

Withdrawal force: 0.3-3.0 kgf

- Life cycle: 5000 mating cycles while maintaining contact
- resistance: 100 m Ω maximum, withstand voltage: 500 Vac, 1 min Terminal strength: 500 gf applied to the terminal for 60 seconds in
- any direction while maintaining electrical characteristics and without damage or excessive looseness of terminals

Soldering

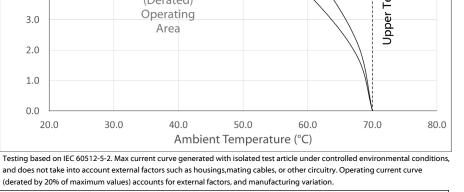
- Solderability: 90% minimum coverage when terminals dipped 2mm in 260 \pm 5 °C solder bath for 3 \pm 0.5 seconds
- Soldering heat test: no deformation when dipped 2 mm in 260 ± 5 °C solder bath for 10 ± 0.5 seconds
- Solder iron durability: no deformation when exposed to 350 ±10 °C for 5 seconds or less

Environmental Requirements

- Cold test: -40 ± 2 °C for 48 hours without deformation while maintaining contact resistance: $50 \text{ m}\Omega$ maximum, insulation resistance: 100 MQ @ 250 Vdc minimum, and no sign of damage mechanically or electrically
- Heat test: 85 ± 2 °C, relative humidity 45-85% for 48 hours while maintaining contact resistance: $50 \text{ m}\Omega$ maximum, insulation resistance: 100 M Ω @ 250 Vdc minimum, and no sign of damage mechanically or electrically
- Humidity test: 40 ±2 °C, relative humidity 90-95% for 48 hours while maintaining contact resistance: 50 m Ω maximum, insulation resistance: 100 MΩ @ 250 Vdc minimum, and no sign of damage mechanically or electrically
- Salt spray test: 35 ±2 °C,5% NaCl mist for 24 hrs. Wash parts after test. No corrosion shall be present.

Packaging Info:

Connectors packaged bulk 1000 pieces in sealed PE bag

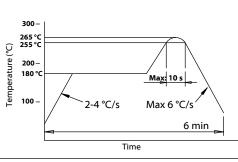


Reflow Soldering Temperature Profile

Pb - Free Flow Profile

Solder conditions vary depending on reflow soldering equipment.

The surface temperature of the jack must not exceed 265 °C.



Revision:	Date:	Description:	Prepared:	Notes:					
A	7/25/2019	Initial release		RoHS compliant			NSIL	ITY	
			Verified:	Function test: no open, no short circuit, no intermittent	t	tel 1.541.323.3228 800 877.670.7118 fax 1.541.323.4202 web tensility.com			
			Dimensions are in	1					
			 millimeters. Tolerances: X.X: ± 0.3 mm 	Description:	Size:	Size: Part number:			
				Connector, dc jack 5.5x2.5 mm, PCB mount, 90°,	A	54-00165			
			X.XX: ± 0.2 mm X.XXX: ± 0.1 mm	silver plated, PA9T, SMT		: 3:1	$\bigcirc \square$	Sheet 2 of 3	
		5	4	3 2				1	

