

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

Product Classification

Product Type Wireless and radiating connector

Product Series

AVA5-50 | AVA5-50FX | AVA5RK-50

Ordering Note

CommScope® standard product (Global)

General Specifications

Body Style Straight

Cable Family AVA5-50 | AVA5-50FX

Inner Contact Attachment Method Captivated

Inner Contact Plating Silver

Interface 4.3-10 Female

Mounting AngleStraightOuter Contact PlatingTrimetal

Pressurizable No

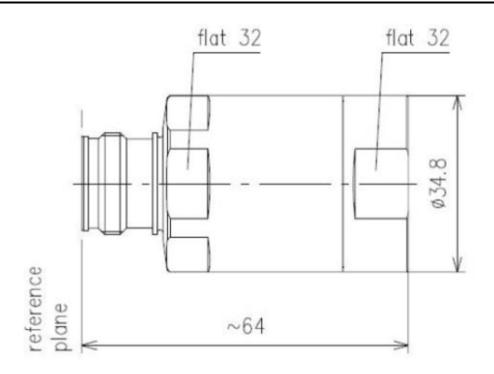
Dimensions

Length 64.01 mm | 2.52 in **Diameter** 34.8 mm | 1.37 in

Nominal Size 7/8 in

Outline Drawing





Electrical Specifications

3rd Order IMD at Frequency-166 -dBc @ 1800 MHz3rd Order IMD Dynamic Test MethodTwo +43 dBm carriers3rd Order IMD Test MethodTwo +43 dBm carriers

Insertion Loss Coefficient, typical 0.05

Average Power at Frequency 3.0 kW @ 900 MHz

Cable Impedance50 ohmConnector Impedance50 ohmdc Test Voltage4000 VInner Contact Resistance, maximum0.4 mOhmInsulation Resistance, minimum5000 MOhmOperating Frequency Band0 - 5000 MHz

Outer Contact Resistance, maximum1.5 mOhmPeak Power, maximum40 kW

RF Operating Voltage, maximum (vrms) 1415 V

Shielding Effectiveness -130 dB

VSWR/Return Loss

Frequency Band	VSWR	Return Loss (dB)
0-1000 MHz	1.02	40.09
1000-2700 MHz	1.041	33.94
2700-3800 MHz	1.065	30.04

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 Force200.17 N | 45 lbfInsertion Force MethodIEC 61169-1:15.2.4

Interface Durability 50 cycles

Interface Durability Method IEC 61169-4:9.5

Mechanical Shock Test Method IEC 60068-2-27

Environmental Specifications

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

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

Attenuation, Ambient Temperature20 °C | 68 °FAverage Power, Ambient Temperature40 °C | 104 °FCorrosion Test MethodIEC 60068-2-11

Immersion Depth1 mImmersion Test MatingMated

Immersion Test Method IEC 60529:2001, IP68

Moisture Resistance Test Method MIL-STD-202F, Method 106F

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

Water Jetting Test Mating Mated

Water Jetting Test Method IEC 60529:2001, IP66

Packaging and Weights



Weight, net 160.5 g | 0.354 lb

Regulatory Compliance/Certifications

Agency Classification

CHINA-ROHS Below maximum concentration value

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

