

**Materials :**

Connector part	Material	Finish
Bodies	Brass	Nickel or Gold
Center Contact	Male: Brass Female: Beryllium copper	Gold
Insulator	Teflon	N/A
Crimp ferrule	Anneal copper	Nickel or Gold

Electrical :

Electrical Data	Detail		
Impedance	50 ohm		
Frequency range	0~6 GHz		
Working voltage	RG178/U → 250 volts rms max. RG316/U, semi-rigid → 335 volts rms max.		
Insulation resistance	1,000 megohms min.		
Dielectric withstanding voltage	RG178/U → 750 volts rms max. RG316/U, semi-rigid → 1,000 volts rms max.		
Contact resistance	Center contact: 5.0 milliohm Outer contact: 1.0 milliohm		
VSWR : f (GHz)		Straight	Right angle
	RG-178/U	1.17+0.04f	1.07+0.06f
	RG-316/U, semi-rigid	1.13+0.04f	1.07+0.04f
Insertion loss	0.1 dB max. (straight)		
	0.2 dB max. (right angle)		

Mechanical :

Mechanical Data	Detail
Engagement force	5.6 lbs max.
Disengagement force	3 lbs
Connector durability	500 matings
Cable retention force	RG178/U → 10 lbs min.
	RG316/U → 20 lbs min.
	Semi-rigid → 30 lbs min.

Environmental :

Environmental Data	Detail
Corrosion (Salt spray)	MIL-STD-202 METHOD 101 CONDITION B
Thermal shock	MIL-STD-202 METHOD 107 CONDITION F
Vibration	MIL-STD-202 METHOD 204 CONDITION B
Mechanical shock	MIL-STD-202 METHOD 213 CONDITION B
Temperature range	-65°C to 165°C