

Ratings

Voltage: 20 Vdc
Current: 8 A

Operating Temperature Range

-25 to 70°C, relative humidity of 85% or less

Materials

- ① Insulator: Nylon, black
- ② Pin: C3604 brass, 1 µm nickel plated
- ③ Shell: C3604 brass, 1 µm nickel plated
- ④ Spring contact: C5191 phosphor bronze, 1 µm nickel plated

Electrical Requirements

Dielectric strength: 1 min @ 500 Vac
Insulation resistance: 100 MΩ @ 500 Vdc
Contact resistance: 30 mΩ or less

Mechanical Requirements

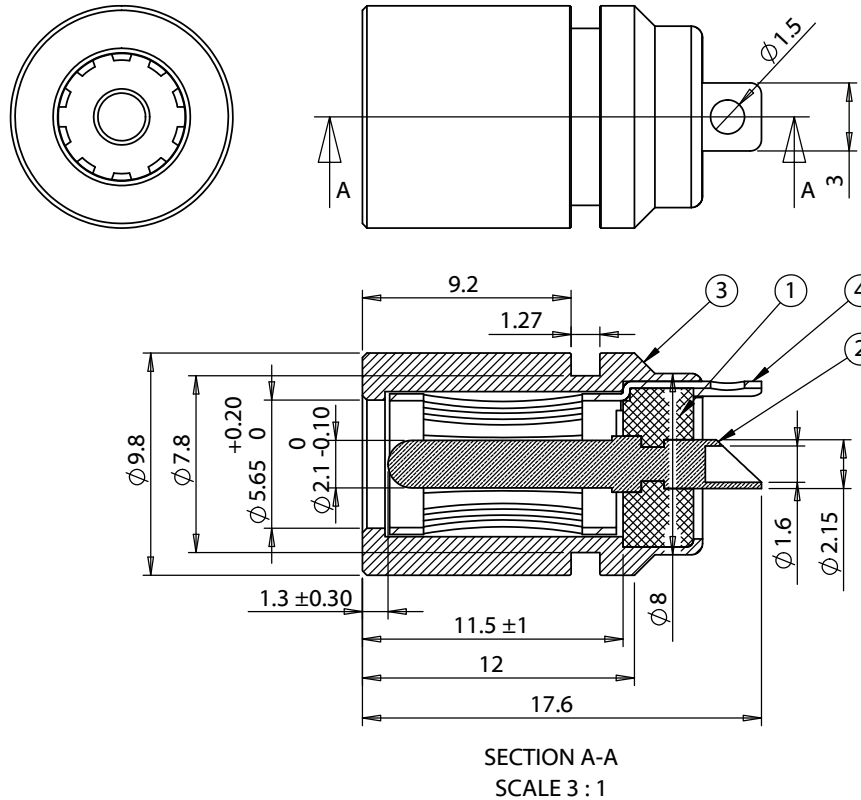
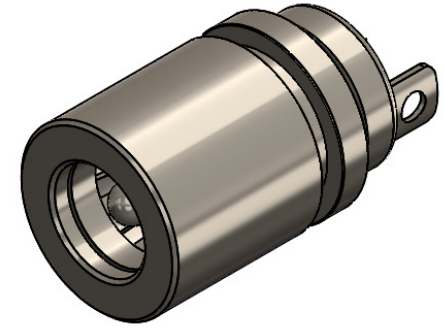
Insertion force: 0.3-3 kgf
Withdrawal force: 0.3-3 kgf
Life cycle: 5000 mating cycles while maintaining 0.3 kgf min.
insertion force, 0.2 kgf min. withdrawal force and less than
100 mΩ contact resistance.

Environmental Requirements

Cold test: -25 ±3 °C for 48 hours without deformation
Heat test: 70 °C, relative humidity 70-85% for 96 hours
without deformation

Contact resistance: 100 mΩ or less
Insulation resistance: 50 MΩ @ 500 Vdc 1 min
Humidity test: 40 °C, relative humidity 90-100% for 96 hours
Dielectric strength: 1 min @ 500 Vac
Insulation resistance: 50 MΩ @ 500 Vdc 1 min
Contact resistance: 100 mΩ or less

Salt spray test: 35±2 °C, relative humidity 90-95%, 5% NaCl
mist for 24 hrs. Wash parts after test. Maintain mechanical
requirements and a contact resistance of less than 80 mΩ.



Revision:	Date:	Description:	Prepared:	Notes:	TENSILITY tel 1.541.323.3228 800 877.670.7118 fax 1.541.323.4202 web tensility.com	
A	3/24/2016	Initial release	Verified:	RoHS and REACH compliant Function test: no open, no short circuit, no intermittent		
A1	4/11/2016	Modified specs and shell dimensions	Dimensions are in millimeters. Tolerances: X: ± 0.5 mm X.X: ± 0.3 mm X.XX: ± 0.05 mm	Description:	Size:	Part number:
				Connector, dc jack, 5.5x2.1xL17.6 mm, molding style, spring contacts. solder tab	A	50-00533
					Scale: 2:1	Sheet 1 of 1