

## RG178

High performance 50ohm flexible coaxial cable

Ver A/0 Release Date Match, 2018



P/N: 3178

### 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	0.306(7*0.102)	±0.01	Silver Plated Copper
2	Dielectric	0.86	±0.05	Extruded PTFE
3	Outer conductor	1.30	±0.05	Silver Plated Copper Shield
4	Jacket	1.83	±0.15	Fluorinated Ethylene Propylene(FEP) Brown or Transparent Color

### Mechanical&Environmental Specifications

### RoHS

Bend Radius:installation (mm)	10	RoHS	Compliant
Bend Radius:repeated (mm)	18		
Weight (g/m)	8 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)	98	Max Working Power(Vrms)	1500
Velocity ratio(%)	70	VSWR(DC~6GHz)	≤1.25
Cutoff frequency(GHz)	114	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	58.0	105.0	158.0	168.0	224.0	259.0	291.0	376.0	413.0
Avg.Power kW	0.225	0.115	0.072	0.068	0.047	0.040	0.034	0.026	0.023

Maximum attenuation is 10% higher.

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