
1900–2200 MHz	1.04	35
2200–2700 MHz	1.06	32
2700–3600 MHz	1.07	30
3600–5000 MHz	1.11	26

### Mechanical Specifications

Attachment Durability 25 cycles

Connector Retention Tensile Force1,334.47 N | 300 lbfConnector Retention Torque8.14 N-m | 72.001 in lbCoupling Nut Proof Torque4.52 N-m | 39.997 in lbCoupling Nut Retention Force444.82 N | 100 lbf

Coupling Nut Retention Force Method MIL-C-39012C-3.25, 4.6.22

**Insertion Force** 66.72 N | 15 lbf

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

**Interface Durability** 500 cycles

**Interface Durability Method** IEC 61169-16:9.5

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

## **Environmental Specifications**

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

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Vibration Test Method IEC 60068-2-6

Water Jetting Test Mating Mated

Water Jetting Test Method IEC 60529:2001, IP66

Packaging and Weights

**Weight, net** 152.89 g | 0.337 lb

# Regulatory Compliance/Certifications

Agency Classification

CHINA-ROHS Below maximum concentration value

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

REACH-SVHC Compliant as per SVHC revision on www.commscope.com/ProductCompliance

ROHS Compliant



### \* Footnotes

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

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

