## 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 m $\Omega$  or less

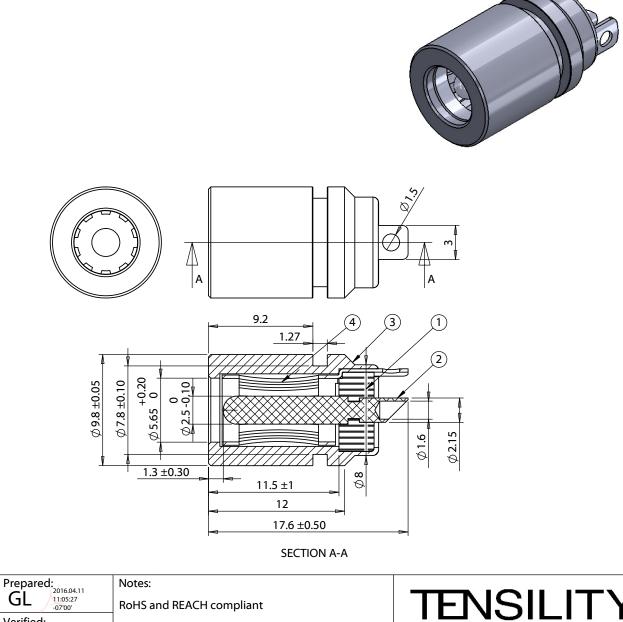
#### Mechanical Requirements

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 m $\Omega$  contact resistance.

Date:

Revision:

- **Environmental Requirements** Cold test: -25  $\pm$ 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 mQ 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 m $\Omega$ .



JSILITY GL А 3/24/2016 initial release Verified: Function test: no open, no short circuit, no A1 3/25/2016 **Revise groove location** tel 1.541.323.3228 800 877.670.7118 LA DN cn=LA, o=Tendi cu=Engineering exall=Q400239Teni rs, c=US intermittent fax 1.541.323.4202 web tensility.com A2 4/11/2016 Modified specs Dimensions are in millimeters. Size: Part number: Description: Tolerances: Connector, dc jack, 5.5x2.5xL17.6 mm, molding 50-00534 А ± 0.5 mm Х: style, spring contacts. solder tab X.X: ± 0.3 mm Scale: 3:1 OSheet 1 of 1 X.XX: ± 0.05 mm 2

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Description:

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