78EZNF

Type N Female 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
Inner Contact Attachment Method	Captivated
Inner Contact Plating	Silver
Interface	N Female
Mounting Angle	Straight
Outer Contact Attachment Method	Clamp
Outer Contact Plating	Trimetal
Pressurizable	No

Dimensions

Length	52.07 mm | 2.05 in
Diameter	37.08 mm | 1.46 in
Nominal Size	7/8 in

Outline Drawing

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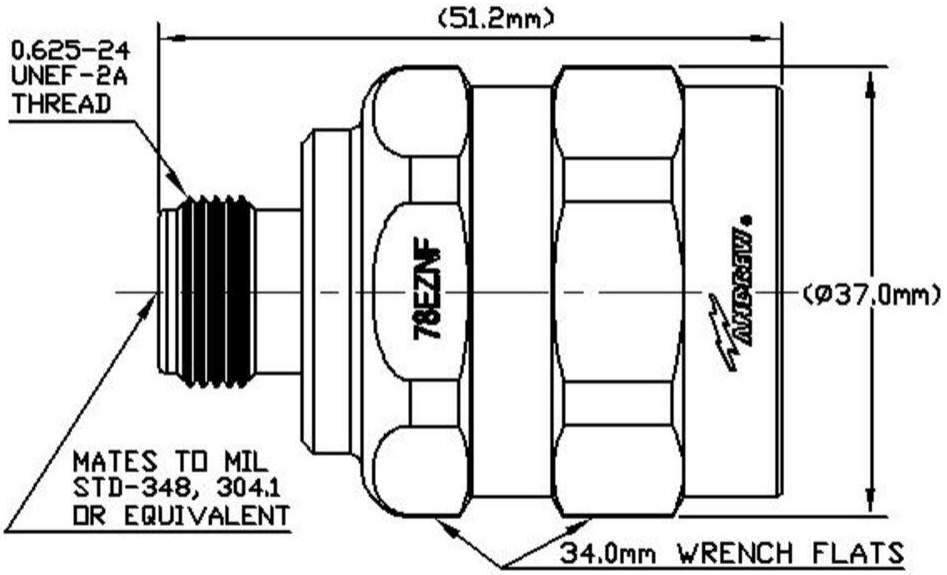

Electrical Specifications

3rd Order IMD at Frequency	-116 dBm @ 1800 MHz
3rd Order IMD Test Method	Two +43 dBm carriers
Insertion Loss, typical	0.05 dB
Cable Impedance	50 ohm
Connector Impedance	50 ohm
dc Test Voltage	2000 V
Inner Contact Resistance, maximum	2 mOhm
Insulation Resistance, minimum	5000 MOhm
Operating Frequency Band	0 – 5000 MHz
Outer Contact Resistance, maximum	0.3 mOhm
Peak Power, maximum	10 kW

RF Operating Voltage, maximum (vrms)	707 V

VSWR/Return Loss

Frequency Band	VSWR	Return Loss (dB)
50–1000 MHz	1.03	40
1000–1900 MHz	1.03	38
1900–2200 MHz	1.05	34
2200–2700 MHz	1.06	31
2700–3600 MHz	1.07	30
3600–5000 MHz	1.11	26

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
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
Thermal Shock Test Method	MIL-STD-202F, Method 107G, Test Condition A-1, Low Temperature -55 °C
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	135.54 g | 0.299 lb

Regulatory Compliance/Certifications

Agency	Classification
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	$0.05\sqrt{\text{freq (GHz)}}$ (not applicable for elliptical waveguide)