

# CommScope AVA7-50, HELIAX(r) Andrew Virtual Air(tm) Coaxial Cable, corrugated copper, 1-5/8 in, black PE jacket - 500m

SKU: ACC-CS-00051

MPN: AVA7-50

## Description

The CommScope AVA7-50 HELIAX® is a 1-5/8-inch corrugated coaxial cable designed for demanding RF applications such as Distributed Antenna Systems (DAS), UHF, and cellular base stations. Its construction features corrugated copper inner and outer conductors, ensuring low attenuation and providing a shielding effectiveness of 110 dB. The cable supports frequencies up to 2700 MHz, making it suitable for large-scale, horizontal or vertical runs within major antenna systems.

This cable measures 500 metres and weighs 1070 grams, with a standard 51 mm outer jacket diameter and an 18.1 mm inner conductor diameter. Its performance is marked by a VSWR of  $\leq 1.13:1$  and a Return Loss of  $\leq 24.30$  dB across various frequencies, including 680 MHz, 806 MHz, and 1700 MHz. The cable complies with ISO 9001 Quality Management and RoHS standards, ensuring reliable performance and environmental safety.

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# RF Specification

Start Frequency: 1 GHz Stop Frequency: 2.7 GHz

## VSWR Measurement

Frequency	VSWR	Return Loss
680 MHz	$\leq 1.13:1$	$\leq 24.3$ dB
806 MHz	$\leq 1.13:1$	$\leq 24.3$ dB
1700 MHz	$\leq 1.13:1$	$\leq 24.3$ dB

# Physical Specification

Subtype: Cable Reel Length: 500 m

Compliance/Certifications: ISO 9001 Quality Management Weight: 1070 g

RoHS

## AVA7-50

Min. Frequency: 0 GHz Max. Frequency: 2.7 GHz

Impedance: 50 Colour: Black

Min. Bend Radius Static: 203.2 mm Weight (g/m): 1,070 g

Min. Bend Radius Dynamic: 381 mm

# Cable Layers

Layer	Diameter	Materials
Inner Conductor	18.16 mm	Corrugated Copper Tube
Dielectric	44.45 mm	Foamed Polyethylene (EPE)
Outer Conductor	46.36 mm	Corrugated Copper Tube
Outer Jacket	51.05 mm	Polyethylene (PE)

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