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 M Ω @ 500 Vdc Contact resistance: $30 \text{ m}\Omega$ 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 m Ω 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: $100 \text{ m}\Omega$ or less

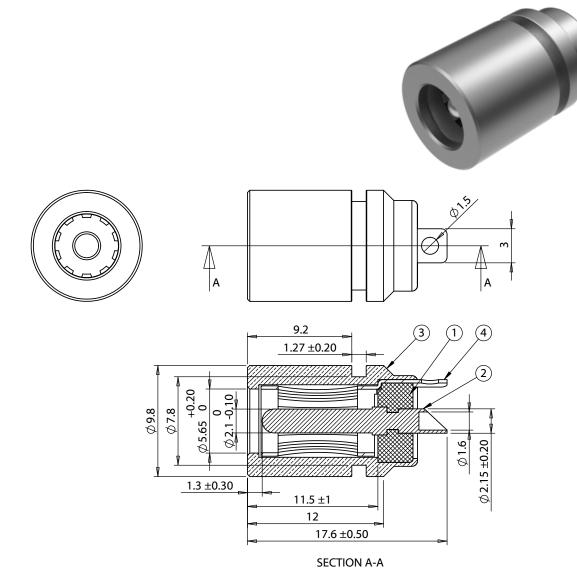
Insulation resistance: 50 MΩ @ 500 Vdc 1 min

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: $100 \text{ m}\Omega$ 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 m Ω .

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SCALE 3:1

Revision:	Date:	Description:	Prepared:	Notes:					
Α	3/24/2016	Initial release		RoHS and REACH compliant			Fľ	NSII.	ITY
A1	4/11/2016	Modified specs and shell dimensions	Verified:	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			
A2	1/11/2017	Modified tolerances	Dimensions are in						
			millimeters. Tolerances: X: ± 0.5 mm X.X: ± 0.3 mm X.XX: ± 0.05 mm	Description: Connector, dc jack, 5.5x2.1xL17	.6 mm, molding	Size: Part number: A 50-00533			
				style, spring contacts. solder tab		Scale:	2:1		Sheet 1 of 1

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