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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 ≤ 1.13:1 and a Return Loss of ≤ 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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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
2.7 GHz
VSWR Measurement

Frequency	VSWR	Return Loss
680 MHz	≤ 1.13:1	≤ 24.3 dB
806 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
1070 g

AVA7-50

Min. Frequency
0 GHz
Impedance
50 Ω
Min. Bend Radius Static
203.2 mm
Min. Bend Radius Dynamic
381 mm
Max. Frequency
2.7 GHz
Colour
Black
Weight (g/m)
1,070 g
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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