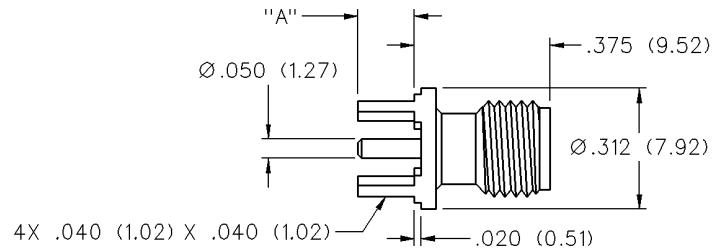


## Straight Jack Receptacle



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

**Contact Resistance:** (milliohms maximum)

	Initial	After 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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