## Materials

- 1. Insulator: Nylon PA46, black
- 2. Pin: C5191 phosphor bronze, nickel plated
- 3. Shell: C3604 brass, nickel plated
- 4. Terminal: C2680 brass, nickel plated

## **Electrical Requirements**

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

## Mechanical Requirements

Insertion force: 0.3-3 kgf Withdrawal force: 0.3-3 kgf Life cycle: 5000 mating cycles while maintaining 0.3-2.0 kgf min. insertion force, 0.2-1.5 kgf min. withdrawal force and less than 100 m $\Omega$  contact resistance.

## **Environmental Requirements**

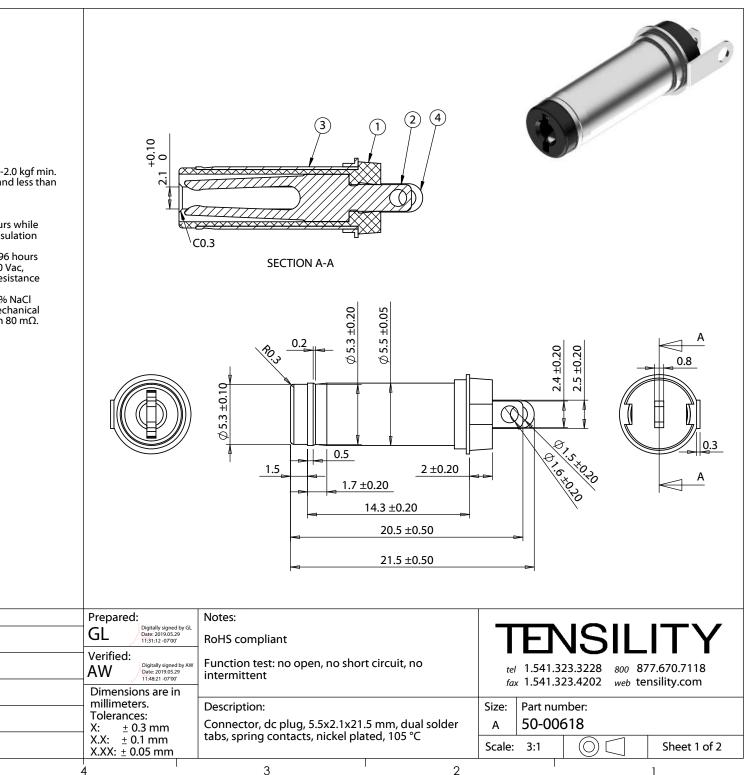
Date:

4/17/2019

Revision:

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- Heat test: 70 °C, relative humidity 70-85% for 96 hours while maintaining contact resistance:  $100 \text{ m}\Omega$  or less, insulation resistance: 50 m $\Omega$  or less, without deformation Humidity test: 40 °C, relative humidity 90-100% for 96 hours while maintaining dielectric strength: 1 min @ 500 Vac, insulation resistance: 50 M $\Omega$  @ 500 Vdc, contact resistance
- 100 m $\Omega$  or less, without deformation 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 $\Omega$ .



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Description:

Initial release

