800-828-9473 | www.awcwire.com

ALLIED WIRE & CABLE
101 Kestrel Drive | Collegeville, PA 19426 | awcwire.com

RG 400 Coaxial Cable

RG 400 is a high temperature coaxial cable that is used in a wide variety of military and commercial applications. With a high temperature maximum in line with other coax cables like RG142, this assists with installations in heat sensitive environments.

RG 400 Coaxial Cable Construction

Inner Cond:	Silver Covered Copper
Dielectric:	Solid Polytetrafluoroethylene (PTFE)
Outer Cond:	Silver Covered Copper Shield (x2)
Jacket:	Fluorinated Ethylene Propylene (FEP) Type IX per MIL-C-17

RG 400 Coaxial Cable Additional Specifications

Weight:	50 lb/ft
Bend Radius:	1.0"
Operating Temperature:	-55°C to +200°C

RG 400 Coaxial Cable Electrical Specifications

Capacitance:	29.4 pF/ft
Impedance:	50 +/- 2 ohms
Maximum Frequency:	12.4 GHz
Maximum Voltage:	1900 VOlts

RG 393 Loss Attenuation Specifications and Power Handling by Frequency

Frequency (MHz)	Attenuation (db/100ft)
100	4.5
400	10.5
1000	18.1
2400	30.2
5000	52.1
10000	78.0

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RG 393 Coaxial Cable Mechanical Specifications

Inner Conductor:

Material:	Silver Covered Copper
Diameter, in:	0.0384

Dielectric:

Material:	Solid PTFE
Diameter, in:	0.116

Outer Conductor:

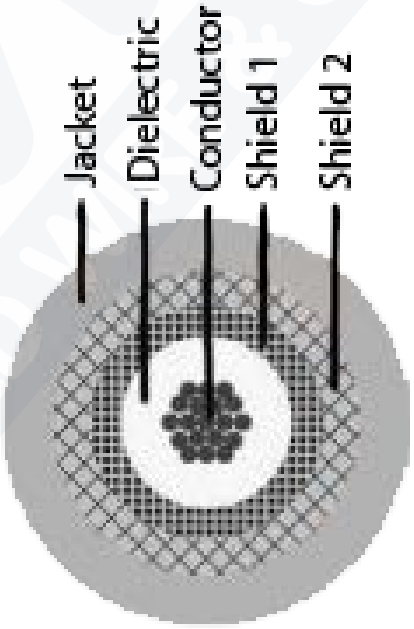
Material 1:	Silver Covered Copper
Material 2:	Silver Covered Copper
Diameter, in:	0.156

Jacket:

Material:	Fluorinated Ethylene Propylene Type IX per MIL-C-17
Diameter, in:	0.195

RG 400 Coaxial Cable Use in the Military

The United States Military uses the M17/128-RG400, a military part number that is equivalent to the RG400 cable. The testing of military coax cables, including RG400 are very rigorous and the specifications even more so. Manufacturers are required to test attenuation and structural return loss by sweeping 22 different 50-ohm cables over the frequency band for which their use is recommended. Among other tests for stability, you can see why the RG400 cable is of high quality for tactical operations and aerospace technology.


Jacket
Dielectric
Conductor
Shield 1
Shield 2