

Page



Powertec Wireless Technology
ABN: 42 082 948 463
PO Box 1034, Ashmore City
Queensland, Australia, 4214
sales@powertec.com.au
1300 769 378

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 m Ω , and outer contact resistance of ≤ 2 m Ω , with insulation resistance rated at ≥ 5000 m Ω . It handles peak power up to 40 kW and an RF...

[Read More](#)





[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 m Ω

Insulation Resistance

$\geq 5000 \text{ m}\Omega$

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](#)

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

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.

