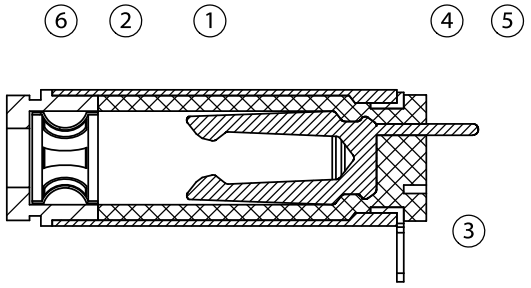
Operating Temperature Range
-25° to 70° C, relative humidity of 85% or less

Materials
1. Shell: C2700 brass, 2µm nickel plated
2. Spring contact: C5191 phosphor bronze, 2µm nickel plated
3. Solder tab: C2680 brass, 2µm nickel plated
4. Insulator: PBT + 15% GF, black
5. Spring fork: C5191 phosphor bronze, 0.5µ" gold plated
6. Top head: C3604 brass, 2µm nickel plated

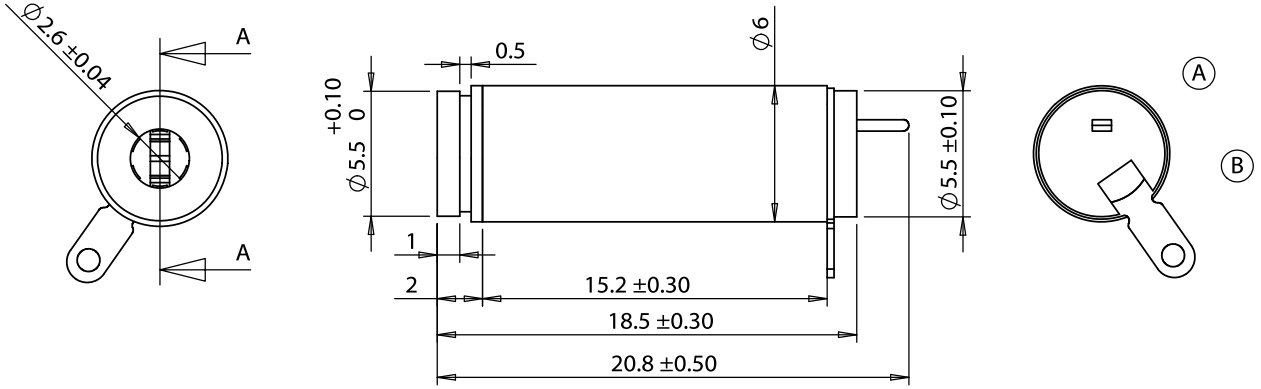
Electrical Requirements
Dielectric strength: 1 min @ 500 Vac
Insulation resistance: 100 MΩ @ 500 Vdc
Contact resistance: 50 mΩ or less

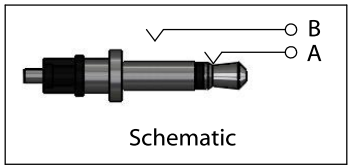
Mechanical Requirements
Insertion force: 0.4-4 kgf
Withdrawal force: 0.4-4 kgf
Life cycle: 5000 mating cycles while maintaining 0.3 kgf min. insertion force, 0.3 kgf min. withdrawal force and less than 100 mΩ contact resistance.

Environmental Requirements
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±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 mΩ.



SECTION A-A
SCALE 3 : 1





Schematic

Revision:	Date:	Description:
A	9/4/2009	Initial release

Prepared: RS Digitally signed by RS Date: 2018.05.11 10:04:04 -07'00'

Verified: AW Digitally signed by AW Date: 2018.05.11 12:04:06 -07'00'

Dimensions are in millimeters.
Tolerances:
X: ± 0.5 mm
X.X: ± 0.3 mm
X.XX: ± 0.05 mm

Notes:
RoHS compliant
Function test: no open, no short circuit, no intermittent

Description:
Connector, mono jack, 2.5x6.0xL20.8 mm, brass, nickel plated, molding style

TENSILITY
tel 1.541.323.3228 800 877.670.7118
fax 1.541.323.4202 web tensility.com

Size: A
Part number: 50-00033
Scale: 5:1
Sheet 1 of 1

5 4 3 2 1