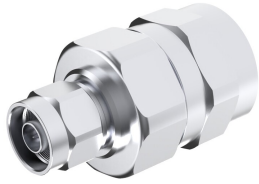


# 78EZNM-F

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Type N Male EZfit® for 7/8 in AVA5-50, AVA5-50FX and AL5-50 cable

## Product Classification

<b>Portfolio</b>	CommScope®
<b>Product Type</b>	Wireless and radiating connector
<b>Product Brand</b>	EZfit®
<b>Product Series</b>	AL5-50   AVA5-50   AVA5-50FX   AVA5RK-50
<b>Ordering Note</b>	CommScope® non-standard product
<b>Warranty</b>	Five years

## General Specifications

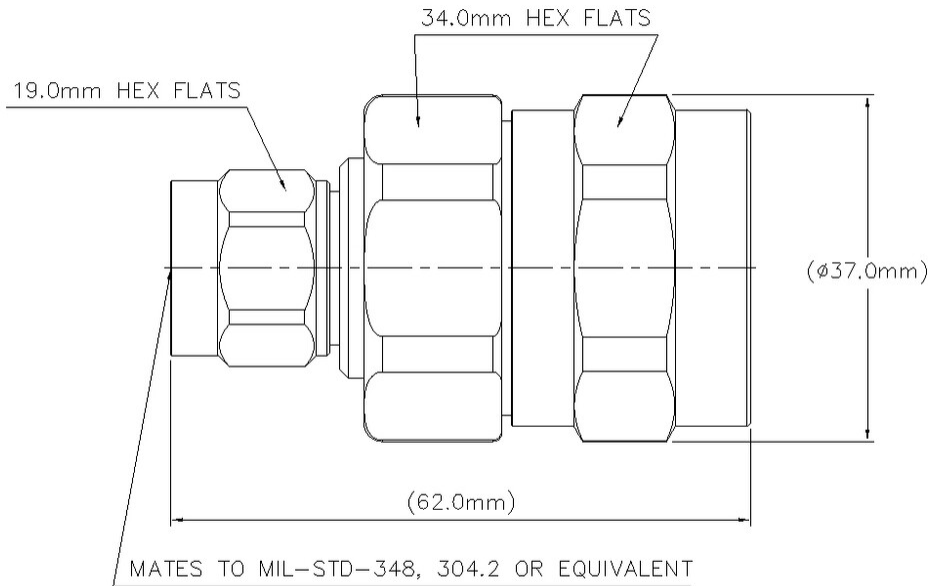
<b>Body Style</b>	Straight
<b>Cable Family</b>	AL5-50   AVA5-50   AVA5-50FX
<b>Harmonized System (HS) Code</b>	85366910 (Coaxial cable and other coaxial electric conductors)
<b>Inner Contact Attachment Method</b>	Captivated
<b>Inner Contact Plating</b>	Silver
<b>Interface</b>	N Male
<b>Mounting Angle</b>	Straight
<b>Outer Contact Attachment Method</b>	Clamp
<b>Outer Contact Plating</b>	Trimetal
<b>Pressurizable</b>	No

## Dimensions

<b>Length</b>	61.95 mm   2.439 in
<b>Diameter</b>	37 mm   1.457 in
<b>Nominal Size</b>	7/8 in

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## Outline Drawing



## Electrical Specifications

<b>3rd Order IMD at Frequency</b>	-116 dBm @ 900 MHz
<b>3rd Order IMD Test Method</b>	Two +43 dBm carriers
<b>Insertion Loss Coefficient, typical</b>	0.05
<b>Average Power at Frequency</b>	0.6 kW @ 900 MHz
<b>Cable Impedance</b>	50 ohm
<b>Connector Impedance</b>	50 ohm
<b>dc Test Voltage</b>	2500 V
<b>Impedance</b>	50 ohm
<b>Inner Contact Resistance, maximum</b>	1 mOhm
<b>Insulation Resistance, minimum</b>	5000 MOhm
<b>Operating Frequency Band</b>	0 – 5000 MHz
<b>Outer Contact Resistance, maximum</b>	0.25 mOhm
<b>RF Operating Voltage, maximum (vrms)</b>	707 V

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## VSWR/Return Loss

Frequency Band	VSWR	Return Loss (dB)	Gated VSWR	Gated Return Loss (dB)
0–1000 MHz	1.065	30	1.032	36
1000–2000 MHz	1.083	28	1.041	34
2000–3000 MHz	1.094	27	1.052	32
3000–3800 MHz	1.106	26	1.058	31
3800–5000 MHz	1.222	20	1.106	26

## Mechanical Specifications

<b>Attachment Durability</b>	25 cycles
<b>Connector Retention Tensile Force</b>	1200 N   269.771 lbf
<b>Connector Retention Torque</b>	7.5 N-m   66.381 in lb
<b>Coupling Nut Retention Force</b>	444.82 N   100 lbf
<b>Coupling Nut Retention Force Method</b>	MIL-C-39012C-3.25, 4.6.22
<b>Insertion Force</b>	66.72 N   15 lbf
<b>Insertion Force Method</b>	MIL-C-39012C-3.12, 4.6.9
<b>Interface Durability</b>	500 cycles
<b>Interface Durability Method</b>	IEC 61169-16:9.5
<b>Mechanical Shock Test Method</b>	MIL-STD-202F, Method 213B, Test Condition C

## Environmental Specifications

<b>Operating Temperature</b>	-40 °C to +85 °C (-40 °F to +185 °F)
<b>Storage Temperature</b>	-55 °C to +85 °C (-67 °F to +185 °F)
<b>Attenuation, Ambient Temperature</b>	20 °C   68 °F
<b>Average Power, Ambient Temperature</b>	40 °C   104 °F
<b>Corrosion Test Method</b>	MIL-STD-1344A, Method 1001.1, Test Condition A
<b>Immersion Depth</b>	1 m
<b>Immersion Test Mating</b>	Mated
<b>Immersion Test Method</b>	IEC 60529:2001, IP68
<b>Moisture Resistance Test Method</b>	MIL-STD-202F, Method 106F
<b>Vibration Test Method</b>	IEC 60068-2-6

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## Packaging and Weights

<b>Height, packed</b>	248.92 mm   9.8 in
<b>Width, packed</b>	266.7 mm   10.5 in
<b>Length, packed</b>	266.7 mm   10.5 in
<b>Packaging quantity</b>	50
<b>Weight, net</b>	169.6 g   0.374 lb

## \* Footnotes

<b>Warranty</b>	For more information, please consult our Product Warranty guidelines
<b>Insertion Loss Coefficient, typical</b>	0.05√freq (GHz) (not applicable for elliptical waveguide)
<b>Immersion Depth</b>	Immersion at specified depth for 24 hours