# Product Specifications





### AL6DF-PSA

7-16 DIN Female Positive Stop™ for 1-1/4 in AVA6-50 cable

## **General Specifications**

Interface 7-16 DIN Female

Body Style Straight

Brand HELIAX® | Positive Stop™

Mounting Angle Straight

Ordering Note CommScope® standard product in Europe, the Middle East, and

Africa | CommScope® standard product in the United States and Canada

### **Electrical Specifications**

Connector Impedance 50 ohm

Operating Frequency Band 0 – 3700 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) 1415.00 V dc Test Voltage 4000 V

Outer Contact Resistance, maximum 1.50 mOhm

Inner Contact Resistance, maximum 0.80 mOhm
Insulation Resistance, minimum 5000 MOhm

Average Power 3.0 kW @ 900 MHz

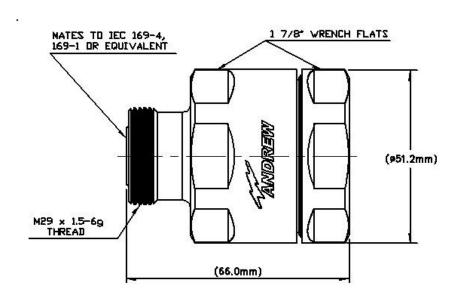
Peak Power, maximum 40.00 kW Insertion Loss, typical 0.05 dB Shielding Effectiveness -130 dB

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AL6DF-PSA

### **Outline Drawing**



## **Mechanical Specifications**

Outer Contact Attachment Method Ring-flare
Inner Contact Attachment Method Captivated
Outer Contact Plating Trimetal
Inner Contact Plating Silver
Attachment Durability 25 cycles
Interface Durability 50 cycles

Interface Durability Method IEC 61169-16:9.5

Connector Retention Tensile Force 1779 N | 400 lbf

Connector Retention Torque 10.85 N-m | 96.00 in lb

Insertion Force 200.17 N | 45.00 lbf

Insertion Force Method IEC 61169-1:15.2.4

Pressurizable No

### **Dimensions**

Nominal Size 1-1/4 in

## **Environmental Specifications**

Operating Temperature -55 °C to +85 °C (-67 °F to +185 °F) Storage Temperature -55 °C to +85 °C (-67 °F to +185 °F)

Immersion Depth 1 m
Immersion Test Matina Unmated

Immersion Test Method IEC 60529:2001, IP68

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#### AL6DF-PSA

Water Jetting Test Mating Unmated

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

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

Vibration Test Method MIL-STD-202F, Method 204D, Test Condition B
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)
45-1000 MHz	1.04	35.00
1010-2200 MHz	1.05	32.00
2210-2700 MHz	1.07	29.00
2710-3300 MHz	1.11	26.00

## **Regulatory Compliance/Certifications**

#### **Agency**

RoHS 2011/65/EU

China RoHS SJ/T 11364-2006

ISO 9001:2008

#### Classification

Compliant by Exemption

Above Maximum Concentration Value (MCV)

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)