



114EZN

Type N Female EZfit® for 1-1/4 in FXL1480 and AVA6-50 cable

Product Classification

| | |
|--------------|----------------------------------|
| Brand | EZfit® |
| Product Type | Wireless and radiating connector |

General Specifications

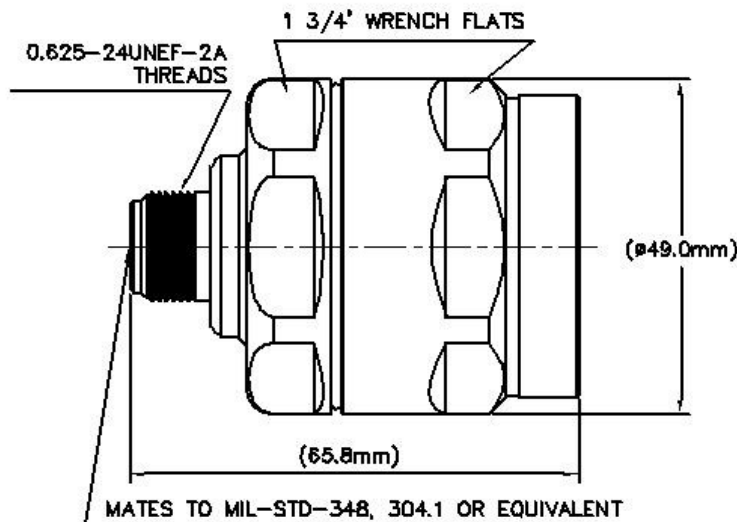
| | |
|----------------|--------------------------------------|
| Interface | N Female |
| Body Style | Straight |
| Brand | EZfit® |
| Mounting Angle | Straight |
| Ordering Note | CommScope® standard product (Global) |

Electrical Specifications

| | |
|--------------------------------------|----------------------|
| Connector Impedance | 50 ohm |
| Operating Frequency Band | 0 – 3300 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 |
| Average Power | 0.6 kW @ 900 MHz |
| Peak Power, maximum | 10.00 kW |
| Insertion Loss, typical | 0.05 dB |

114EZN

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 61169-4:9.5 |
| 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 | IEC 61169-1:15.2.4 |
| Pressurizable | No |

Dimensions

| | |
|--------------|--------------------|
| Nominal Size | 1-1/4 in |
| Diameter | 49.00 mm 1.93 in |
| Length | 65.80 mm 2.59 in |
| Weight | 284.00 g 0.63 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 |

114EZN

| | |
|---------------------------------|-----------------------------------|
| Water Jetting Test Mating | Mated |
| Water Jetting Test Method | IEC 60529:2001, IP66 |
| Moisture Resistance Test Method | IEC 60529, IP68 |
| Mechanical Shock Test Method | IEC 60068-2-27 |
| Vibration Test Method | IEC 60068-2-6 |
| Corrosion Test Method | IEC 60068-2-11, Test Condition Ka |

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 | 1.03 | 37.00 |
| 1000–1900 MHz | 1.04 | 34.00 |
| 1900–2200 MHz | 1.04 | 34.00 |
| 2200–2700 MHz | 1.04 | 34.00 |
| 2700–3300 MHz | 1.07 | 30.00 |

Regulatory Compliance/Certifications

| Agency | Classification |
|----------------------------|--|
| RoHS 2011/65/EU | Compliant by Exemption |
| China RoHS SJ/T 11364-2006 | Above Maximum Concentration Value (MCV) |
| ISO 9001:2008 | Designed, manufactured and/or distributed under this quality management system |



* Footnotes

| | |
|-------------------------|---|
| Immersion Depth | Immersion at specified depth for 24 hours |
| Insertion Loss, typical | 0.05v ⁻ freq (GHz) (not applicable for elliptical waveguide) |