

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 $\leq 1.13:1$ 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

| | | | |
|------------------|-------|-----------------|-------|
| 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 | Length: | 500 m |
| Compliance/Certifications: | ISO 9001 Quality Management | Weight: | 450 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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