#### Materials

Connector: 50-00666
(1) Insulator, PA66, black

- 2 Tip contact, C3604 brass, gold plated
- 3 Ring 1 contact, C3604 brass, gold plated
- 4) Ring 2 contact, C3604 brass, gold plated (5) Sleeve contact, C3604 brass, gold plated
- (6) Tray, C3604 brass, gold plated
- (7) Ground contact, C2680 brass, nickel plated

Inner Sleeve: 56-00002

(8) Inner sleeve, Nylon UL 94V-0

Outer Sleeve: 56-00003

(9) Outer sleeve, TPU, 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**

Durability: 5000 mating cycles while maintaining less than  $50 \text{ m}\Omega$  contact resistance.

### **Environmental requirements**

Humidity test: 40 ±2 °C and humidity between 90 and 98 % for 96 hours without deformation Salt spray test: 35 °C, RH 90-95%, 5% NaCl mist for 24 hrs. Wash parts after test. Maintain mechanical and electrical requirements.

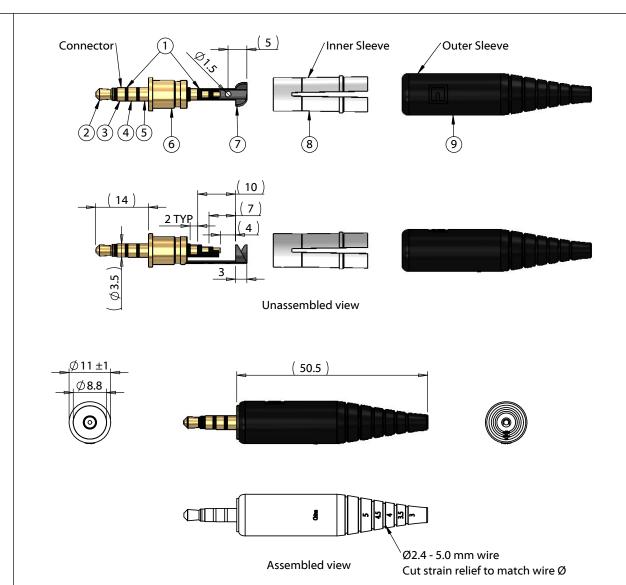
## **Operating range**

-25 to 90°C, relative humidity of 85% or less

## **Packaging Details:**

Item packaged unassembled in sealed PE bag

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Revision:	Date:	Description:	Prepared:	Notes:				
Α	7/7/2020	Initial release		RoHS compliant		$\vdash$	NSIL	ITY
			Verified:  Dimensions are in millimeters. Tolerances: X: ± 0.5 mm	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			
				Description: Connector, 4C audio plug, 3.5xL50.5 mm, brass, gold plated, assembly type	Size: Part number: A 55-00146			
			X.X: ± 0.3 mm X.XX: ± 0.05 mm		Scale:	1:1		Sheet 1 of 1

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