

RADIOSHACK RG6 BARE COPPER COAXIAL CABLE 616M

While an official, standalone PDF datasheet for a specific legacy **RadioShack RG6 bare copper coaxial cable 616M** is not publicly available in search results, its specifications align with generic, industry-standard RG6/U bare copper cables. The "616M" is likely an old product number referring to a **616-foot** spool.

The key specifications are based on general manufacturer datasheets for similar 18 AWG solid bare copper RG6 cable, such as those from Structured Cable Products (SCP) and Priority Wire & Cable.

Construction Specifications

- **Conductor:** 18 AWG (0.040 in diameter) Solid Bare Copper (BC).
- **Dielectric:** Gas-injected Foamed Polyethylene (PE).
- **Shielding:** Typically Dual Shielded (100% Bonded Aluminum Foil + 60% Aluminum Braid) or Quad Shielded (additional foil and braid layers).
- **Jacket:** PVC (Polyvinyl Chloride), usually black or white, suitable for indoor (CMR/CL2) or sometimes outdoor (CMX/Burial) use depending on the specific model.
- **Outer Diameter:** Approximately 0.27 - 0.298 inches (6.8mm - 7.5mm).

Electrical and Performance Characteristics

- **Impedance:** 75 Ohm nominal.
- **Capacitance:** Approximately 16.2 pF/ft (picofarads per foot).
- **Velocity of Propagation:** Typically 83%.
- **Frequency Range:** Sweep tested up to 3 GHz (3000 MHz).
- **Voltage Rating:** 300 Volt RMS (UL).
- **Temperature Rating:** Operating range of approximately -40°C to 80°C (-40°F to 176°F).

Attenuation (Signal Loss)

Attenuation is a key performance metric, measured in dB per 100 feet at various frequencies.

Frequency (MHz)	Attenuation (dB/100 ft)
50	1.48
100	2.01
400	4.23
1000	7.45
2200	11.54
3000	13.07