**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. Solder tab: brass, nickel-plated
7. Nut: brass, nickel-plated, P/N 56-00004, M9x 0.75
8. 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 mΩ or less

**Mechanical Requirements**
Insertion force: 0.3-2 kgf
Withdrawal force: 0.3-2 kgf
Terminal strength: static load of 300gf shall be applied to the terminal for 15 seconds in any direction.
Life cycle: 5000 mating cycles while maintaining less than 100 mΩ contact resistance, 50MΩ 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 ± 5°C up to surface of the board 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 ± 3°C for 48 hours without deformation
Heat test: 85 ± 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

**Notes:**
- RoHS compliant
- Function test: no open, no short circuit, no intermittent

**Prepared:**
AG

**Verified:**
LA

**Dimensions are in millimeters.
Tolerances:**
- X: ± 0.5 mm
- XX: ± 0.3 mm
- XXX: ± 0.05 mm

**Description:**
Connector, mono jack, 3.5x20.5 mm, panel mount, nickel plated, threaded, nut and washer

**Size:**
A 54-00080

**Scale:**
2:1