

Type N Male EZfit® for 1-5/8 in FXL-1873 and AVA7-50 cable



## Product Classification

<b>Brand</b>	EZfit®
<b>Product Type</b>	Wireless and radiating connector

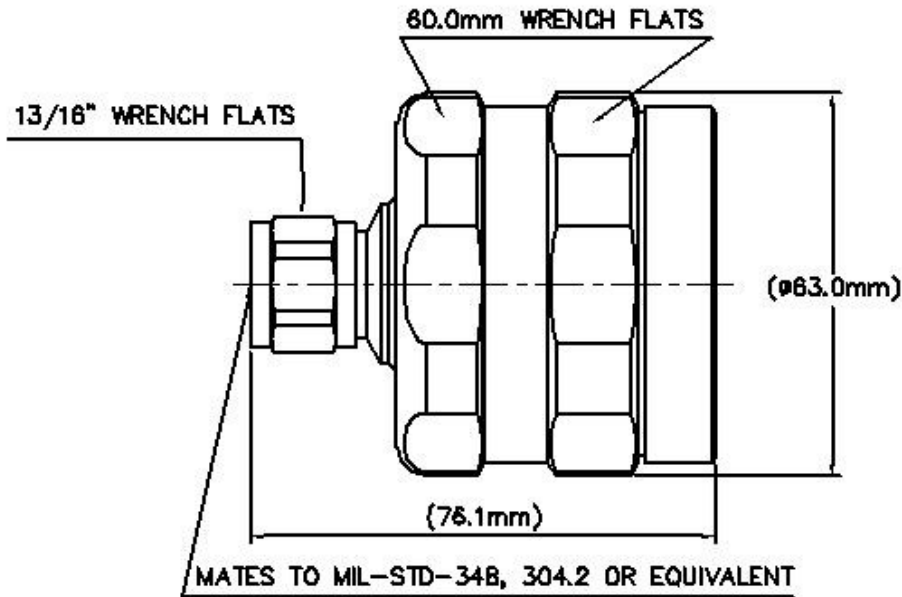
## General Specifications

<b>Interface</b>	N Male
<b>Body Style</b>	Straight
<b>Mounting Angle</b>	Straight
<b>Ordering Note</b>	CommScope® non-standard product

## Electrical Specifications

<b>Connector Impedance</b>	50 ohm
<b>Operating Frequency Band</b>	0 – 2700 MHz
<b>Average Power at Frequency</b>	0.6 kW @ 900 MHz
<b>Cable Impedance</b>	50 ohm
<b>3rd Order IMD, typical</b>	-116 dBm @ 1800 MHz
<b>3rd Order IMD Test Method</b>	Two +43 dBm carriers
<b>RF Operating Voltage, maximum (vrms)</b>	707.00 V
<b>dc Test Voltage</b>	2000 V
<b>Outer Contact Resistance, maximum</b>	0.30 mOhm
<b>Inner Contact Resistance, maximum</b>	2.00 mOhm
<b>Insulation Resistance, minimum</b>	5000 MOhm
<b>Peak Power, maximum</b>	10.00 kW
<b>Insertion Loss, typical</b>	0.05 dB
<b>Shielding Effectiveness</b>	-130 dB

## Outline Drawing



## Mechanical Specifications

<b>Outer Contact Attachment Method</b>	Clamp
<b>Inner Contact Attachment Method</b>	Captivated
<b>Outer Contact Plating</b>	Trimetal
<b>Inner Contact Plating</b>	Silver
<b>Attachment Durability</b>	25 cycles
<b>Interface Durability</b>	500 cycles
<b>Interface Durability Method</b>	IEC 61169-16:9.5
<b>Connector Retention Tensile Force</b>	2224 N   500 lbf
<b>Connector Retention Torque</b>	13.56 N-m   120.00 in lb
<b>Insertion Force</b>	66.72 N   15.00 lbf
<b>Insertion Force Method</b>	MIL-C-39012C-3.12, 4.6.9
<b>Pressurizable</b>	No
<b>Coupling Nut Proof Torque</b>	4.52 N-m   40.00 in lb
<b>Coupling Nut Retention Force</b>	444.82 N   100.00 lbf
<b>Coupling Nut Retention Force Method</b>	MIL-C-39012C-3.25, 4.6.22

## Dimensions

<b>Nominal Size</b>	1-5/8 in
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# 158EZNM

<b>Diameter</b>	63.10 mm   2.48 in
<b>Length</b>	76.12 mm   3.00 in
<b>Weight</b>	550.50 g   1.21 lb

## 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>Immersion Depth</b>	1 m
<b>Immersion Test Mating</b>	Mated
<b>Immersion Test Method</b>	IEC 60529:2001, IP68
<b>Water Jetting Test Mating</b>	Mated
<b>Water Jetting Test Method</b>	IEC 60529:2001, IP66
<b>Moisture Resistance Test Method</b>	MIL-STD-202F, Method 106F
<b>Mechanical Shock Test Method</b>	MIL-STD-202F, Method 213B, Test Condition C
<b>Vibration Test Method</b>	IEC 60068-2-6
<b>Corrosion Test Method</b>	MIL-STD-1344A, Method 1001.1, Test Condition A

## Standard Conditions

<b>Attenuation, Ambient Temperature</b>	20 °C   68 °F
<b>Average Power, Ambient Temperature</b>	40 °C   104 °F

## Return Loss/VSWR

Frequency Band	VSWR	Return Loss (dB)
45–400 MHz	1.01	43.10
401–805 MHz	1.03	37.20
806–960 MHz	1.04	35.00
961–1709 MHz	1.06	30.10
1710–2170 MHz	1.05	32.60
2170–2399 MHz	1.06	30.60
2400–2700 MHz	1.06	30.10

## 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

<b>Immersion Depth</b>	Immersion at specified depth for 24 hours
<b>Insertion Loss, typical</b>	$0.05\sqrt{f}$ (GHz) (not applicable for elliptical waveguide)