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

Product Classification

Product Type: Wireless and radiating connector
Product Brand: EZfit®
Product Series: AVA6-50 | AVA6RK-50
Ordering Note: CommScope® standard product (Global)

General Specifications

Body Style: Straight
Cable Family: AVA6-50 | FXL-1480
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: 65.79 mm | 2.59 in
Diameter: 49.02 mm | 1.93 in
Nominal Size: 1-1/4 in

Outline Drawing
Electrical Specifications

3rd Order IMD at Frequency -116 dBm @ 1800 MHz
3rd Order IMD Test Method Two +43 dBm carriers
Insertion Loss Coefficient, typical 0.05
Average Power at Frequency 0.6 kW @ 900 MHz
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 – 4000 MHz
Outer Contact Resistance, maximum 0.3 mOhm
Peak Power, maximum 10 kW
RF Operating Voltage, maximum (vrms) 707 V

VSWR/Return Loss

<table>
<thead>
<tr>
<th>Frequency Band</th>
<th>VSWR</th>
<th>Return Loss (dB)</th>
</tr>
</thead>
<tbody>
<tr>
<td>50–1000 MHz</td>
<td>1.029</td>
<td>36.9</td>
</tr>
<tr>
<td>1000–1900 MHz</td>
<td>1.041</td>
<td>33.94</td>
</tr>
</tbody>
</table>
### 114EZNF

<table>
<thead>
<tr>
<th>Frequency</th>
<th>Insertion Loss (dB)</th>
<th>Return Loss (dB)</th>
</tr>
</thead>
<tbody>
<tr>
<td>1900–2200 MHz</td>
<td>3.041</td>
<td>33.94</td>
</tr>
<tr>
<td>2200–2700 MHz</td>
<td>3.041</td>
<td>33.94</td>
</tr>
<tr>
<td>2700–3300 MHz</td>
<td>3.065</td>
<td>30.04</td>
</tr>
</tbody>
</table>

### 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**: IEC 61169-1:15.2.4
- **Interface Durability**: 500 cycles
- **Interface Durability Method**: IEC 61169-4:9.5
- **Mechanical Shock Test Method**: IEC 60068-2-27

### 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**: IEC 60068-2-11, Test Condition Ka
- **Immersion Depth**: 1 m
- **Immersion Test Mating**: Mated
- **Immersion Test Method**: IEC 60529:2001, IP68
- **Moisture Resistance Test Method**: IEC 60529, IP68
- **Vibration Test Method**: IEC 60068-2-6
- **Water Jetting Test Mating**: Mated

### Packaging and Weights

- **Weight, net**: 284 g | 0.626 lb

### Regulatory Compliance/Certifications

- **Agency**: CHINA-ROHS
- **Classification**: Below maximum concentration value
114EZNF

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

Insertion Loss Coefficient, typical  0.05√freq (GHz) (not applicable for elliptical waveguide)

Immersion Depth  
Immersion at specified depth for 24 hours