78EZNM



Type N Male EZfit $\ensuremath{\mathbb{R}}$ for 7/8 in FXL-780, AVA5-50, and AVA5-50FX cable

Product Classification

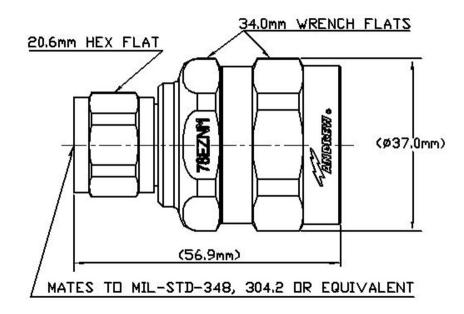
Product Type	Wireless and radiating connector
Product Brand	EZfit®
Product Series	AVA5-50 AVA5-50FX AVA5RK-50
Ordering Note	CommScope® non-standard product
General Specifications	
Body Style	Straight
Cable Family	AVA5-50 AVA5-50FX FXL-780
Harmonized System (HS) Code	854420 (Coaxial cable and other coaxial 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

Page 1 of 4

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Electrical Specifications

3rd Order IMD Test MethodTwo +43 dBm carriersInsertion Loss, typical0.05 dBCable Impedance50 ohmConnector Impedance50 ohmdc Test Voltage2000 VInner Contact Resistance, maximum2 mOhmInsulation Resistance, minimum5000 MOhmOperating Frequency Band0 - 5000 MHzOuter Contact Resistance, maximum0.3 mOhmFeak Power, maximum10 kWKF Operating Voltage, maximum (vrms)707 V	3rd Order IMD at Frequency	-116 dBm @ 1800 MHz
Cable Impedance50 ohmConnector Impedance50 ohmdc Test Voltage2000 VInner Contact Resistance, maximum2 mOhmInsulation Resistance, minimum5000 MOhmOperating Frequency Band0 - 5000 MHzOuter Contact Resistance, maximum0.3 mOhmPeak Power, maximum10 kW	3rd Order IMD Test Method	Two +43 dBm carriers
Connector Impedance50 ohmdc Test Voltage2000 VInner Contact Resistance, maximum2 mOhmInsulation Resistance, minimum5000 MOhmOperating Frequency Band0 - 5000 MHzOuter Contact Resistance, maximum0.3 mOhmPeak Power, maximum10 kW	Insertion Loss, typical	0.05 dB
dc Test Voltage2000 VInner Contact Resistance, maximum2 mOhmInsulation Resistance, minimum5000 MOhmOperating Frequency Band0 - 5000 MHzOuter Contact Resistance, maximum0.3 mOhmPeak Power, maximum10 kW	Cable Impedance	50 ohm
Inner Contact Resistance, maximum2 mOhmInsulation Resistance, minimum5000 MOhmOperating Frequency Band0 - 5000 MHzOuter Contact Resistance, maximum0.3 mOhmPeak Power, maximum10 kW	Connector Impedance	50 ohm
Insulation Resistance, minimum5000 MOhmOperating Frequency Band0 - 5000 MHzOuter Contact Resistance, maximum0.3 mOhmPeak Power, maximum10 kW	dc Test Voltage	2000 V
Operating Frequency Band0 - 5000 MHzOuter Contact Resistance, maximum0.3 mOhmPeak Power, maximum10 kW	Inner Contact Resistance, maximum	2 mOhm
Outer Contact Resistance, maximum0.3 mOhmPeak Power, maximum10 kW	Insulation Resistance, minimum	5000 MOhm
Peak Power, maximum 10 kW	Operating Frequency Band	0 – 5000 MHz
	Outer Contact Resistance, maximum	0.3 m0hm
RF Operating Voltage, maximum (vrms) 707 V	Peak Power, maximum	10 kW
	RF Operating Voltage, maximum (vrms)	707 V

VSWR/Return Loss

Frequency Band	VSWR	Return Loss (dB)
50-1000 MHz	1.02	40.09
1000–1900 MHz	1.025	38.17
1900–2200 MHz	1.036	35.05

Page 2 of 4

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2200–2700 MHz	1.052	31.92
2700-3600 MHz	1.065	30.04
3600–5000 MHz	1.106	25.96

Mechanical Specifications

Attachment Durability	25 cycles
Connector Retention Tensile Force	1,334.47 N 300 lbf
Connector Retention Torque	8.14 N-m 72.001 in lb
Coupling Nut Proof Torque	4.52 N-m 39.997 in lb
Coupling Nut Retention Force	444.82 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 °C to +85 °C (-40 °F to +185 °F)
Storage Temperature	-55 °C to +85 °C (-67 °F to +185 °F)
Attenuation, Ambient Temperature	20 °C 68 °F
Average Power, Ambient Temperature	40 °C 104 °F
Corrosion Test Method	MIL-STD-1344A, Method 1001.1, Test Condition A
Immersion Depth	1 m
Immersion Test Mating	Mated
Immersion Test Method	IEC 60529:2001, IP68
Moisture Resistance Test Method	MIL-STD-202F, Method 106F
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

Page 3 of 4

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Regulatory Compliance/Certifications

Agency

Classification

CHINA-ROHS

Below maximum concentration value

ISO 9001:2015

ROHS



* Footnotes

Insertion Loss, typical

Immersion Depth

Designed, manufactured and/or distributed under this quality management system Compliant

0.05v⁻freq (GHz) (not applicable for elliptical waveguide)

Immersion at specified depth for 24 hours

Page 4 of 4

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