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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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RF Specification

CommScope

Start Frequency:	1 GHz	Stop Frequency:	5 GHz

VSWR Measurement

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 ...

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 , RoHS	Weight:	450 g

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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