

# 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  $\leq -166$  dBc make it suitable for demanding RF applications. Electrical specifications include an input impedance of 50  $\Omega$ , inner contact resistance of  $\leq 0$  m $\Omega$ , and outer contact resistance of  $\leq 2$  m $\Omega$ , with insulation resistance rated at  $\geq 5000$  m $\Omega$ . It handles peak power up to 40 kW and an RF...

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# RF Connector Interface

<b>RF Interface</b>	<b>Body Shape</b>	<b>Mounting</b>
4.3-10 Male	Straight	Free Hanging

## RF Specification

Start Frequency:	0 GHz	Input Impedance:	50
Stop Frequency:	5000 GHz	Inner Contact Resistance:	$\leq 0.4 \text{ m}\Omega$
Peak Power:	40 kW	Insulation Resistance:	$\geq 5000 \text{ m}\Omega$
PIM, 3rd Order:	$\leq -166 \text{ dBc}$	Outer Contact Resistance:	$\leq 1.5 \text{ m}\Omega$
		RF Operating Voltage:	$\leq 1415 \text{ Vrms}$

## VSWR Measurement

Frequency	VSWR	Return Loss	Insertion Loss
1000 MHz	$\leq 1.02:1$	$\leq 40.09 \text{ dB}$	0.05 dB
2700 MHz	$\leq 1.05:1$	$\leq 31.92 \text{ dB}$	0.05 dB
3800 MHz	$\leq 1.07:1$	$\leq 30.04 \text{ dB}$	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	Max. Operating Temperature:	85 °C
RoHS	,	Ingress Protection:	IP68
Mechanical Compliance:	IEC 60068-2-11: Salt Mist	Mating Cycles:	> 50
	,		
	IEC 60068-2-27: Mechanical Shock		
	,		
	IEC 60068-2-6: Vibration		

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