

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...

[Read More](#)



COMMSCOPE®

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 Specification

Start Frequency: 1 GHz Stop Frequency: 8800 GHz

VSWR Measurement

Frequency	VSWR	Return Loss
680 MHz	$\leq 1.13:1$	≤ 24.3 dB
800 MHz	$\leq 1.13:1$	≤ 24.3 dB
1700 MHz	$\leq 1.13:1$	≤ 24.3 dB
2300 MHz	$\leq 1.13:1$	≤ 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)

Disclaimer: Although care has been taken to ensure the accuracy, completeness and reliability of the information provided, Powertec assumes no responsibility therefore. The user of the information agrees that the information is subject to change without notice. Powertec assumes no responsibility for the consequences of use of such information, nor for any infringement of third party intellectual property rights which may result from its use. IN NO EVENT SHALL POWERTEC BE LIABLE FOR ANY DIRECT, INDIRECT, SPECIAL, OR INCIDENTAL DAMAGE RESULTING FROM, ARISING OUT OF OR IN CONNECTION WITH THE USE OF THE INFORMATION.

