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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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[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 Female Straight](#) [Free Hanging](#)

RF Specification

Start Frequency

0 GHz

Stop Frequency

8800 GHz

Peak Power

22.5 kW

PIM, 3rd Order

≤ -116 dBc

Input Impedance

50 Ω

Inner Contact Resistance

≤ 1 m Ω

Insulation Resistance

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

Outer Contact Resistance

$\leq 1 \text{ m}\Omega$

RF Operating Voltage

$\leq 884 \text{ Vrms}$

VSWR Measurement

Frequency VSWR Return Loss Insertion Loss

45 MHz $\leq 1.02:1 \leq 40.09 \text{ dB}$ 0.05 dB

1000 MHz $\leq 1.03:1 \leq 36.61 \text{ dB}$

2700 MHz $\leq 1.05:1 \leq 32.26 \text{ dB}$

3800 MHz $\leq 1.11:1 \leq 25.96 \text{ dB}$

Physical Specification

Cable Group

[1/2 Corrugated](#)

Dimensions

80.52 x 25

Weight

101.75 g

Compliance/Certifications

[ISO 9001 Quality Management](#)

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[RoHS](#)

Mechanical Compliance

[IEC 60068-2-27: Mechanical Shock](#)

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[IEC 60068-2-14: Change of Temperature](#)

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[IEC 60068-2-6: Vibration](#)

Conductor Attachment

[Cable, Captivated](#)

Contact Plating

[Silver](#)

Min. Operating Temperature

-55 °C

Max. Operating Temperature

85 °C

Ingress Protection

[IP66](#)

Mating Cycles

> 100

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