

Coaxial Cable Selection Guide

Cable Type	Impedance	Typical Application	Best Feature	Trade Off
RG174 A/U	50 Ohm	Transmission of data signals, such as LAN/WAN or GPS	Small diameter; flexible	Higher signal loss than RG58 C/U
RG316	50 Ohm	Transmission of data signals in applications such as LAN/WAN or GPS in situations where high temperature performance is needed	Small diameter; high temperature rating	Higher signal loss than larger diameter cable such as RG58 C/U and higher cost than standard RG174 A/U
RG58 C/U	50 Ohm	Transmission of data signals in applications such as antenna feed cables or Ethernet backbones	Lower signal loss than smaller diameter cable such as RG174 A/U	Less flexible than smaller diameter cable such as RG174 A/U
RG142 B/U	50 Ohm	Transmission of data signals in applications such as antenna feed cables or Ethernet backbones in situations where high temperature performance is needed	Lower signal loss than smaller diameter cable such as RG174 A/U; high temperature rating	Less flexible than smaller diameter cable such as RG174 A/U and higher cost than RG58 C/U cable.
RG59 B/U	75 Ohm	Transmission of a video or audio signal in applications such as security systems or CATV	Lower signal loss than smaller diameter cable such as RG179 B/U	Less flexible than smaller diameter cable such as RG179 B/U
RG223 /U	50 Ohm	Transmission of data signals in applications such as LAN/WAN or GPS in situations where low signal loss and high shielding performance is needed	Lower signal loss and better shielding than smaller diameter cable such as RG174 A/U or RG58 C/U cables	Less flexible than smaller diameter cable such as RG174 A/U and higher cost than single shielded RG58 C/U cable
RG213 /U	50 Ohm	Transmission of data signals in applications such as antenna feed cables in situations where low signal loss and high operating voltage performance is needed	Lower signal loss and higher operating voltage than RG58 C/U cable	Larger diameter and less flexible than RG58 C/U cable
RG179 B/U	75 Ohm	Transmission of a video signal in applications such as security systems where high temperature performance is needed	Small diameter; flexible; high temperature rating	Higher signal loss and cost than larger diameter cable such as RG59 B/U
RG187 A/U	75 Ohm	Transmission of a video signal in applications such as security systems where high temperature performance is needed	Small diameter; flexible; high temperature rating	Higher signal loss and cost than larger diameter cable such as RG59 B/U

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