

Materials

1. Shell, C3604 brass, 2 μ m nickel plated
2. Insulator, ABS, black
3. Pin, C3604 brass, 2 μ m nickel plated
4. Spring contact, C5191 phosphor bronze, 2 μ m nickel plated

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: 8 A

Mechanical requirements

Insertion force: 0.3-3 kgf
Withdrawal force: 0.3-3 kgf
Durability: 5000 mating cycles while maintaining; 0.3 kgf min. insertion force, 0.2 kgf min. withdrawal force and a less than 100 m Ω contact resistance.

Environmental requirements

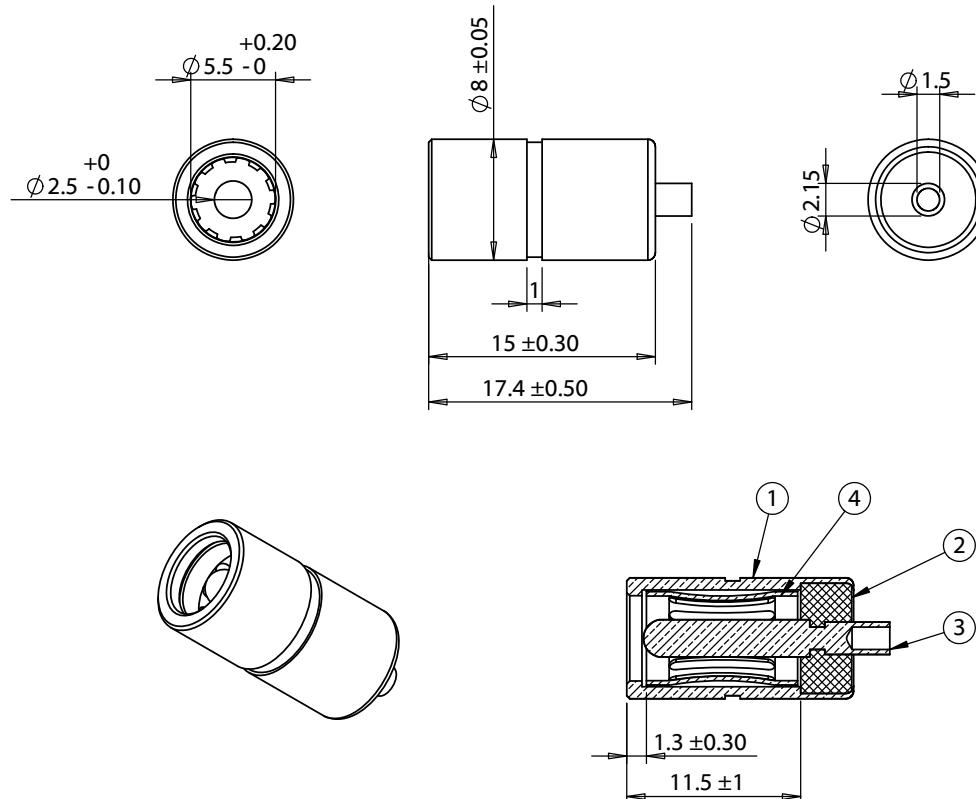
Damp test: 40 °C, RH 90-100% for 96 hrs. Cool to ambient and recover for 2 hours. Maintain dielectric strength of 500 Vac for 1 min, insulation resistance of 50 M Ω @ 500 Vdc minimum and a contact resistance of 100 m Ω or less.

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 .

Operating range

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



Revision	Date	Description	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	9/2/2009	Initial release		
A1	11/9/2012	Added test data		
			DIMENSIONS ARE IN MILLIMETERS TOLERANCES: X: ± 0.5 mm XX: ± 0.3 mm XXX: ± 0.05 mm	DESCRIPTION: Connector, dc jack, 5.5x2.5xL17.4 mm, molding style
			SIZE A	Part number 50-00027
			SCALE: 2:1	WEIGHT:
				SHEET 1 OF 1