

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

- Materials**
- 1. Insulator, PBT +15% glass fiber, black
 - 2. Pin, C-5191 P-Bronze, 2 µm nickel plated
 - 3. Shell, C3604 brass, 2 µm nickel plated

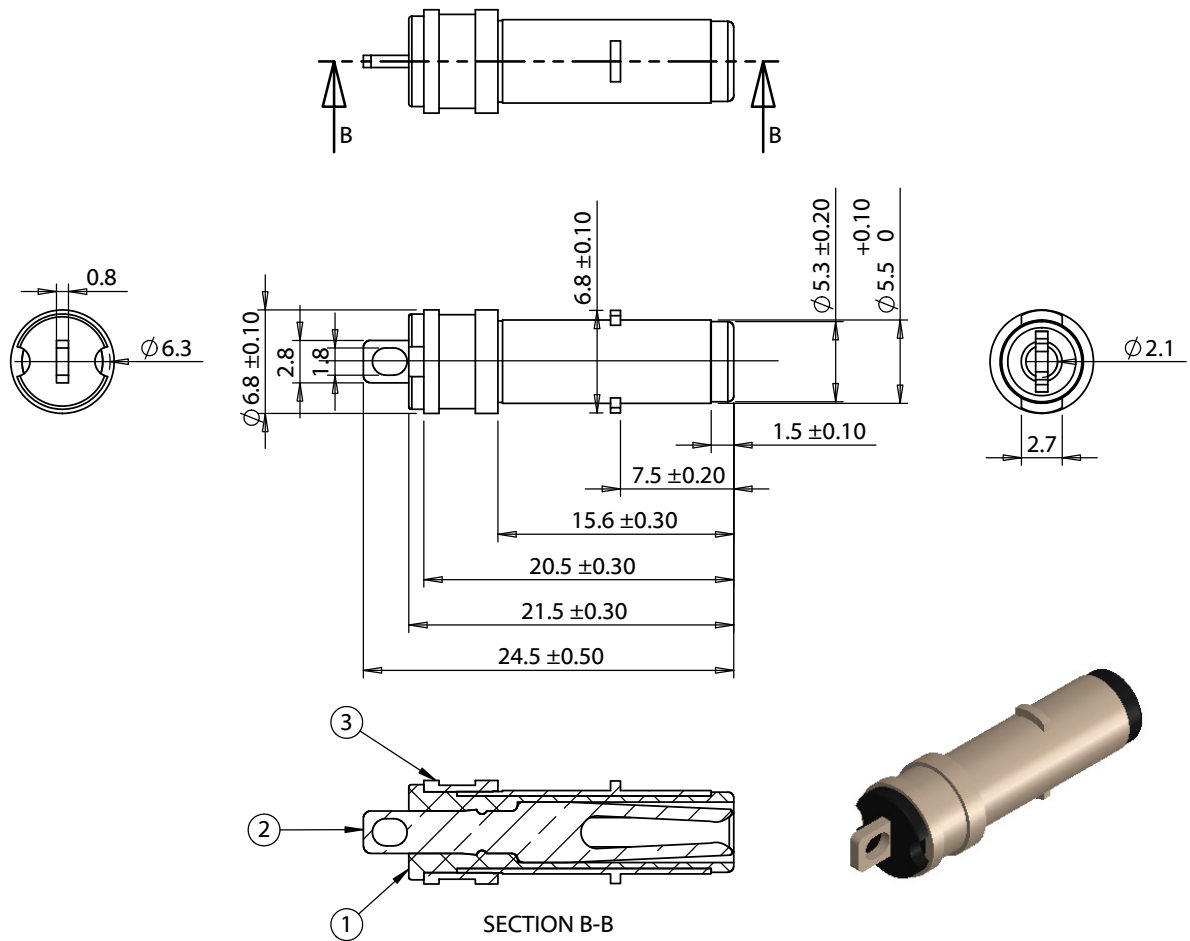
Electrical requirements
Dielectric strength: 1 min @ 500 Vac
Insulation resistance: 100 MΩ @ 500 Vdc
Contact resistance: 30 mΩ or less
Rated voltage: 20 Vdc
Rated current: 7 A

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 a less than 100 mΩ contact resistance.

Environmental requirements
Damp test: 40 °C, Relative Humidity 90-100% for 96 hrs. Cool to ambient and recover for 2 hours. Maintain dielectric strength of 500 Vac for 1 min, insulation resistance of 50 MΩ @ 500 Vdc minimum and a contact resistance of 100 mΩ or less.

Dry test: 70 °C, Relative Humidity 70-85% for 96 hrs. Cool to ambient and recover for 2 hours. Maintain insulation resistance of 50 MΩ @ 500 Vdc minimum and a contact resistance of 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 20802 Sockeye Place #130 Bend, OR 97701 USA tel 541.323.3228 fax 541.323.4202 800 877.670.7118 www.tensility.com		
A	10/21/2009	Initial release	VERIFIED	RoHS and REACH compliant Function test: no open, no short circuit, no intermittent			
			DIMENSIONS ARE IN MILLIMETERS	DESCRIPTION: Connector, dc plug, 5.5x2.1xL24.5 mm, molding style, spring contacts, twist lock	SIZE	PART NUMBER	
			TOLERANCES: Up to 1.0: ± 0.1 mm 1.0 to 10.0: ± 0.2 mm Over 10.0: ± 0.3 mm		A	50-00070	
					SCALE: 5:1		WEIGHT:
							SHEET 1 OF 1