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

SKU
ACC-CS-00049
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 ≤ 1.13:1 and a Return Loss of ≤ 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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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
5 GHz
VSWR Measurement

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

Physical Specification

Subtype
Cable Reel
Compliance/Certifications
ISO 9001 Quality Management
,
RoHS
Length
500 m

Weight
450 g

AVA5-50FX

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