

**Part No:** 390316  
**Description:** RG316 /U 50 Ohm RG Coaxial FEP



### Construction

Conductor Material : Silver Plated Copper Clad Steel (SPCCS)  
 Stranding : 7 x 0.17mm  
 Dielectric : Polytetrafluoroethylene (PTFE)  
 Diameter of Dielectric : 1.52mm  
 Screen Material : Silver Plated Copper Wire Braid  
 Coverage : 95%  
 Outer Sheath Material : Fluorinated Ethylene Propylene (FEP)  
 Outer Sheath Colour : Tan

### Electrical Characteristics

Impedance : 50  $\Omega$   
 Capacitance : 95 pF /m  
 Velocity of Propagation : 69.5 %  
 Conductor Resistance : < 277.2  $\Omega$  /km  
 Screen Resistance : < 20.0  $\Omega$  /km  
 Maximum Operating Frequency : 3000 MHz  
 Maximum Operating Voltage : 1200 V  
 Voltage Withstand : 2000 V  
 Spark Test : 2000 V

### Attenuation

Frequency (MHz)	Attenuation (dB/100m)	Frequency (MHz)	Attenuation (dB/100m)
50	18.4	700	74.8
100	27.2	900	86.3
200	36.1	1000	93.8
400	54.8	3000	179.8

### Physical Characteristics

Overall Diameter : 2.5mm  
 Min. Bend Radius : 10 x OD  
 Temperature Rating : -55°C to +200°C  
 Weight : 15 kg/km

### Standards

RoHS2 Compliant : Yes