### Ratings

Voltage: 30 Vdc Current: 300 mA

## **Operating Temperature Range**

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

## Materials

- 1. Insulator: nylon, black
- 2. Insulator: nylon, black
- 3. Shell: brass, nickel-plated
- 4. Spring contact: phosphor bronze, nickel-plated 5. Spring contact: phosphor bronze, nickel-plated
- 6. Spring contact: phosphor bronze
- 7. Solder tab: brass, nickel-plated
- 8. Nut: brass, nickel-plated, P/N 56-00004, M9x 0.75
- 9. Split washer: cold rolled steel, nickel-plated, P/N 56-00005

# **Electrical Requirements**

Dielectric strength: 1 min @ 500 Vac Insulation resistance: 100 MΩ @ 500 Vdc Contact resistance:  $50 \text{ m}\Omega$  or less

Mechanical Requirements Insertion force: 0.3-2 kgf Withdrawal force: 0.3-2 kgf

Terminal strength: a static load of 300 gf shall be applied to the terminal for 15 seconds in any direction.

Life cycle: 5000 mating cycles while maintaining less than 100 m $\Omega$  contact resistance, 50M $\Omega$  insulation resistance, and 500 Vac for 1 minute withstand voltage.

# Soldering

Solderability: 75% minimum coverage when terminals dipped 2mm in 235 ±5 °C solder bath for 3 ±0.5 seconds Solder bath durability: no deformation when immersed in 255  $\pm$ 5 °C

up to surface of the board 1.6 mm for 5 seconds or less Solder iron durability: no deformation when exposed to 350 ±10 °C

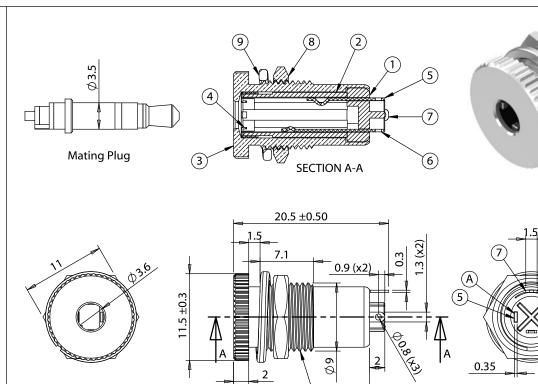
for 3 ±0.5 seconds

## **Environmental Requirements**

Cold test:  $-25 \pm 3$  °C for 48 hours without deformation Heat test:  $85 \pm 2$  °C, relative humidity 45-85% for 48 hours without deformation

Humidity test: 40 ±2 °C, relative humidity 90-98% for 48 hours

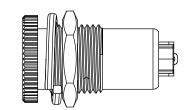
without deformation



## **Installation Details**

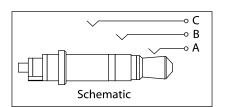
Panel thickness: 1.0 - 4.8 mm

Panel cutout Ø: 9.2 - 10.5 mm



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M9x0.75



Revision:	Date:	Description:	Prepared:	Notes:					
Α	8/8/2017	Initial release	AG Digitally signed by AG Date: 2017.08.08 12:00:35 - 07'00'	RoHS compliant	TFNSII ITY				
			Verified: LA Digitally signed by LA Date: 2017,08,08 14,05:34-0700'  Dimensions are in millimeters.	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:					
			Tolerances: X: ± 0.5 mm	Connector, stereo jack, 3.5x20.5 mm, panel mount, nickel plated, threaded, nut and washer	A 54-00081				
			X.X: ± 0.3 mm X.XX: ± 0.05 mm		Scale:	2:1		Sheet 1 of 1	1

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