

# RF Connectors

## SMA Connector Series

### Electrical Specifications

Impedance: 50  $\Omega$   
Frequency Range  
Semi-rigid cable: 0-18 GHz  
Flexible cables: 0-12.4 GHz  
Voltage Rating : 335 volts rms.  
Dielectric Withstanding Voltage : 500 volts rms.  
VSWR :  
1.15 +0 .02 f (GHz) for Straight connector typical  
1.25 +0 .025 f (GHz) for Right angle connector typical  
Contact Resistance  
Center contact: 2.0 m $\Omega$   
Body: 2.0 m $\Omega$   
Insulation Resistance: 5,000 M $\Omega$

### Mechanical Specifications

Mating: 1/4"-36 UNS thread coupling  
Cable retention: 6kgf typical  
Durability: 500 Cycles Min.  
Coupling nut retention: 18kgf Min.  
Temperature Range: - 55°C to +155°C

### Material

Connector body: Brass per QQ-B-626 ,gold Plating or nickel  
Center contact Male: Brass, gold Plating  
Center contact Female: Beryllium copper, gold Plating  
Insulator: PTFE  
Gasket: Silicone rubber  
Crimp Ferrule: Annealed copper

