

## RG316

High performance 50ohm flexible coaxial cable

Ver A/0 Release Date Match, 2018



P/N: 3316

### Features&Benefits

- 70%Vp PTFE+ Single TPC Wire Braiding
- Low loss, Flexible, Low Cost
- Equivalent to
- Replace to



### Construction Specification

	Description	Size (mm)	Tol.	Materials
1	Center conductor	0.525(7*0.175)	±0.01	Silver Plated Copper
2	Dielectric	1.53	±0.05	Extruded PTFE
3	Outer conductor	1.95	±0.05	Silver Plated Copper Shield
4	Jacket	2.50	±0.15	Fluorinated Ethylene Propylene(FEP) Brown or Transparent Color

### Mechanical&Environmental Specifications

### RoHS

Bend Radius:installation (mm)	13	RoHS	Compliant
Bend Radius:repeated (mm)	25		
Weight (g/m)	17 max.		
Temp, Operating&Installation (°C)	-55~200(FEP)		
Temp, Storage (°C)	-55~200(FEP)		

### Electrical Specifications

Characteristic Impedance(ohm)	50±2	Time delay	4.7
Capacitance(pF/m)	106	Max Working Power(Vrms)	2000
Velocity ratio(%)	70	VSWR(DC~6GHz)	≤1.20
Cutoff frequency(GHz)	65	Shielding Effect(dB @1GHz)	> 60

### Attenuation (Typical@25°C&VSWR=1.0) &Power (VSWR=1.0;40°C;Sea Level)

Frequency MHz	100	400	900	1000	1800	2400	3000	5000	6000
dB/100 m	29.0	58.0	88.0	93.0	127.0	146.0	165.0	214.0	234.0
Avg.Power kW	0.420	0.210	0.140	0.135	0.100	0.078	0.072	0.061	0.052

Maximum attenuation is 10% higher.

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