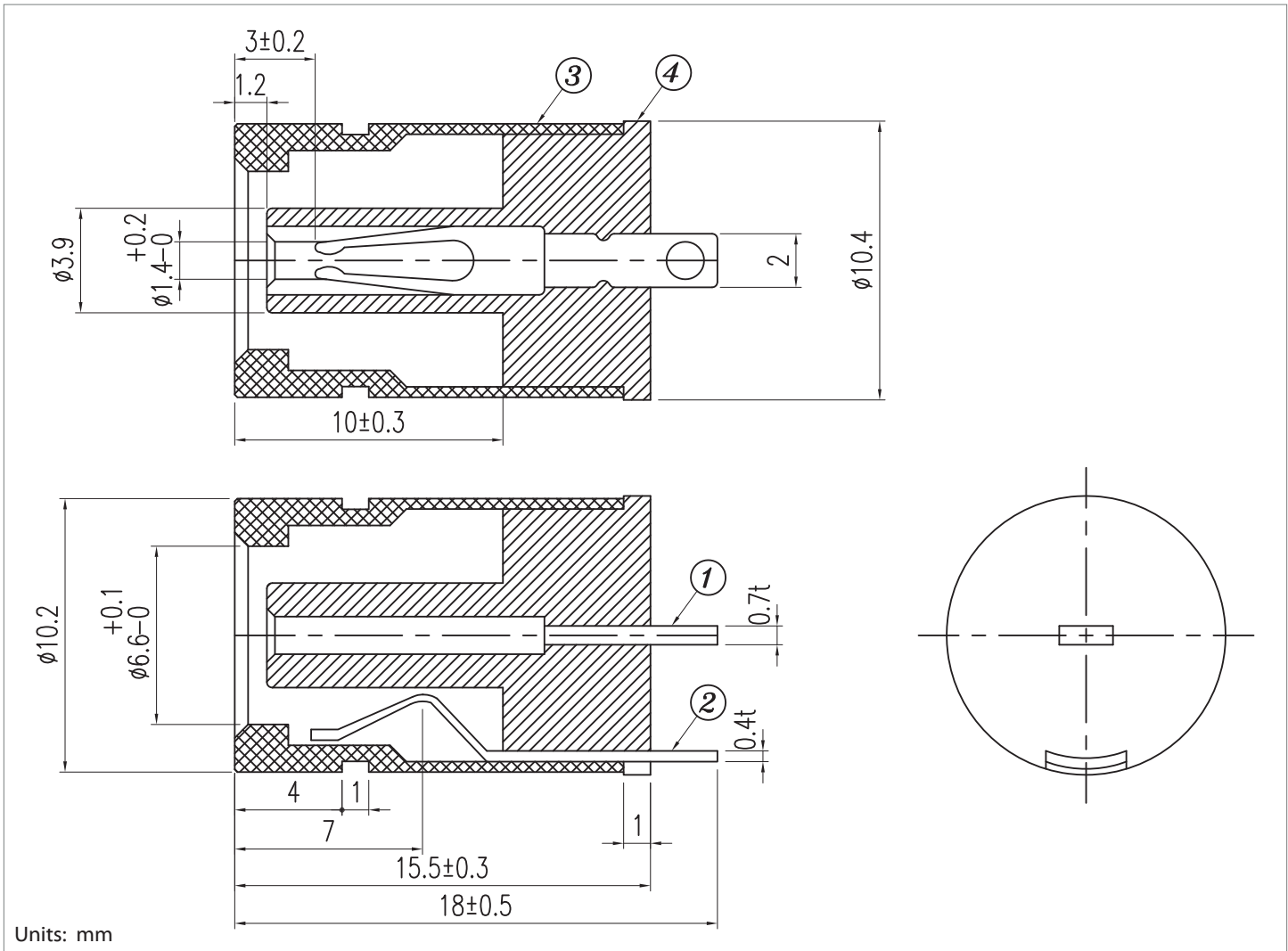


Materials:

| | |
|---|------------------------------------|
| 1 | P-bronze, nickel-plated, 2 µm min. |
| 2 | P-bronze, nickel-plated, 2 µm min. |
| 3 | brass, nickel-plated, 2 µm min. |
| 4 | PBT, black |

Notes:

RoHS compliant

Mechanical drawing:

tolerance X: ± 0.5 mm .X: ± 0.3 mm .XX: ± 0.05 mm
applicable unless otherwise indicated in specification or on drawings

Initial

Date

Materials:

| | |
|--------------------|----------------|
| insulator material | PBT, black |
| center pin | P-bronze C5191 |
| terminal | P-bronze C5191 |
| outer sleeve | brass C3604 |

Electrical:

| | |
|-----------------------|-------------------------------------|
| dielectric strength | 500 Vac @ 1 minute |
| insulation resistance | 500 Vdc/100 MΩ |
| contact resistance | 30 mΩ or less between plug and jack |
| rated voltage | 20 Vdc |
| rated current | 8 A |

Mechanical:

| | |
|------------------|---|
| insertion force | 0.3~3 kgf when mating with a standard plug |
| withdrawal force | 0.3~3 kgf when mating with a standard plug |
| durability | meets specifications below after 5000 cycles: insertion force: 0.3 kgf min.; withdrawal force: 0.2 kgf min.; contact resistance: 100 mΩ or less between plug and jack |

Environmental tests

damp test:

| | |
|-----------------|--|
| test conditions | 40 °C, relative humidity 90-100%, 96 hours then cool to ambient, 2 hours at ambient conditions |
| requirements | dielectric strength: 500 Vac at 1 minute; insulation resistance: 500 Vdc / 50 MΩ min.; contact resistance: 100 mΩ max. |

dry test:

| | |
|-----------------|---|
| test conditions | 70 °C, relative humidity 70-85%, 96 hours then cool to ambient, 2 hours at ambient conditions |
| requirements | no deformation; insulation resistance: 500 Vdc / 50 MΩ min.; contact resistance: 100 mΩ max. |

salt spray test:

| | |
|-----------------|---|
| test conditions | 5% NaCl salt mist, 35 ±2 °C, relative humidity 90-95%, 24 hours; parts washed after testing |
| requirements | electrical and mechanical specifications above are met; contact resistance: 80 mΩ max. |

Operating range:

| | |
|-------------------|-----------------|
| temperature | -25 °C to 70 °C |
| relative humidity | 85% or less |

Revision notes:

| Rev | Date | Description |
|-----|------------------|--|
| A | October 19, 2009 | initial release |
| A1 | August 31, 2012 | updated to show materials for numbers one and two on drawing |
| A2 | October 12, 2012 | included additional electrical/mechanical specifications |
| A3 | October 15, 2012 | updated drawing |
| | | |

Specification Approval

Spec sign-off verifies that you have reviewed the entire specification, tested a sample of the product, and confirm that it meets your requirements. This specification reflects the part as it will be ordered. Orders will not be processed until the specification pages have been initialed and the approval page has been signed. This specification is confidential and is not to be transmitted without prior approval from Tensility.

Signature _____

Title _____

Name _____

Date _____

Company _____

Branch _____