## Operating Temperature Range

$-25 \sim 105^{\circ} \mathrm{C}$, relative humidity of $85 \%$ or less

## Materials

(1) Insulator: Nylon, black (UL94-V0)
(2) Sleeve contact: C3604 phosphor bronze, $2 \mu \mathrm{~m}$ nickel plated
(3) Shell: C2700 brass, $2 \mu \mathrm{~m}$ nickel plated
(4) Tip contact: C5191 phosphor bronze, $2 \mu \mathrm{~m}$ nickel plated (5) Ring contact: C5191 phosphor bronze, $2 \mu \mathrm{~m}$ nickel plated (6) Ring contact: C5191 phosphor bronze, $1 \mu \mathrm{~m}$ gold plated

## Electrical Requirements

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

## Mechanical Requirement

Insertion force: $0.3-4 \mathrm{kgf}$
Withdrawal force: $0.3-4 \mathrm{kgf}$
Life cycle: 5000 mating cycles while maintaining 0.3 kgf min. insertion force, 0.3 kgf min . withdrawal force and less than 60 mR contact resistance.

## Environmental Requirements

Cold test: $-25 \pm 3^{\circ} \mathrm{C}$ for 48 hours without deformation
Heat test: $105^{\circ} \mathrm{C}$, relative humidity $70-85 \%$ for 96 hours without deformation
Humidity test: $40^{\circ} \mathrm{C}$, relative humidity $90-100 \%$ for 96 hours without deformation
Salt spray test: $35^{\circ} \mathrm{C}$, relative humidity $90-95 \%, 5 \% \mathrm{NaCl}$ mist for 24 hrs. Wash parts after test. Maintain mechanical requirements and a contact resistance of less than $80 \mathrm{~m} \Omega$.

(6)


| Revision: | Date: | Description: | Prepared:KW | Notes: <br> RoHS compliant <br> Function test: no open, no short circuit, no intermittent |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| A | 5/19/2020 | Initial release |  |  |  |  |  |  |
|  |  |  | Verified: |  |  |  |  |  |
|  |  |  | Dimensions are in millimeters. Tolerances: $\mathrm{X}: \quad \pm 0.3 \mathrm{~mm}$ X.X: $\pm 0.1 \mathrm{~mm}$ $X . X X: \pm 0.05 \mathrm{~mm}$ |  |  |  |  |  |
|  |  |  |  | Description: <br> Connector, 4C audio jack, $3.5 \times 7.8 \times \mathrm{L} 25.8 \mathrm{~mm}$, brass, nickel plated, $105^{\circ} \mathrm{C}$, nylon, molding style | $\begin{array}{c\|} \hline \text { Size: } \\ \text { A } \end{array}$ | $\begin{aligned} & \text { Part number: } \\ & 50-00949 \end{aligned}$ |  |  |
|  |  |  |  |  | Scale: 2:1 |  | ( $\bigcirc$ | Sheet 1 of 1 |
|  |  | 5 |  | 3 1 2 |  |  |  |  |

