# **Operating Temperature Range**

-25~105 °C, relative humidity of 85% or less

### Materials

- 1) Tip: C3604 brass, nickel plated
- (2) Ring: C3604 brass, nickel plated
- (3) Sleeve: C3604 brass, nickel plated
- (4) Insulator: Nylon, black

## **Electrical Requirements**

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

## **Environmental Requirements**

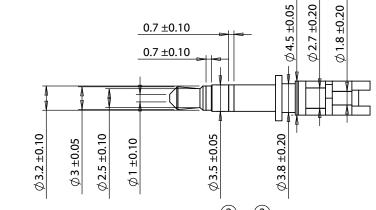
Cold test:  $-25 \pm 3$  °C for 48 hours without deformation Heat test: 105 °C, relative humidity 70-85% for 96 hours without deformation

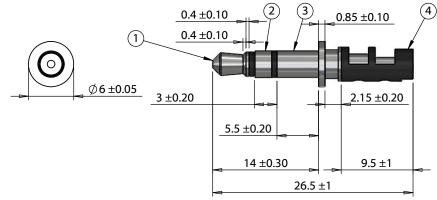
Humidity test: 40  $^{\circ}$ C, relative humidity 90-100% for 96 hours without deformation

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 m $\Omega$ .

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Revision:	Date:	Description:	Prepared:	Notes:			
Α	5/18/2020	Initial release		RoHS compliant	ΙТ	FNSII ITY	
			Verified:  Dimensions are in	Function test: no open, no short circuit, no intermittent	tel 1.541.323.3228 800 877.670.7118 fax 1.541.323.4202 web tensility.com		
			millimeters.	Description:	Size:	Part number:	
			Tolerances: X: ± 0.3 mm X.X: ± 0.1 mm X.XX: + 0.05 mm	Connector, stereo plug, 3.5xL26.5 mm, brass, nickel plated, 105 °C, nylon, molding style	Α	50-00946	
					Scale:	: 2:1 Sheet 1 of 1	

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