Materials

- 1. Spring contact, C5191 phosphor bronze, 2 μm nickel plated
- 2. Shell, C2700 brass, 2 µm nickel plated
- 3. Insulator, PBT + 15% glass fiber, white

Electrical requirements

Dielectric strength: 1 min @ 500 Vac Insulation resistance: 100 M Ω @ 500 Vdc Contact resistance: 30 m Ω or less

Rated voltage: 20 Vdc Rated current: 7 A

Mechanical requirements

Insertion force: 0.3-3 kgf Withdrawal force: 0.3-3 kgf

Durability: 5000 mating cycles while maintaining; 0.3-2 kgf insertion force, 0.2-1.5 kgf withdrawal force and a less than 100 m Ω contact resistance.

Environmental requirements

Damp test: 40 °C, RH 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 M Ω @ 500 Vdc minimum and a contact resistance of 100 m Ω or less.

Dry test: 70 °C, RH 70-85% for 96 hrs. Cool to ambient and recover for 2 hours. Maintain insulation resistance of 50 M Ω @ 500 Vdc minimum and a contact resistance of 100 m Ω or less.

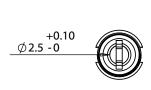
Salt spray test: 35 °C, RH 90-95%, 5% NaCl mist for 24 hrs. Wash parts after test. Maintain mechanical requirements and a contact resistance of less than 80 m Ω .

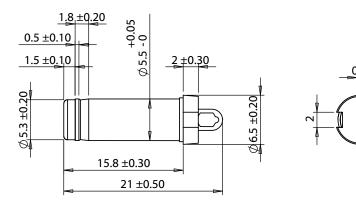
Description

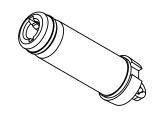
Operating range

Revision Date

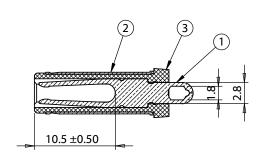
-25 to 70 °C, relative humidity of 85% or less







Notes



A	11/7/2012	Initial release	RoHS compliant Function test: no op	pen, no s	hort circuit, no INT		20802 Sockeye Place #130 Bend, OR 97701 USA te/ 541.323.3228 fax 541.323.4202 800 877.670.7118 www.tensility.com			
			TOLERANCES: X: ± 0.5 mm X.X: ± 0.3 mm	DESCRIPTION: Connector, dc plug, 5.5x2.5xL21mm, brass, nickel plated, molding type, white insulators		SIZE A		Part number 50-00314		
			X.XX: ± 0.05 mm			SCALE	E: 2:1	WEIGHT:	SHEET 1 OF 1	

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