Operating Temperature Range

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

Materials

- 1. Tip contact: C5191 phosphor bronze, 2 µm nickel plated
- 2. Ring contact: C5191 phosphor bronze, 2 µm nickel plated
- 3. Ring contact: C5191 phosphor bronze, 1 µ" gold plated
- 4. Sleeve contact: C5191 phosphor bronze, 2 µm nickel plated
- 5. Shell: C2700 brass, 2 µm nickel plated
- 6. Top head: C3604 brass, 2 µm nickel plated
- 7. Insulator: POM, black

Electrical Requirements

Dielectric strength: 1 min @ 500 Vac Insulation resistance: 100 M Ω @ 500 Vdc Contact resistance: 50 m Ω 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 $60 \text{ m}\Omega$ contact resistance.

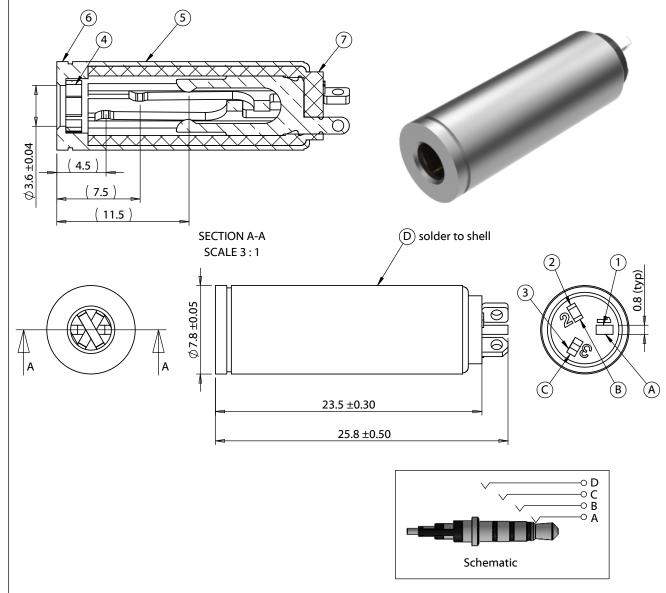
Environmental Requirements

Heat test: 70 °C, relative humidity 70-85% for 96 hours without deformation

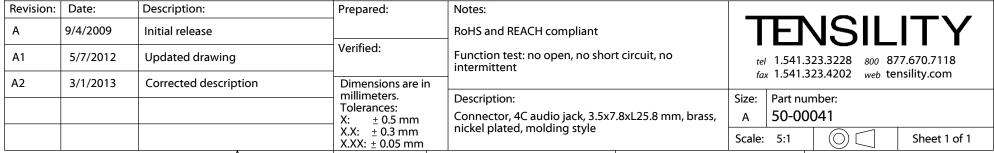
Humidity test: 40 °C, relative humidity 90-100% for 96 hours without deformation

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 $100 \text{ m}\Omega$.

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