

Ratings

Voltage: 48 Vdc
Current: 5 A

Operating Temperature Range

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

Materials

- ① Insulator: PBT+15% GF, black
- ② Shell: C2700 brass, 2 μm nickel plated
- ③ Center contact: C2680 brass, 2 μm nickel plated

Electrical Requirements

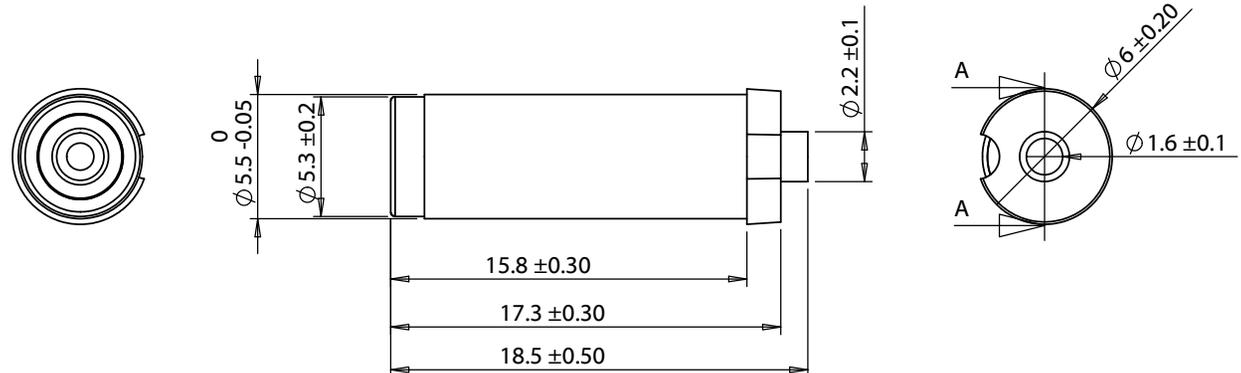
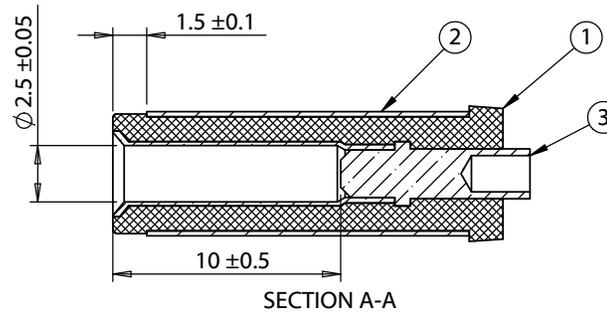
Dielectric strength: 1 min @ 500 Vac
Insulation resistance: 100 MΩ @ 500 Vdc
Contact resistance: 30 mΩ or less

Mechanical Requirements

Insertion force: 0.5-2.5 kgf
Withdrawal force: 0.3-2 kgf
Life cycle: 5000 mating cycles while maintaining 0.4 kgf min. insertion force, 0.2 kgf min. withdrawal force and less than 100 mΩ contact resistance.

Environmental Requirements

Cold test: -25 ±3 °C for 48 hours without deformation
Heat test: 70 °C, relative humidity 70-85% for 96 hours without deformation
Humidity test: 40 °C, relative humidity 90-100% for 96 hours without deformation
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.



Revision:	Date:	Description:
A	11/28/2011	Initial release
A1	07/31/2012	Updated connector length
A2	05/13/2019	Updated insulator material

Prepared:

Verified:

Dimensions are in millimeters.
Tolerances:
X: ± 0.3 mm
X.X: ± 0.1 mm
X.XX: ± 0.05 mm

Notes:

RoHS compliant

Function test: no open, no short circuit, no intermittent

Description:
Connector, dc plug, 5.5x2.5xL18.5 mm, brass nickel plated

TENSILITY

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Size: Part number:
A 50-00128

Scale: 3:1

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