

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

SKU: ACC-CS-00015

MPN: AVA5-50FX

Description

The CommScope AVA5-50FX is a high-performance 7/8-inch corrugated coaxial cable, designed for demanding applications in large antenna systems, including Distributed Antenna Systems (DAS), UHF, and cellular base stations. This cable features a solid corrugated copper outer conductor, providing 110 dB shielding effectiveness and low Passive Intermodulation (PIM) targets, ensuring superior signal integrity.

Measuring 500 metres and weighing 205 kilograms, this cable is built to endure multiple mating cycles and operates effectively across a frequency range of 1 GHz to 5000 GHz. It delivers excellent performance with a Voltage Standing Wave Ratio (VSWR) of $\leq 1.13:1$ and Return Loss of ≤ 24.30 dB at various frequency points, including 680 MHz, 800 MHz, 960 MHz, 1700 MHz, and 2200 MHz.

Encased in a durable black PE jacket, the AVA5-50FX is compliant with ISO 9001 Quality Management and RoHS standards, reflecting its commitment to quality and...

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RF Specification

CommScope

COMMScope®

Start Frequency:

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 ...

VSWR Measurement

1 GHz

Stop Frequency:

5000 GHz

Frequency	VSWR	Return Loss
680 MHz	≤ 1.13:1	≤ 24.3 dB
800 MHz	≤ 1.13:1	≤ 24.3 dB
1700 MHz	≤ 1.13:1	≤ 24.3 dB

Physical Specification

Subtype:	Cable Reel	Length:	500 m
Compliance/Certifications:	ISO 9001 Quality Management	Weight:	410 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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