

**RoHS  
Compliant**



## Description

This RG316 coaxial cable, has a silver plated copper clad steel conductor, PTFE insulation and silver plated copper braid and FEP sheath. It is used in radio frequency applications, wireless communication and broadcast equipment, or where an extreme range of temperature is expected. It is meeting MIL-DTL-17 standard.

## Cable Construction

Conductor Material	: Silver plated copper clad steel
Conductor Construction	: 7/0.175mm
Insulation Material	: PTFE
Insulation O.D.	: 1.53mm
Braid Material	: Silver plated copper
Braid Diameter	: 1.95mm
Sheath Material	: FEP
Sheath External O.D.	: 2.5mm
Sheath Colour	: Brown

## Characteristics at 20°C

Nominal Capacitance	: 95pF/m
Impedance	: 50Ω ±2Ω
Velocity Ratio	: 70%
Voltage with Stand	: 0.5 (1min) (AC)/kVrms
Shielding Effect(dB)	: >60 (0-1G)

## Mechanical Characteristics

Min. Bending Radius; Static	: 15mm
Operating Temperature	: -65°C to +150°C

## Attenuation at 20°C and Sea Level, Power

Frequency (GHz)	Nominal Attenuation (dB/m)	Power (Watts CW)
0.1	0.29	420
0.4	0.58	210
0.9	0.88	140
1.0	0.93	135
1.8	1.27	100

Frequency (GHz)	Nominal Attenuation (dB/m)	Power (Watts CW)
2.4	1.46	78
3.0	1.65	72
5.0	2.14	61
6.0	2.34	52

## Part Number Table

Description	Part Number
Coaxial Cable, RG316, 50Ω, Brown, 100m	PELB0438

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