A5DF-D



D-Class 7-16 DIN Female for 7/8 in AVA5-50 and AVA5-50FX cable

Product Classification

Product Type Wireless and radiating connector

General Specifications

Interface 7-16 DIN Female

Body StyleStraightMounting AngleStraight

Ordering Note CommScope® standard product (Global)

Electrical Specifications

Connector Impedance 50 ohm

Operating Frequency Band 0 – 3700 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 ∨

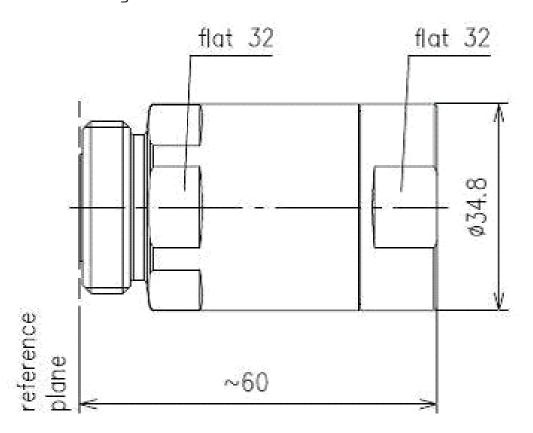
Outer Contact Resistance, maximum1.50 mOhmInner Contact Resistance, maximum0.40 mOhmInsulation Resistance, minimum5000 MOhm

Average Power 3.0 kW @ 900 MHz

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

COMMSCOPE°

Outline Drawing



Mechanical Specifications

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 61169-4:9.5 **Connector Retention Tensile Force** 1334 N | 300 lbf **Connector Retention Torque** 8.13 N-m | 72.00 in lb 200.17 N | 45.00 lbf **Insertion Force**

Pressurizable No

Dimensions

Insertion Force Method

Nominal Size 7/8 in

page 2 of 4 January 20, 2019



IEC 61169-1:15.2.4

A5DF-D

 Diameter
 34.80 mm | 1.37 in

 Length
 54.92 mm | 2.16 in

 Weight
 170.00 g | 0.37 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

China RoHS SJ/T 11364-2006 Above Maximum Concentration Value (MCV)

ISO 9001:2015 Designed, manufactured and/or distributed under this quality management system







* Footnotes

Immersion Depth Immersion at specified depth for 24 hours

page 3 of 4 January 20, 2019



A5DF-D

Insertion Loss, typical 0.05v⁻freq (GHz) (not applicable for elliptical waveguide)

page 4 of 4 January 20, 2019