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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 mΩ, 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 mΩ
Insulation Resistance
≥ 5000 mΩ
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
Dimensions
80.52 x 25
Weight
101.75 g
Compliance/Certifications
ISO 9001 Quality Management
,
RoHS
Mechanical Compliance
IEC 60068-2-27: Mechanical Shock
,
IEC 60068-2-14: Change of Temperature
,
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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