

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
Ordering Note	CommScope® standard product (Global)

General Specifications

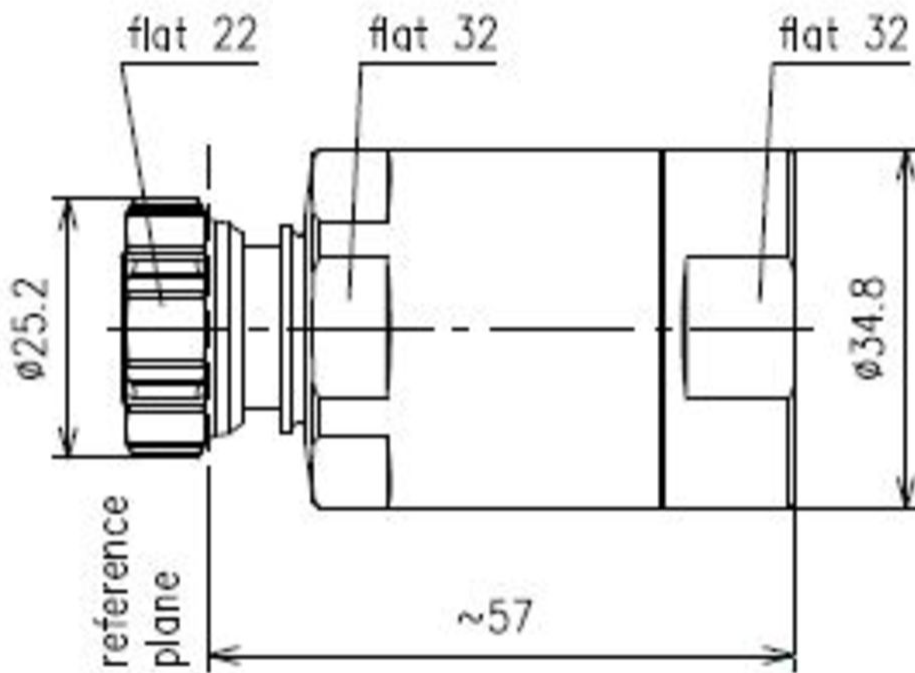
Body Style	Straight
Cable Family	AVA5-50 AVA5-50FX
Inner Contact Attachment Method	Captivated
Inner Contact Plating	Silver
Interface	4.3-10 Male
Mounting Angle	Straight
Outer Contact Plating	Trimetal
Pressurizable	No

Dimensions

Length	67.056 mm 2.64 in
Diameter	34.798 mm 1.37 in
Nominal Size	7/8 in

Outline Drawing

A5HM-D



Electrical Specifications

3rd Order IMD at Frequency	-166 dBc @ 1800 MHz
3rd Order IMD Dynamic Test Method	Two +43 dBm carriers
3rd Order IMD Test Method	Two +43 dBm carriers
Insertion Loss, typical	0.05 dB
Average Power at Frequency	3.0 kW @ 900 MHz
Cable Impedance	50 ohm
Connector Impedance	50 ohm
dc Test Voltage	4000 V
Inner Contact Resistance, maximum	0.4 mOhm
Insulation Resistance, minimum	5000 MOhm
Operating Frequency Band	0 – 5000 MHz

A5HM-D

Outer Contact Resistance, maximum	1.5 mOhm
Peak Power, maximum	40 kW
RF Operating Voltage, maximum (vrms)	1415 V
Shielding Effectiveness	-130 dB

VSWR/Return Loss

Frequency Band	VSWR	Return Loss (dB)
0–1000 MHz	1.03	40
1000–2700 MHz	1.06	32
2700–3800 MHz	1.07	30

Mechanical Specifications

Attachment Durability	25 cycles
Connector Retention Tensile Force	1,334.466 N 300 lbf
Connector Retention Torque	72 in lb 8.135 N-m
Insertion Force	200.17 N 45 lbf
Insertion Force Method	IEC 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 °C to +85 °C (-40 °F to +185 °F)
Storage Temperature	-55 °C to +85 °C (-67 °F to +185 °F)
Average Power, Ambient Temperature	40 °C 104 °F
Corrosion Test Method	IEC 60068-2-11
Immersion Depth	1 m
Immersion Test Mating	Mated
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

A5HM-D

Water Jetting Test Method

IEC 60529:2001, IP66

Packaging and Weights

Weight, net

165.5 g | 0.365 lb

Regulatory Compliance/Certifications

Agency

CHINA-ROHS

ISO 9001:2015

REACH-SVHC

ROHS

Classification

Below maximum concentration value

Designed, manufactured and/or distributed under this quality management system

Compliant as per SVHC revision on www.commscope.com/ProductCompliance

Compliant



* Footnotes

Immersion Depth

Immersion at specified depth for 24 hours

Insertion Loss, typical

$0.05\sqrt{\text{freq}}$ (GHz) (not applicable for elliptical waveguide)