

CommScope LDF4-50A, HELIAX(r) Low Density Foam Coaxial Cable, corrugated copper, 1/2 in, black PE jacket - 100m

SKU: ACC-CS-00007100

MPN: LDF4-50A

Description

The CommScope LDF4-50A HELIAX® Low Density Foam Coaxial Cable is a premium 1/2-inch corrugated copper cable designed for high-performance RF systems. With a robust black PE jacket, this cable offers excellent durability and is available in 100m lengths. It features a 15.87 mm outer diameter and a 4.83 mm inner conductor, providing 110 dB of shielding effectiveness, crucial for maintaining low Passive Intermodulation (PIM) levels.

Ideal for large antenna systems and passive Distributed Antenna Systems, the LDF4-50A supports a wide operating frequency range from 1 GHz to 8800 GHz. The cable meets ISO 9001 Quality Management and RoHS compliance standards, ensuring reliable performance and adherence to environmental regulations.

Performance data highlights a VSWR of $\leq 1.13:1$ and a Return Loss of ≤ 24.30 dB across frequencies from 680 MHz to 2300 MHz, ensuring minimal signal reflection and high efficiency. Weighing 220g, the cable is...

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RF Specification

Start Frequency:	1 GHz	Stop Frequency:	8800 GHz
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VSWR Measurement

Frequency	VSWR	Return Loss
680 MHz	≤ 1.13:1	≤ 24.3 dB
800 MHz	≤ 1.13:1	≤ 24.3 dB
1700 MHz	≤ 1.13:1	≤ 24.3 dB
2300 MHz	≤ 1.13:1	≤ 24.3 dB

Physical Specification

Subtype:	Cable Reel	Length:	100 m
Compliance/Certifications:	RoHS	Weight:	220 g
ISO 9001 Quality Management			

LDF4-50A

Min. Frequency:	0 GHz	Max. Frequency:	8.8 GHz
Impedance:	50	Colour:	Black
Min. Bend Radius Static:	50.8 mm	Weight (g/m):	220 g
Min. Bend Radius Dynamic:	127 mm		

Cable Layers

Layer	Diameter	Materials
Inner Conductor	4.83 mm	Copper Clad Aluminium (CCA)
Dielectric	12.95 mm	Foamed Polyethylene (EPE)
Outer Conductor	13.97 mm	Corrugated Copper Tube
Outer Jacket	15.88 mm	Polyethylene (PE)

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