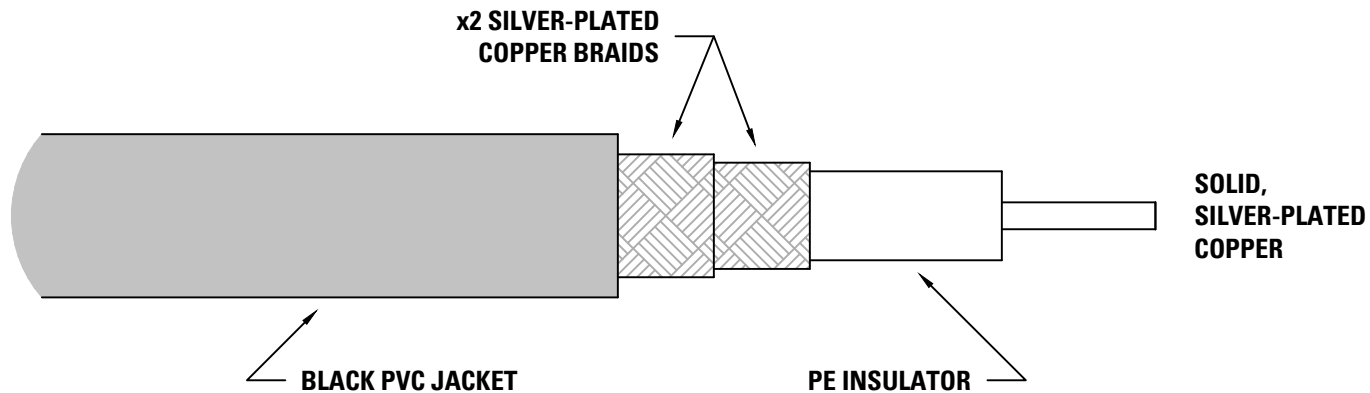


RG-223 cable is a type of high-frequency coaxial cable which offers improved shielding and lower signal loss compared to similar cables. As such, it is ideal for many military & civil radio frequency (RF) operations including telecommunications, network (LAN/WAN) connections, GPS, test equipment, and ham/CB/other radio setups, as well as any other signal transfer applications in fields such as aerospace, scientific, and medical. Furthermore, this cable type is approved for direct burial.

The cable consists of a solid inner conductor composed of silver-plated copper wire, which is then surrounded by a polyethylene dielectric tube. Outside the dielectric are two shields, which are also made of silver-plated copper. Covering all of this is a black, non-contaminating PVC jacket for additional physical protection. For your convenience, we offer this cable in several cable lengths (see below).

- Cable Type: RG-223/U coaxial cable
    - Overall Diameter: 0.212" [5.38 mm]
  - Inner Conductor: 19 AWG silver-plated copper
    - Outer Diameter: 0.035" [0.89 mm]
  - Dielectric Insulator: Solid, low density polyethylene (PE)
    - Outer Diameter: 0.116" [2.95 mm]
  - Shields: Two (2) silver-plated copper braids
    - Coverage: 95% each
    - 1<sup>st</sup> Shield Diameter: 0.138" [3.51 mm]
    - 2<sup>nd</sup> Shield Diameter: 0.160" [4.06 mm]
  - Jacket: Black, non-contaminating polyvinyl chloride (PVC), Type IIA per MIL-C-17
- Impedance: 50 Ω
  - Capacitance: 32.2 pF/ft
  - Velocity of Propagation: 66%
  - Operating Frequency: 12.4 GHz Maximum
  - Voltage Rating: 1900 V<sub>RMS</sub> Maximum
  - Temperature Rating: -40°C (-40°F) to 90°C (194°F)
  - RoHS Compliant & suitable for direct burial
- Cable Lengths Available: 1 ft, 2 ft, 4 ft, 10 ft, 25 ft, 50 ft, 100 ft, 250 ft
  - Remington Industries also offers pre-made [coaxial cable assemblies](#) fitted with a variety of RF connectors to best suit your application



## RG-223/U Coaxial Cable Data Sheet

### Remington Industries is proud to offer our Custom Wire Services

Our exclusive inventory of in-stock wire and ability to procure wire of all kinds makes us the perfect partner for wire purchasing and custom wire services. We are proud to provide essential, high quality wire for engineering projects, educational science projects, coil winding, and electronics applications.

Some of our many wire services include the following:

- Wire Re-Packaging
- Bifilar & Trifilar Windings
- Wire Processing
- Coil Winding
- Wire Procurement Services

If you have any questions or need any information about our [Wire Services](#), feel free to contact us! It only takes one call to get experienced assistance.

**Contact us by phone:**  
**(815) 385-1987**

**Contact us by email:**  
[sales@remingtonindustries.com](mailto:sales@remingtonindustries.com)

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