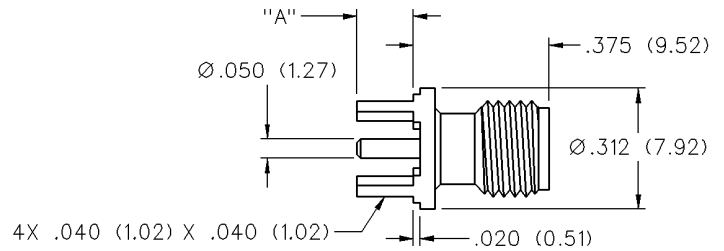
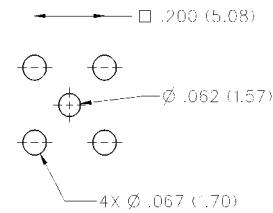


## Straight Jack Receptacle



VSWR & FREQ. RANGE	GOLD PLATED	"A"
VSWR: N/A 0-18 GHz	142-9701-201	.155 (3.94)



## 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>2</sup>  
Connectors for RG-316 ..... 190  
Connectors for RG-58, uncabled receptacles ..... 250

**Insertion Loss:** (dB maximum)  
Straight flexible cable connectors .....  $0.06 \sqrt{f(\text{GHz})}$ , tested at 6 GHz  
Right angle flexible cable connectors .....  $0.15 \sqrt{f(\text{GHz})}$ , tested at 6 GHz  
Uncabled receptacles ..... N/A

**Insulation Resistance:** 5000 megohms minimum

	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

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