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**CommScope LDF4-50, HELIAX(r) Low  
Density Foam Coaxial Cable,  
corrugated copper, 1/2 in, black  
non-halogenated, fire retardant  
polyolefin jacket - 250m**

SKU  
ACC-CS-00067

MPN

LDF4RK-50A

## Description

The CommScope LDF4-50 HELIAX® Low Density Foam Coaxial Cable is a high-performance solution for RF applications, offering durability and compliance with industry standards. This 1/2 inch coaxial cable features a corrugated copper construction and is encased in a black non-halogenated, fire-retardant polyolefin jacket, ensuring safety and reliability. Measuring 250 metres, the cable weighs 62.5 kg, making it suitable for extensive installations.

Engineered to handle mating cycles, the LDF4-50 operates effectively within a frequency range of 1 GHz to 8800 GHz, making it versatile for various communication needs. It is compliant with RoHS and ISO 9001 quality management standards and meets IEC 60068-2-11 salt mist mechanical testing requirements, ensuring robust performance in challenging environments.

The cable delivers excellent electrical performance, with a VSWR of  $\leq 1.13:1$  and a Return Loss of  $\leq 24.30$  dB at frequencies ranging from 680...

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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 Specification

Start Frequency

1 GHz

Stop Frequency

8.8 GHz

VSWR Measurement

Frequency	VSWR	Return Loss
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680 MHz	$\leq 1.13:1$	$\leq 24.3$ dB
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800 MHz	$\leq 1.13:1$	$\leq 24.3$ dB
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1700 MHz	$\leq 1.13:1$	$\leq 24.3$ dB
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2300 MHz	$\leq 1.13:1$	$\leq 24.3$ dB
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## Physical Specification

Subtype

[Cable Reel](#)

Compliance/Certifications

[ISO 9001 Quality Management](#)

## RoHS

Length

250 m

Weight

250 g

## LDF4-50A

Min. Frequency

0 GHz

Impedance

50  $\Omega$

Min. Bend Radius Static

50.8 mm

Min. Bend Radius Dynamic

127 mm

Max. Frequency

8.8 GHz

Colour

Black

Weight (g/m)

220 g

Cable Layers

Layer	Diameter	Materials
Inner Conductor	4.83 mm	<a href="#">Copper Clad Aluminium (CCA)</a>
Dielectric	12.95 mm	<a href="#">Foamed Polyethylene (EPE)</a>
Outer Conductor	13.97 mm	<a href="#">Corrugated Copper Tube</a>
Outer Jacket	15.88 mm	<a href="#">Polyethylene (PE)</a>

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