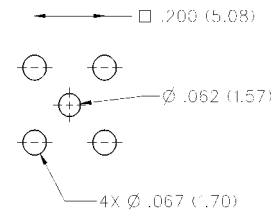
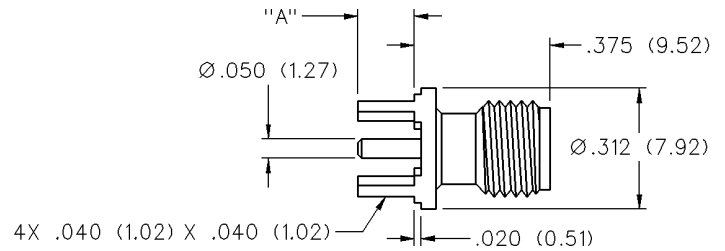


## Straight Jack Receptacle



VSWR & FREQ. RANGE	GOLD PLATED	"A"
VSWR: N/A 0-18 GHz	142-9701-211	.110 (2.79)

## SPECIFICATIONS

### ELECTRICAL RATINGS

**Impedance:** 50 ohms

**Frequency Range:** Flexible cable connectors ..... 0-12.4 GHz  
Uncabled receptacles ..... 0-18.0 GHz

**VSWR:** (f = GHz)      Straight Cabled Connectors      RA Cabled Connectors  
RG-316 ..... 1.15 + .02f      1.15 + .03f  
RG-58 ..... 1.15 + .01f      1.15 + .02f  
Uncabled receptacles ..... N/A

**Working Voltage:** (Vrms maximum)

Connectors for Cable Type	Sea Level	70K Feet
RG-316	250	65
RG-58, uncabled receptacles	335	85

**Dielectric Withstanding Voltage:** (VRMS minimum at sea level)

Connectors for RG-316 ..... 750  
Connectors for RG-58, uncabled receptacles ..... 1000

**Corona Level:** (Volts minimum at 70,000 feet)<sup>1</sup>

Connectors for RG-316 ..... 190  
Connectors for RG-58, uncabled receptacles ..... 250

**Insertion Loss:** (dB maximum)

Straight flexible cable connectors .....  $0.06 \sqrt{f}$  (GHz), tested at 6 GHz  
Right angle flexible cable connectors .....  $0.18 \sqrt{f}$  (GHz), tested at 6 GHz  
Uncabled receptacles ..... N/A

**Insulation Resistance:** 5000 megohms minimum

**Contact Resistance:** (milliohms maximum)

	After	
	Initial	Environmental
Center contact (straight cabled connectors, uncabled receptacles)	3.0	4.0
Center contact (right angle cabled connectors)	4.0	6.0
Outer contact (all connectors)	2.0	N/A
Braid to body	0.5	N/A

**RF Leakage:** (dB minimum, tested at 2.5 GHz)

Flexible cable connectors ..... -60 dB  
Uncabled receptacles ..... N/A

**RF High Potential Withstanding Voltage:** (Vrms minimum, tested at 4 and 7 MHz)<sup>2</sup>

Connectors for RG-316 ..... 500  
Connectors for RG-58, uncabled receptacles ..... 670

### MECHANICAL RATINGS

**Engagement Design:** MIL-STD-348, Series SMA

**Engagement/Disengagement Force:** 2 inch-pounds maximum

**Mating Torque:** 7 to 10 inch-pounds

**Coupling Proof Torque:** 15 inch-pounds minimum

**Coupling Nut Retention:** 60 pounds minimum

**Contact Retention:** 6 lbs. minimum axial force (captivated contacts)

4 inch-ounce minimum torque (uncabled receptacles)

**Cable Retention:**

	Axial Force*(lbs)	Torque (in-oz)
Connectors for RG-316	20	N/A
Connectors for RG-58	40	N/A

\*Or cable breaking strength whichever is less.

**Durability:** 500 cycles minimum

**ENVIRONMENTAL RATINGS** (Meets or exceed the applicable paragraph of MIL-C-39012)

**Temperature Range:** - 65°C to + 165°C

**Thermal Shock:** MIL-STD-202, Method 107, Condition B

**Corrosion:** MIL-STD-202, Method 101, Condition B

**Shock:** MIL-STD-202, Method 213, Condition I

**Vibration:** MIL-STD-202, Method 204, Condition D

**Moisture Resistance:** MIL-STD-202, Method 106