## A5HM-D



#### D-Class 4.3-10 Male for 7/8 in AVA5-50 and AVA5-50FX cable

#### **Product Classification**

**Product Type** Wireless and radiating connector

# General Specifications

Interface4.3-10 MaleBody StyleStraightMounting AngleStraight

Ordering Note CommScope® standard product (Global)

### **Electrical Specifications**

Connector Impedance 50 ohm

Operating Frequency Band 0 – 5000 MHz

Cable Impedance 50 ohm

3rd Order IMD Dynamic Test MethodTwo +43 dBm carriers3rd Order IMD, typical-166 dBc @ 1800 MHz3rd Order IMD Test MethodTwo +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 0.40 mOhm
Insulation Resistance, minimum 5000 MOhm

Average Power 3.0 kW @ 900 MHz

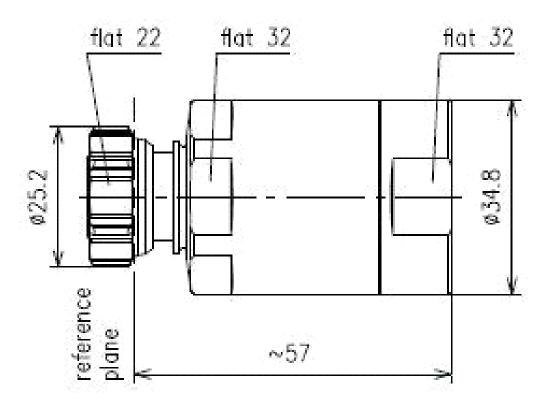
Peak Power, maximum40.00 kWInsertion Loss, typical0.05 dBShielding Effectiveness-130 dB

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# Outline Drawing



## Mechanical Specifications

Inner Contact Attachment MethodCaptivatedOuter Contact PlatingTrimetalInner Contact PlatingSilverAttachment Durability25 cyclesInterface Durability50 cycles

Interface Durability MethodIEC 61169-4:9.5Connector Retention Tensile Force1334 N | 300 lbfConnector Retention Torque8.13 N-m | 72.00 in lbInsertion Force200.17 N | 45.00 lbfInsertion Force MethodIEC 61169-1:15.2.4

**Pressurizable** No

### Dimensions

Nominal Size 7/8 in

 Diameter
 34.80 mm | 1.37 in

 Length
 67.00 mm | 2.64 in

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## A5HM-D

**Weight** 165.50 g | 0.36 lb

### **Environmental Specifications**

Operating Temperature  $-40 \,^{\circ}\text{C}$  to  $+85 \,^{\circ}\text{C}$  (-40 °F to  $+185 \,^{\circ}\text{F}$ ) Storage Temperature  $-55 \,^{\circ}\text{C}$  to  $+85 \,^{\circ}\text{C}$  (-67 °F to  $+185 \,^{\circ}\text{F}$ )

Immersion Depth1 mImmersion Test MatingMated

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 IEC 60068-2-27

Thermal Shock Test Method MIL-STD-202, Method 107, Test Condition A-1, -55 °C to +85 °C

Vibration Test Method IEC 60068-2-6
Corrosion Test Method IEC 60068-2-11

#### 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)
0-1000 MHz	1.02	40.00
1000-2700 MHz	1.04	34.00
2700-3800 MHz	1.07	30.00

# 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** 0.05v freq (GHz) (not applicable for elliptical waveguide)

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