

RG 316 coaxial cable can be used in direct burial, radio frequency and telecommunications applications. It is often used for the transmission of radio frequency signals and can also be used in wireless communication, broadcast and military equipment. Another use for RG 316 coax is in high frequency interconnections between PCB and telecommunications equipment. It is a good choice for applications like these that require good performance and stability in high temperature environments and superior phase stability, or for applications in demanding environments or with minimal installation space. RG 316 is a high performance coaxial cable that is in accordance with MIL-DTL-17 specifications and has a corresponding part number, M17/113-RG316.

## RG 316 Coaxial Cable Construction

<b>Inner Cond:</b>	Silver Covered Copper Clad Steel
<b>Dielectric:</b>	Extruded Solid Polytetrafluoroethylene (PTFE)
<b>Outer Cond:</b>	Silver Covered Copper
<b>Jacket:</b>	Fluorinated Ethylene Copper (FEP) Type IX per MIL-C-17

## RG 316 Coaxial Cable Additional Specifications

<b>Weight:</b>	12.2 lb/ft
<b>Operating Temperature:</b>	-55°C to 200°C

## RG 316 Coaxial Cable Electrical Specifications

<b>Capacitance:</b>	29.4 pF/ft
<b>Impedance:</b>	50 +/- 2 ohms
<b>Maximum Operating Voltage:</b>	1200 Volts
<b>Velocity of Propagation:</b>	69.5%

## RG 223 Loss Attenuation Specifications and Power Handling by Frequency

Frequency (MHz)	Attenuation (db/100ft)	Power (watts)
10	2.5	1869
30	4.3	1072
50	5.6	827
100	8	580
400	16	282
1000	26	173
1500	32	138
2000	38	118
2500	42	104
3000	47	93
k1	0.787	-
k2	0.00120	-

The RG316 loss chart gives common frequency and loss characteristics. RG316 attenuation is lower than other options in this category due to the large size of its conductor.

RG316, like RG393 and many other Mil Spec coaxial cables, has excellent power handling capabilities due to the high thermal conductivity.

