# Ratings

Voltage: 48 Vdc Current: 8 A

#### **Operating Temperature Range** -25° to 70° C, relative humidity of 85% or less

#### Materials

- 1. Insulator: PBT +15% GF, UL 94 HB, black 2. Center pin: C2680 brass, 2 µm nickel plated 3. Shell: C3604 brass, 2 µm nickel plated
- 4. Nut: C3604 brass, 2 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 0.3-2 kgf insertion force, 0.2-1.5 kgf withdrawal force and less than 100 m $\Omega$  contact resistance.

## **Environmental Requirements**

Date:

8/16/2010

8/30/2016

11/20/2017

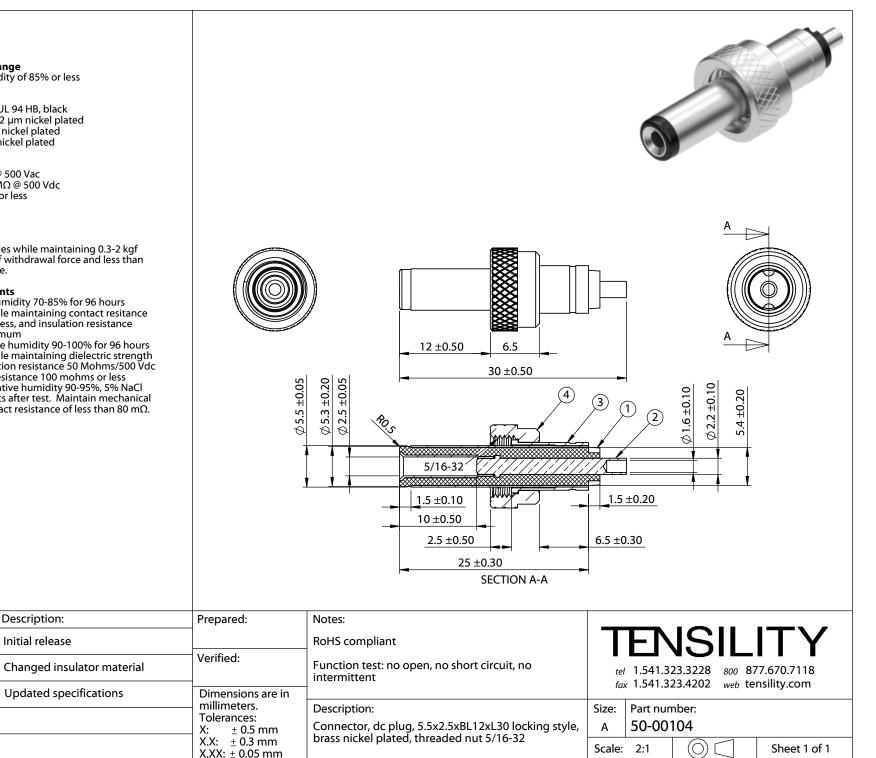
Revision:

А

A1

A2

- Heat test: 70 °C, relative humidity 70-85% for 96 hours without deformation while maintaining contact resitance after test 100 mohms or less, and insulation resistance 50 Mohms/500 Vdc minimum
- Humidity test: 40 °C, relative humidity 90-100% for 96 hours without deformation while maintaining dielectric strength 500 Vac/1 minute, insulation resistance 50 Mohms/500 Vdc minimum, and contact resistance 100 mohms 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 $\Omega$ .



2

3

5

Description:

Initial release

Updated specifications