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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 ≤ 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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CommScope

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
5000 GHz
VSWR Measurement

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
Compliance/Certifications
ISO 9001 Quality Management
,
RoHS

Length
500 m
Weight
410 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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