Product Specifications

A5DM-D

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

General Specifications

Interface	7-16 DIN Male
Body Style	Straight
Mounting Angle	Straight
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 Method	Two +43 dBm carriers
3rd Order IMD, typical	-166 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	0.40 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

Product Specifications

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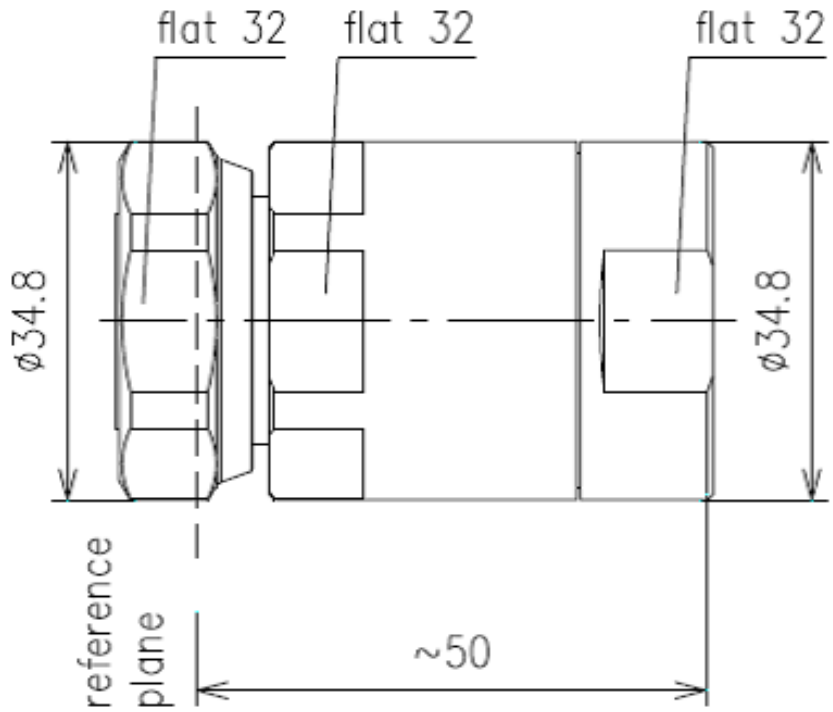
Outline Drawing



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
Insertion Force	200.17 N | 45.00 lbf
Insertion Force Method	IEC 61169-1:15.2.4
Pressurizable	No

Dimensions

Nominal Size	7/8 in
Diameter	34.80 mm | 1.37 in
Length	54.92 mm | 2.16 in
Weight	220.00 g | 0.49 lb

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)

Product Specifications

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Immersion Depth	1 m
Immersion Test Mating	Mated
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 9001:2008	Designed, manufactured and/or distributed under this quality management system

* Footnotes

Immersion Depth	Immersion at specified depth for 24 hours
Insertion Loss, typical	0.05$\sqrt{}$freq (GHz) (not applicable for elliptical waveguide)