## Materials

1. Insulator: PBT, black

2. Shell: C3604 brass, 2 µm nickel plated

3. Spring contact: C5191 phosphor bronze, 2 µm nickel plated

## **Electrical Requirements**

Dielectric strength: 1 min @ 500 Vac Insulation resistance: 100 M $\Omega$  @ 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 0.3-2.0 kgf min. insertion force, 0.2-1.5 kgf min. withdrawal force and less than 100 m $\Omega$  contact resistance.

## **Environmental Requirements**

Date:

11/28/2011

11/09/2012

12/06/2012

06/15/2016

Revision:

А

A1

A2

A3

- Heat test: 70 °C, relative humidity 70-85% for 96 hours while maintaining insulation resistance: 50 M $\Omega$  @ 500Vdc, without deformation and contact resistance: 100 m $\Omega$  or less 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, and contact resistance: 100 m $\Omega$  or less
- Salt spray test: 35 °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.



5

Description:

Initial release

Added test data

Updated item description

Modified insulator OD

