## Materials

1. Shell, C3604 brass, 2 µm nickel plated 2. Spring contact, BeCu, 2 µm nickel plated 3. Pin, C3604 brass, 2 µm nickel plated 4. Insulator, PBT + 15% GF, black

## **Electrical requirements**

Dielectric strength: 1 min @ 500 Vac Insulation resistance: 100 MΩ @ 500 Vdc Contact resistance: 30 m $\Omega$  or less

## Mechanical requirements

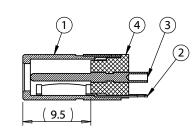
Insertion force: 0.3-2.5 kgf Withdrawal force: 0.3-2.5 kgf Durability: 5000 mating cycles while maintaining; min 0.3 kgf insertion force, min 0.2 kgf withdrawal force and less than 100 mO contact resistance.

## **Environmental requirements**

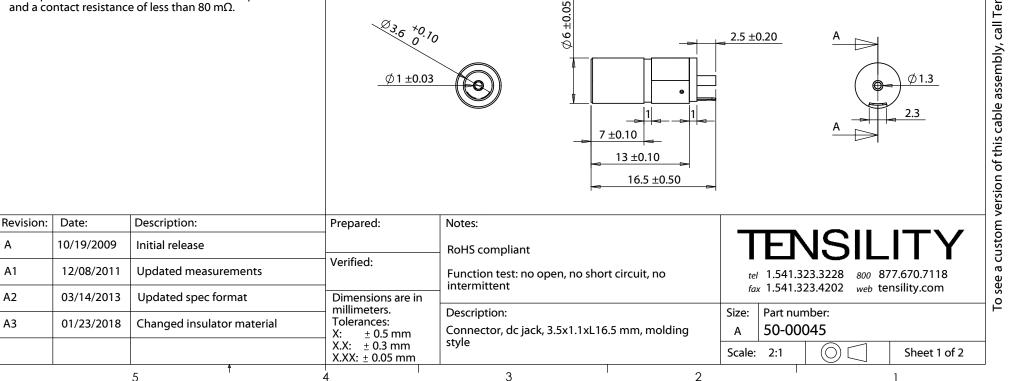
Damp test: 40 °C, RH 90-100% for 96 hrs. Cool to ambient and recover for 2 hours. Maintain dielectric strength of 500 Vac for 1 min, insulation resistance of 50 M $\Omega$  @ 500 Vdc minimum and a contact resistance of 100 m $\Omega$  or less.

Dry test: 70 °C, RH 70-85% for 96 hrs. Cool to ambient and recover for 2 hours. Maintain insulation resistance of 50 MΩ @ 500 Vdc minimum and a contact resistance of 100  $m\Omega$  or less.

Salt spray test: 35 °C, RH 90-95%, 5% NaCl mist for 24 hrs. Wash parts after test. Maintain mechanical requirements and a contact resistance of less than 80 m $\Omega$ .



SECTION A-A



2.5 ±0.20

А

A1

A2

A3

