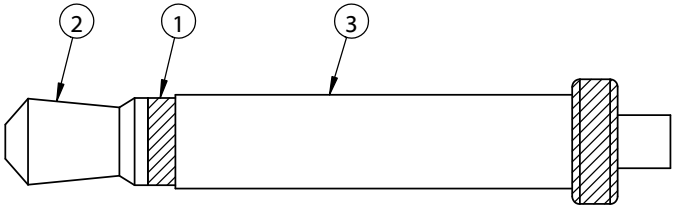
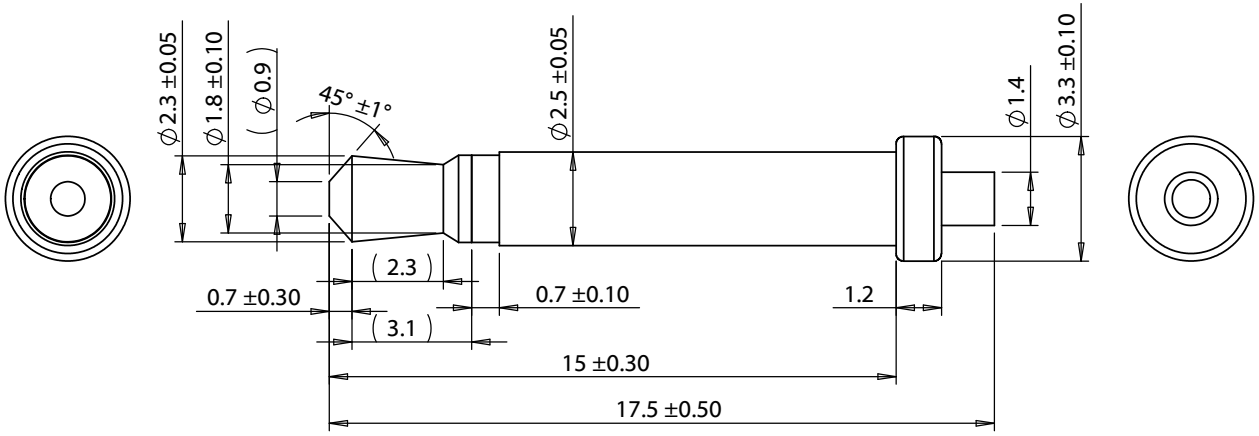
Materials
1. Insulator: ABS, black
2. Pin: C3604 brass, 2 µm nickel plated
3. Shell: C3604 brass, 2 µm nickel plated

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

Mechanical Requirements
Insertion force: 0.3-3 kgf
Withdrawal force: 0.3-3 kgf
Life cycle: 5000 mating cycles while maintaining 0.3 kgf min. insertion force, 0.2 kgf min. withdrawal force and less than 100 mΩ contact resistance.
Bending strength: ≥ 3.2 kg
Breaking strength: ≥ 6.8 kg

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	1/4/2012	Initial release
A1	5/9/2014	Updated part
A2	2/16/2016	Updated connector dimensioning
A3	2/17/2017	Corrected connector dimensioning

Prepared: GL Digitally signed by GL Date: 2017.02.17 10:18:24 -08'00'

Verified: PS Digitally signed by PS Date: 2017.02.17 10:34:44 -08'00'

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

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

Description:
Connector, mono plug 2.5xL17.5 mm, brass nickel plated

TENSILITY
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Size: A
Part number: 50-00132
Scale: 5:1
Sheet 1 of 1

5 4 3 2 1