78EZNM

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

Product Classification

Brand	EZfit®
Product Type	Wireless and radiating connector

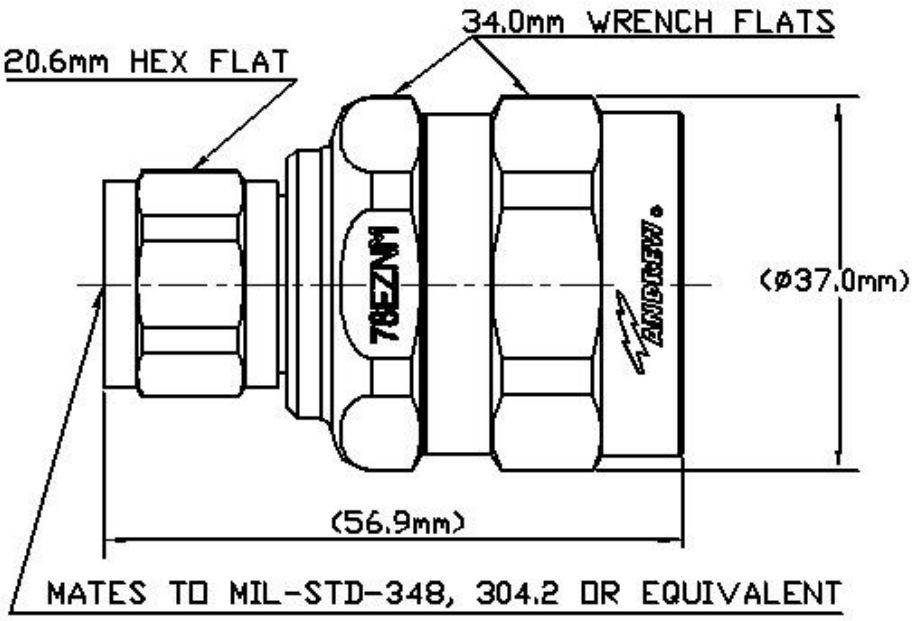
General Specifications

Interface	N Male
Body Style	Straight
Harmonized System (HS) Code	854420 (Coaxial cable and other coaxial electric conductors)
Mounting Angle	Straight
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	0.30 mOhm
Inner Contact Resistance, maximum	2.00 mOhm
Insulation 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	500 cycles
Interface Durability Method	IEC 61169-16:9.5
Connector Retention Tensile Force	1334 N | 300 lbf
Connector Retention Torque	8.13 N-m | 72.00 in lb
Insertion Force	66.72 N | 15.00 lbf
Insertion Force Method	MIL-C-39012C-3.12, 4.6.9
Pressurizable	No
Coupling Nut Proof Torque	4.52 N-m | 40.00 in lb
Coupling Nut Retention Force	444.82 N | 100.00 lbf
Coupling Nut Retention Force Method	MIL-C-39012C-3.25, 4.6.22

Dimensions

Nominal Size	7/8 in

Diameter	37.00 mm | 1.46 in
Length	57.96 mm | 2.28 in
Weight	152.89 g | 0.34 lb

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)
Immersion Depth	1 m
Immersion Test Mating	Mated
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
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	35.00
2200–2700 MHz	1.05	32.00
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
Insertion Loss, typical	0.05√freq (GHz) (not applicable for elliptical waveguide)