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CommScope A5HM-D D-Class 4.3-10 Male for 7/8 in AVA5-50 and AVA5-50FX cable

SKU
ACC-CS-00061
MPN
A5HM-D

Description

The CommScope A5HM-D D-Class 4.3-10 Male RF Connector (SKU: ACC-CS-00061) is engineered for reliable performance with 7/8 in AVA5-50 and AVA5-50FX corrugated cables. Featuring a straight, free-hanging design, this connector ensures robust connectivity through its cable-captivated mechanism. Measuring 67.06 x 34.8 mm and weighing 165.5 g, it boasts a durable body with silver-plated inner contacts for enhanced signal conductivity.

The A5HM-D offers exceptional endurance, supporting over 50 mating cycles, and operates efficiently in temperatures ranging from -40 °C to 85 °C. Its wide frequency range of 0 GHz to 5000 GHz and impressive 3rd Order PIM rating of ≤ -166 dBc make it suitable for demanding RF applications. Electrical specifications include an input impedance of 50 Ω, inner contact resistance of ≤ 0 mΩ, and outer contact resistance of ≤ 2 mΩ, with insulation resistance rated at ≥ 5000 mΩ. It handles peak power up to 40 kW and an RF...

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CommScope

CommScope (NASDAQ: COMM) helps design, build and manage wired and wireless networks around the world. As a communications infrastructure leader, we shape the always-on networks of tomorrow. For more than 40 years, our global team of greater than 20,000 employees, innovators and technologists have empowered customers in all regions of the world to anticipate what’s next and push the boundaries of ...

RF Connector Interface

RF Interface	Body Shape	Mounting
4.3-10 Male	Straight	Free Hanging

RF Specification

Start Frequency
0 GHz
Stop Frequency
5000 GHz
Peak Power
40 kW
PIM, 3rd Order
≤ -166 dBc
Input Impedance
50 Ω
Inner Contact Resistance
≤ 0.4 mΩ
Insulation Resistance
≥ 5000 mΩ
Outer Contact Resistance

≤ 1.5 mΩ
RF Operating Voltage
≤ 1415 Vrms
VSWR Measurement

Frequency	VSWR	Return Loss	Insertion Loss
1000 MHz	≤ 1.02:1	≤ 40.09 dB	0.05 dB
2700 MHz	≤ 1.05:1	≤ 31.92 dB	0.05 dB
3800 MHz	≤ 1.07:1	≤ 30.04 dB	0.05 dB

Physical Specification

Cable Group
7/8 Corrugated
Dimensions
67.06 x 34.8
Weight
165.5 g
Compliance/Certifications
ISO 9001 Quality Management
,
RoHS
Mechanical Compliance
IEC 60068-2-11: Salt Mist
,
IEC 60068-2-27: Mechanical Shock
,
IEC 60068-2-6: Vibration
Conductor Attachment
Cable, Captivated
Contact Plating
Silver
Min. Operating Temperature
-40 °C
Max. Operating Temperature
85 °C
Ingress Protection
IP68
Mating Cycles
> 50

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