

# 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...

[Read More](#)



**COMMSCOPE®**

## 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

<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:	≤ 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	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			

Disclaimer: Although care has been taken to ensure the accuracy, completeness and reliability of the information provided, Powertec assumes no responsibility therefore. The user of the information agrees that the information is subject to change without notice. Powertec assumes no responsibility for the consequences of use of such information, nor for any infringement of third party intellectual property rights which may result from its use. IN NO EVENT SHALL POWERTEC BE LIABLE FOR ANY DIRECT, INDIRECT, SPECIAL, OR INCIDENTAL DAMAGE RESULTING FROM, ARISING OUT OF OR IN CONNECTION WITH THE USE OF THE INFORMATION.

