#### Materials

- 1. Insulation block, POM, yellow
- 2. Insulator, PBT + 15% glass fiber, white
- 3. Shell, C3604 brass, 2 µm nickel plated
- 4. Spring contact, C5191 phosphor bronze, 2  $\mu m$  nickel plated

# **Electrical requirements**

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

Rated voltage: 20 Vdc Rated current: 4 A

# **Mechanical requirements**

Insertion force: 0.5-2 kgf Withdrawal force: 0.3-1.5 kgf

Durability: 5000 mating cycles while maintaining; 0.4-2 kgf insertion force, 0.2-1.5 kgf withdrawal force and a less than 100 m $\Omega$  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 $\Omega$  @ 500 Vdc minimum and a contact resistance of 100 m $\Omega$  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 $\Omega$  @ 500 Vdc minimum and a contact resistance of 100 m $\Omega$  or less.

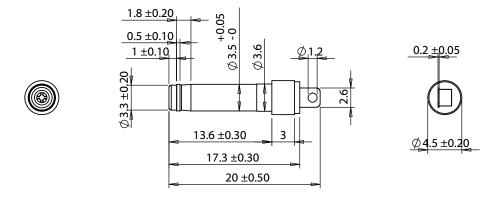
Salt spray test: 35 °C, RH 90-95%, 5% NaCl mist for 24 hrs. Wash parts after test. Maintain mechanical requirements and a contact resistance of less than 80 m $\Omega$ .

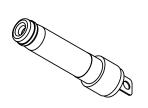
Description

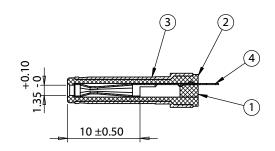
### Operating range

Davisian Data

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







A	11/7/2012	Initial release	RoHS compliant  Function test: no open, no	Notes hort circuit, no INT		20802 Sockeye Place #130 Bend, OR 97701 USA tel 541.323.3228 fax 541.323.4202 800 877.670.7118 www.tensility.com				
			DIMENSIONS ARE IN MILLIMETERS  TOLERANCES: X: ± 0.5 mm X.X: ± 0.3 mm X.XX: ± 0.05 mm	DESCRIPTION: Connector, dc plug, 3.5x' nickel plated, molding ty	1.35xL20mm, brass, pe, white insulators	SIZE A SCALE	50-0	1 WEIGHT: SHEET 1 OF 1		
5		5	4	3	2				1	

Notes