

AXD RG59 Coaxial Cable 100M CCA

Physical and Mechanical Characteristics

Component	Material/Spec	Details
Inner Conductor	Copper Clad Steel (CCS)	Solid wire, typically 0.58mm to 0.81mm diameter (around 20-22 AWG).
Dielectric	Solid Polyethylene (PE) or Foam PE	Diameter around 3.7mm.
Outer Conductor (Braid)	Copper Clad Aluminum (CCA)	Braided shield, typically 96% coverage is an option.
Jacket	PVC (Polyvinyl Chloride)	Black or white is common. Overall diameter approx. 6.1mm.
Length	100 meters (approx. 328 feet)	Supplied on a wooden or plastic reel.
Operating Temperature	-20°C to +70°C	
Siamese Option	Yes	Often includes an attached power cable (e.g., 2x0.5mm ² CCA power cores) in a single jacket.

Electrical Specifications

Property	Value	Details
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Impedance	75 Ω \pm 3 Ω	Standard for video applications.
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Capacitance	~67 pF/m (picofarads per meter)
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Velocity of Propagation	~66%
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Max Frequency	1 GHz	Best suited for lower frequencies.
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DC Resistance (Inner Conductor)	~158 Ω/Km (Ohms per kilometer)
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Attenuation (Signal Loss)

Attenuation values indicate signal loss in decibels (dB) over a 100-meter distance.

Frequency (MHz)	Nominal Attenuation (dB/100m)
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10 MHz	~4.0 dB
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50 MHz	~4.9 dB
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100 MHz	~7.2 dB
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400 MHz	~22.7 dB
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1000 MHz	~38.0 dB
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