

# 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  $\leq -116$  dBc. The connector ensures excellent electrical performance, with inner and outer contact resistances of  $\leq 1$  mΩ, and an input impedance of 50 Ω. It can handle a peak power of 23 kW and operates at an RF voltage of  $\leq 884$  Vrms.

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# RF Connector Interface

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

## RF Specification

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Start Frequency:	0 GHz	Input Impedance:	50
Stop Frequency:	8800 GHz	Inner Contact Resistance:	$\leq 1 \text{ m}\Omega$
Peak Power:	22.5 kW	Insulation Resistance:	$\geq 5000 \text{ m}\Omega$
PIM, 3rd Order:	$\leq -116 \text{ dBc}$	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

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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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