

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

Product Classification

Brand EZfit®

Product TypeWireless and radiating connector

General Specifications

InterfaceN FemaleBody StyleStraightMounting AngleStraight

Ordering Note CommScope® non-standard product

Electrical Specifications

Connector Impedance 50 ohm

Operating Frequency Band 0 – 5000 MHz

Cable Impedance 50 ohm

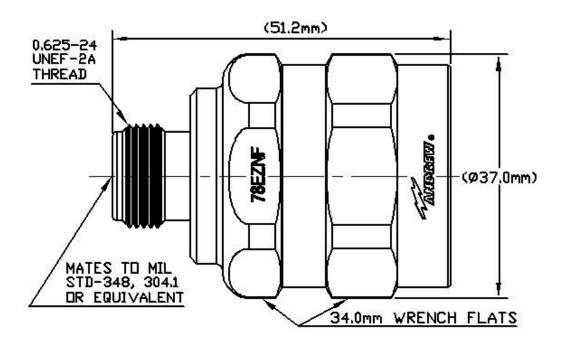
3rd Order IMD, typical -116 dBm @ 1800 MHz
3rd Order IMD Test Method Two +43 dBm carriers

RF Operating Voltage, maximum (vrms) 707.00 V
dc Test Voltage 2000 V
Outer Contact Resistance, maximum 2.00 mOhm
Inner Contact Resistance, minimum 5000 MOhm
Peak Power, maximum 10.00 kW

Insertion Loss, typical 0.05 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 Method IEC 61169-16:9.5

Connector Retention Tensile Force1334 N | 300 lbfConnector Retention Torque8.13 N-m | 72.00 in lbInsertion Force66.72 N | 15.00 lbfInsertion Force MethodMIL-C-39012C-3.12, 4.6.9

Pressurizable No.

Dimensions

Nominal Size 7/8 in

 Diameter
 37.00 mm | 1.46 in

 Length
 52.16 mm | 2.05 in

 Weight
 135.54 g | 0.30 lb

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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

Thermal Shock Test Method MIL-STD-202F, Method 107G, Test Condition A-1, Low Temperature -55 °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	1.04	34.00
2200–2700 MHz	1.06	31.00
2700–3600 MHz	1.07	30.00
3600-5000 MHz	1.11	26.00

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)







* Footnotes

Immersion Depth Immersion at specified depth for 24 hours

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Insertion Loss, typical 0.05v⁻freq (GHz) (not applicable for elliptical waveguide)

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