

CommScope L4HF-D 4.3-10 Female for 1/2 in AL4RPV-50, LDF4-50A, HL4RPV-50 cable

SKU: ACC-CS-00060
 MPN: L4HF-D

Description

The CommScope L4HF-D 4.3-10 Female RF Connector is engineered for 1/2 inch corrugated cables such as AL4RPV-50, LDF4-50A, and HL4RPV-50. This high-quality connector features a straight body and free-hanging mounting style, ensuring reliable attachment with its cable-captivated mechanism. With dimensions of 80.52 x 25 mm and a weight of 101.75 g, it promises robust performance and ease of installation.

Constructed with a durable body and silver-plated inner contacts, the L4HF-D is built to endure over 100 mating cycles, operating effectively within a temperature range of -55 °C to 85 °C. It supports a broad frequency range from 0 to 8800 GHz, offering a 3rd Order PIM rating of ≤ -116 dBc. The connector ensures excellent electrical performance, with inner and outer contact resistances of ≤ 1 m Ω , and an input impedance of 50 Ω . It can handle a peak power of 23 kW and operates at an RF voltage of ≤ 884 Vrms.

Certified to ISO 9001 and RoHS...

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RF Connector Interface



| RF Interface | Body Shape | Mounting |
|---------------|------------|--------------|
| 4.3-10 Female | Straight | Free Hanging |

CommScope RF Specification

CommScope

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| | | | |
|------------------|------------|---------------------------|------------|
| Start Frequency: | 0 GHz | Input Impedance: | 50 |
| Stop Frequency: | 8800 GHz | Inner Contact Resistance: | ≤ 1 mΩ |
| Peak Power: | 22.5 kW | Insulation Resistance: | ≥ 5000 mΩ |
| PIM, 3rd Order: | ≤ -116 dBc | Outer Contact Resistance: | ≤ 1 mΩ |
| | | RF Operating Voltage: | ≤ 884 Vrms |

VSWR Measurement

| Frequency | VSWR | Return Loss | Insertion Loss |
|-----------|----------|-------------|----------------|
| 45 MHz | ≤ 1.02:1 | ≤ 40.09 dB | 0.05 dB |
| 1000 MHz | ≤ 1.03:1 | ≤ 36.61 dB | |
| 2700 MHz | ≤ 1.05:1 | ≤ 32.26 dB | |
| 3800 MHz | ≤ 1.11:1 | ≤ 25.96 dB | |

Physical Specification

| | | | |
|----------------------------|----------------------------------|-----------------------------|-------------------|
| Cable Group: | 1/2 Corrugated | Conductor Attachment: | Cable, Captivated |
| Dimensions: | 80.52 x 25 | Contact Plating: | Silver |
| Weight: | 101.75 g | Min. Operating Temperature: | -55 °C |
| Compliance/Certifications: | ISO 9001 Quality Management | Max. Operating Temperature: | 85 °C |
| RoHS | | Ingress Protection: | IP66 |
| Mechanical Compliance: | IEC 60068-2-27: Mechanical Shock | Mating Cycles: | > 100 |

IEC 60068-2-14: Change of Temperature

IEC 60068-2-6: Vibration

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