

**Ratings**

Voltage: 20 Vdc  
Current: 10 A

**Operating Temperature Range**

-25 to 70°C, relative humidity of 85% or less

**Materials**

- ① Insulator: Nylon, black
- ② Pin: C3604 brass, 1 μm nickel plated
- ③ Shell: C3604 brass, 1 μm nickel plated
- ④ Spring contact: C5191 phosphor bronze, 1 μm nickel plated

**Electrical Requirements**

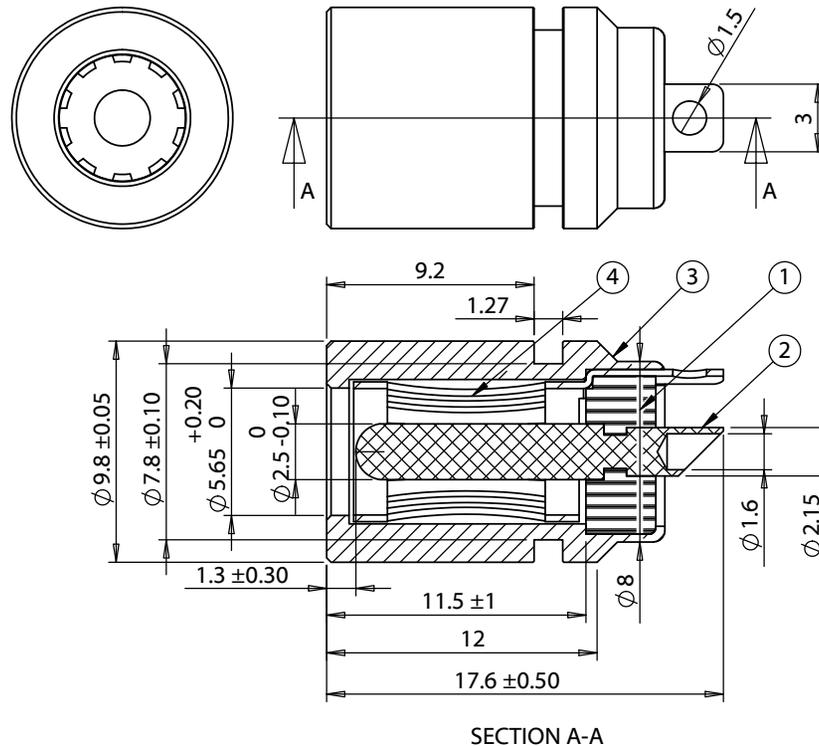
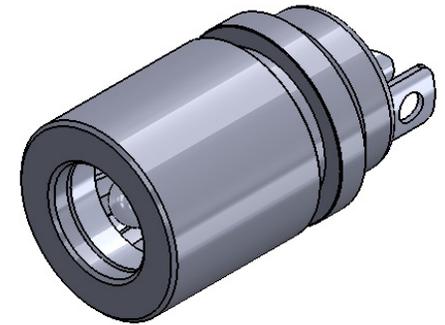
Dielectric strength: 1 min @ 500 Vac  
Insulation resistance: 100 MΩ @ 500 Vdc  
Contact resistance: 30 mΩ or less

**Mechanical Requirements**

Insertion force: 0.3-3 kgf  
Withdrawal force: 0.3-3 kgf  
Life cycle: 5000 mating cycles while maintaining 0.3 kgf min. insertion force, 0.2 kgf min. withdrawal force and less than 100 mΩ contact resistance.

**Environmental Requirements**

Cold test: -25 ±3 °C for 48 hours without deformation  
Heat test: 70 °C, relative humidity 70-85% for 96 hours without deformation  
Contact resistance: 100 mΩ or less  
Insulation resistance: 50 MΩ @ 500 Vdc 1 min  
Humidity test: 40 °C, relative humidity 90-100% for 96 hours  
Dielectric strength: 1 min @ 500 Vac  
Insulation resistance: 50 MΩ @ 500 Vdc 1 min  
Contact resistance: 100 mΩ or less  
Salt spray test: 35±2 °C, relative humidity 90-95%, 5% NaCl mist for 24 hrs. Wash parts after test. Maintain mechanical requirements and a contact resistance of less than 80 mΩ.



Revision:	Date:	Description:	Prepared:	Notes:	<b>TENSILITY</b> tel 1.541.323.3228 800 877.670.7118 fax 1.541.323.4202 web tensility.com	
A	3/24/2016	initial release		RoHS and REACH compliant		
A1	3/25/2016	Revise groove location	Verified:	Function test: no open, no short circuit, no intermittent	Size: Part number: A 50-00534	
A2	4/11/2016	Modified specs	Dimensions are in millimeters. Tolerances: X: ± 0.5 mm X.X: ± 0.3 mm X.XX: ± 0.05 mm	Description: Connector, dc jack, 5.5x2.5xL17.6 mm, molding style, spring contacts. solder tab		
					Scale: 3:1	
						Sheet 1 of 1