## Materials

- (1) Insulator: LCP + 30% glass fiber, UL 94 V-0, gray
- (2) Pin: brass, nickel plated
- (3) Shell: brass, nickel plated
  (4) Spring contact: phosphor bronze, nickel plated
- (5) Switch contact: brass
- 6 Shell contact: brass, nickel plated

## **Electrical Requirements**

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

## **Mechanical Requirements**

- Insertion force: 0.4-4 kgf
- Withdrawal force: 0.4-4 kgf
- Life cycle: 5000 mating cycles while maintaining 0.4 kgf min. insertion force, 0.4 kgf min. withdrawal force and less than 100 m $\Omega$  contact resistance.

## **Environmental Requirements**

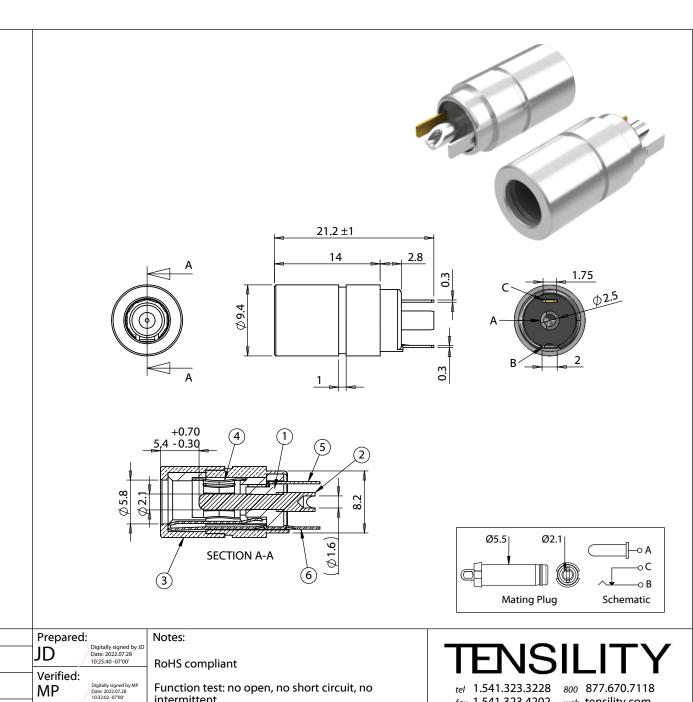
Date:

5/27/2022

Revision:

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- Cold test: -25 ±3 °C for 48 hours without deformation Heat test: 70 °C, relative humidity 70-85% for 96 hours without deformation
- Humidity test: 40 °C, relative humidity 90-100% for 96 hours without deformation



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Description:

Initial release

3

plating, molding style, switch

Connector, dc jack, 5.5x2.1xL22.0 mm, nickel

intermittent

Description:

Dimensions are in

± 0.3 mm

millimeters.

Tolerances:

X.X: ± 0.1 mm

X.XX: ± 0.05 mm

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2

Scale: 2:1

Part number:

50-01002

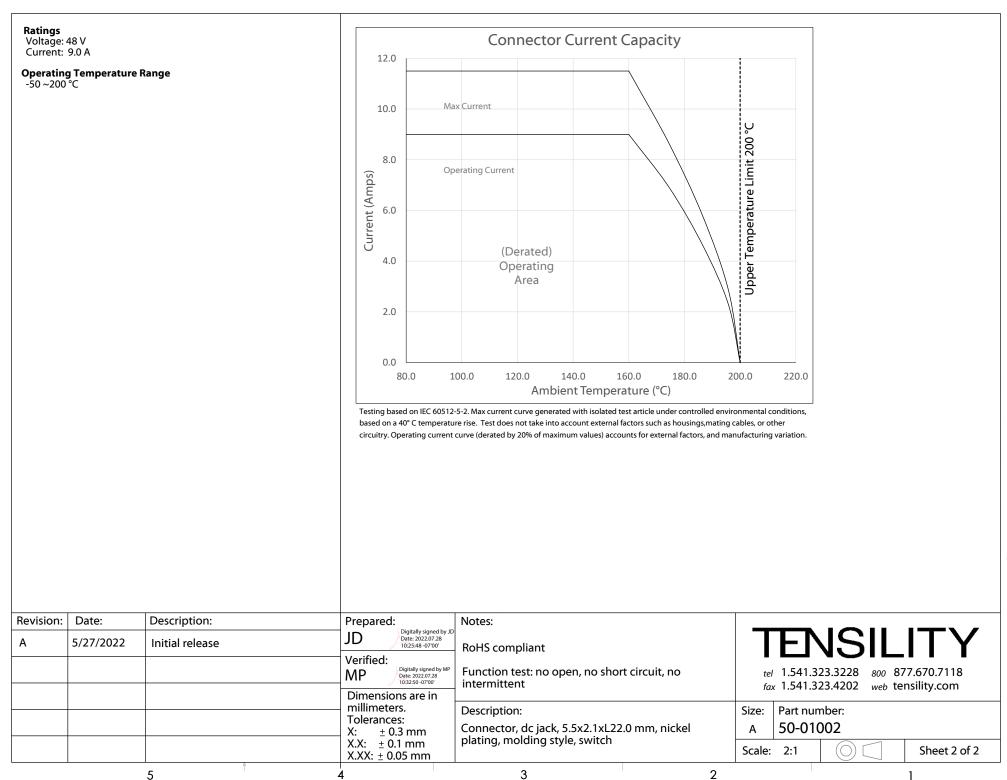
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fax 1.541.323.4202 web tensility.com

Sheet 1 of 2

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email engineering@tensility.com P at 541-323-3228 custom version of this cable assembly, call Tensility σ See 2