

## Operating Temperature Range

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

## Materials

- ① Insulator: POM, black
- ② Sleeve contact: C5191 phosphor bronze, 2 µm nickel plated
- ③ Shell: C3604 brass, 2 µm nickel plated
- ④ Tip contact: C5191 phosphor bronze, 2 µm nickel plated
- ⑤ Ring contact: C5191 phosphor bronze, 2 µm nickel plated

## Electrical Requirements

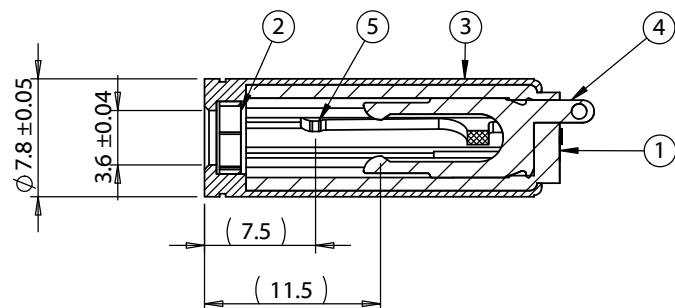
Dielectric strength: 1 min @ 500 Vac  
Insulation resistance: 100 MΩ @ 500 Vdc  
Contact resistance: 50 mΩ or less

## Mechanical Requirements

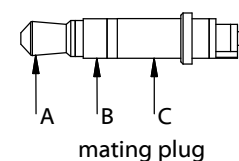
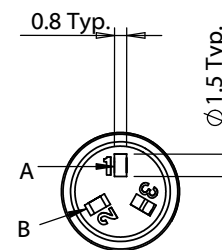
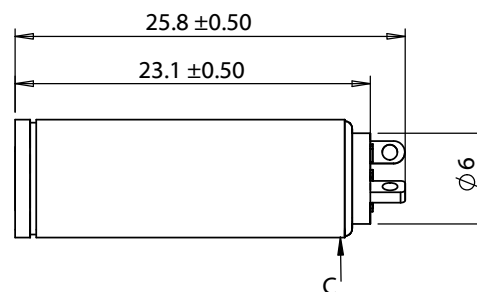
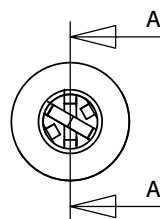
Insertion force: 0.3-4 kgf  
Withdrawal force: 0.3-4 kgf  
Life cycle: 5000 mating cycles while maintaining 0.3 kgf min.  
insertion force, 0.3 kgf min. withdrawal force and less than  
60 mΩ contact resistance.

## 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.



SECTION A-A



mating plug

Revision:	Date:	Description:	Prepared:	Notes:	<h1>TENSILITY</h1> <p>tel 1.541.323.3228 800 877.670.7118 fax 1.541.323.4202 web tensility.com</p>		
A	9/20/2019	Initial release	Verified:	RoHS compliant Function test: no open, no short circuit, no intermittent			
			Dimensions are in millimeters. Tolerances: X: ± 0.3 mm X.X: ± 0.1 mm X.XX: ± 0.05 mm	Description: Connector, stereo jack, 3.5x7.8xL25.8 mm, brass, nickel plated, molding style	Size: A	Part number: 50-00945	Sheet 1 of 1
					Scale: 1:0.2		