

# CommScope AVA5-50, HELIAX(r) Andrew Virtual Air(tm) Coaxial Cable, corrugated copper, 7/8 in, black PE jacket - 500m

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 MPN: AVA5-50

## Description

The CommScope AVA5-50 HELIAX® Andrew Virtual Air™ Coaxial Cable is a robust 7/8-inch corrugated copper cable, ideal for distributed antenna systems (DAS) and cellular base stations. With a durable black PE jacket, this cable is designed for long runs in large antenna systems, offering excellent performance and reliability over 500 metres.

The AVA5-50 features a solid corrugated copper outer conductor, providing 110 dB of shielding effectiveness and meeting low Passive Intermodulation (PIM) targets. It supports an operating frequency range from 1 GHz to 5 GHz, ensuring versatile application in various RF environments. The cable maintains a consistent outer diameter of 27.5 mm and a 9 mm inner conductor diameter, ensuring compatibility with existing systems.

Performance data shows a VSWR of  $\leq 1.13:1$  and a Return Loss of  $\leq 24.30$  dB at frequencies of 680 MHz, 800 MHz, and 1700 MHz, indicating superior signal integrity. The cable is compliant...

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## RF Specification

### CommScope

**COMMScope®**

Start Frequency:

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VSWR Measurement

1 GHz

Stop Frequency:

5 GHz

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

## Physical Specification

Subtype:	Cable Reel	Length:	500 m
Compliance/Certifications:	ISO 9001 Quality Management	Weight:	450 g
RoHS			

## AVA5-50FX

Min. Frequency:	0 GHz	Max. Frequency:	5 GHz
Impedance:	50	Colour:	Black
Min. Bend Radius Static:	127 mm	Weight (g/m):	410 g
Min. Bend Radius Dynamic:	254 mm		

### Cable Layers

Layer	Diameter	Materials
Inner Conductor	9.45 mm	Copper Tube
Dielectric	24.13 mm	Foamed Polyethylene (EPE)
Outer Conductor	25.40 mm	Corrugated Copper Tube
Outer Jacket	27.99 mm	Polyethylene (PE)

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