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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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RF Connector Interface

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

RF Specification

Start Frequency:	0 GHz	Input Impedance:	50
Stop Frequency:	5000 GHz	Inner Contact Resistance:	≤ 0.4 mΩ
Peak Power:	40 kW	Insulation Resistance:	≥ 5000 mΩ
PIM, 3rd Order:	≤ -166 dBc	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	Conductor Attachment:	Cable, Captivated
Dimensions:	67.06 x 34.8	Contact Plating:	Silver
Weight:	165.5 g	Min. Operating Temperature:	-40 °C
Compliance/Certifications:	ISO 9001 Quality Management , RoHS	Max. Operating Temperature:	85 °C
		Ingress Protection:	IP68
Mechanical Compliance:	IEC 60068-2-11: Salt Mist , IEC 60068-2-27: Mechanical Shock , IEC 60068-2-6: Vibration	Mating Cycles:	> 50

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