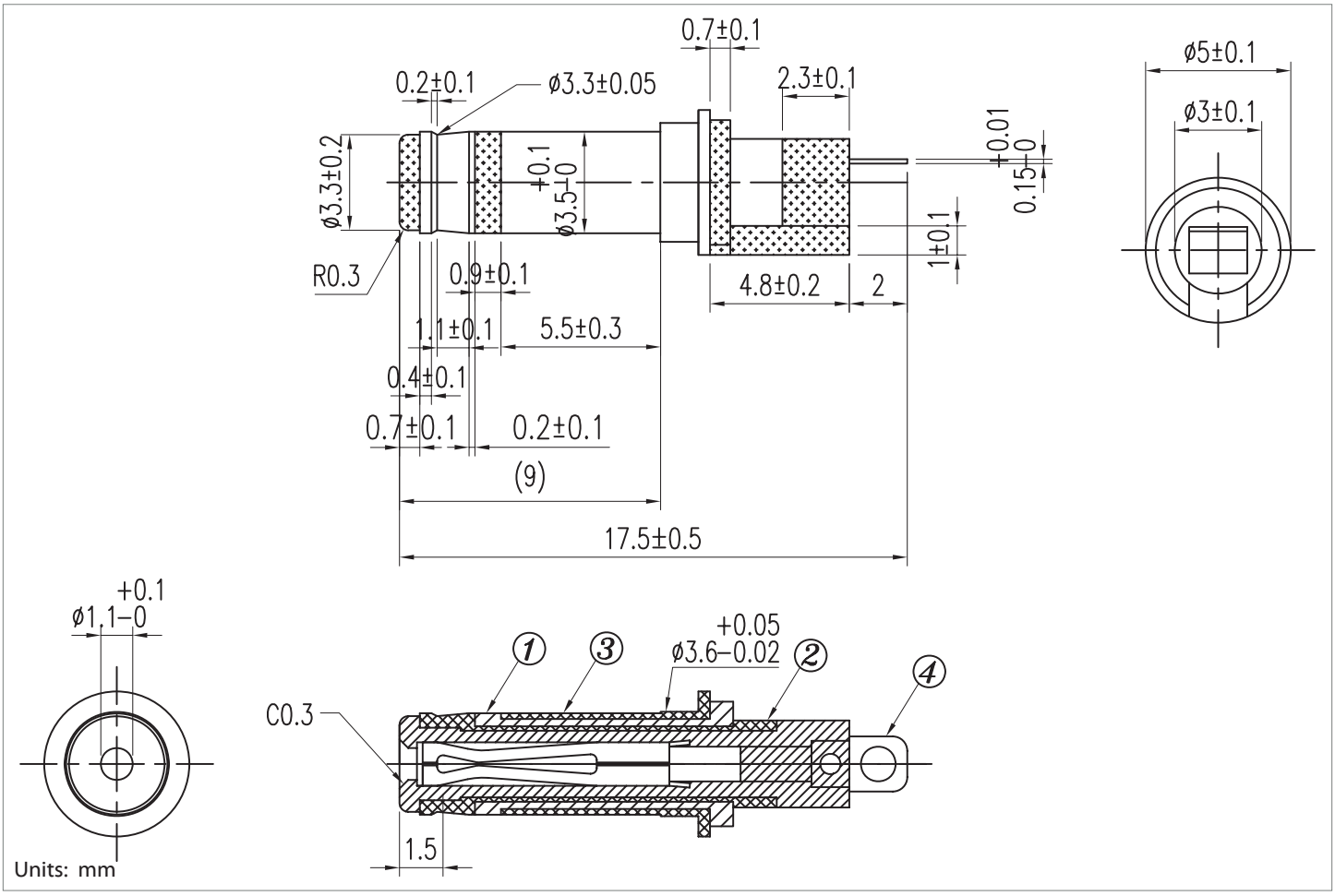
Materials:

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

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	POM, black
center contact (DC in +)	P-bronze C5191
ring (Data)	brass C3604
outer sleeve (DC in -)	brass C3604

Electrical:

dielectric strength	500 VAc/1 minute
insulation resistance	500 Vdc/100 M Ω
contact resistance	30 m Ω or less between plug and jack
rated voltage	24 Vdc
rated current (DC in +)	5A @ 30 °C max. ΔT over ambient
rated current (DC in -)	5A @ 30 °C max. ΔT over ambient
rated current (Data)	1A @ 30 °C max. ΔT over ambient

Mechanical:

insertion force	0.5 ~ 2 kgf when mating with a standard jack
withdrawal force	0.3 ~ 1.5 kgf when mating with a standard jack
durability	mated with a standard jack for 5000 cycles and meets the following: insertion force: 0.4 ~ 2 kgf; withdrawal force: 0.2 ~ 1.5 kgf; contact resistance: 100 m Ω or less between plug and jack

Environmental requirements:

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
humidity	85% or less

Revision notes:

Rev	Date	Description
A	December 4, 2012	initial release

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 _____