

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...

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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: | $\leq 0.4 \text{ m}\Omega$ |
| 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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