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 Ω or less Rated voltage: 48 Vdc Rated current: 5 A

Mechanical requirements

Insertion force: 0.3-2.5 kaf 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 m Ω 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 Ω @ 500 Vdc minimum and a contact resistance of 100 m Ω 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 $M\Omega @ 500$ 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 Ω .

Description:

Initial release

Updated spec format

Changed insulator material

standards

Operating range

Date:

10/19/2009

12/8/2011

3/14/2013

1/23/2018

Revision:

А

A1

A2

A3

-25 to 70 °C, relative humidity of 85% or less



2

3

5