## Materials

Connector: 50-00590

- (1) Insulator, PBT + 15% glass fiber, UL94 V-0, black
- (2) Shell, H65, nickel plated
- (3) Tray, C3602, nickel plated
- (4) Center contact, C5191 phosphor bronze, nickel plated
- (5) Ground contact, brass, nickel plated

Inner Sleeve: 56-00002 (6) Inner sleeve, Nylon UL 94V-0

Outer Sleeve: 56-00003 (7) Outer sleeve, TPU, black

## **Electrical requirements**

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

## Mechanical requirements

Insertion force: 0.3~3 kgf Withdrawal force: 0.3~3 kgf Durability: 5000 mating cycles while maintaining; 0.3~3 kgf insertion force, 0.3~3 kgf withdrawal force and a less than 100 m $\Omega$  contact resistance.

## **Environmental requirements**

Revision:

A2

A3

A4

A5

A6

Date:

11/2/2016

3/8/2017

7/14/2017

8/22/2017

4/9/2018

Cold test:  $-25 \pm 3$  °C for 48 hours without deformation Heat test: 70 ±2 °C for 48 hours without deformation Humidity test: 40 ±2 °C and humidity between 90 and 98 % for 96 hours without deformation

Salt spray test: 35 °C, RH 90-95%, 5% NaCl mist for 24 hrs. Wash parts after test. Maintain mechanical and electrical requirements.

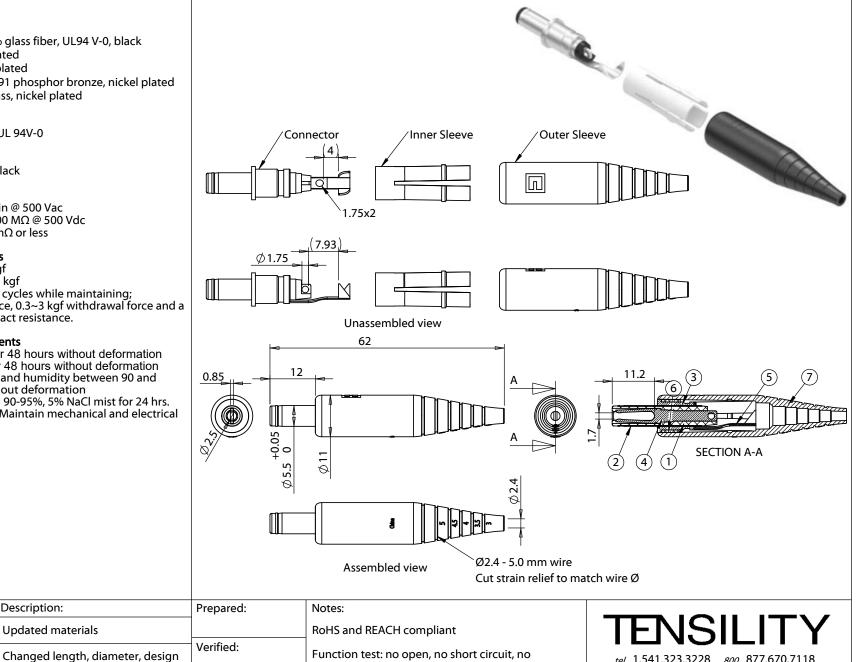
Description:

Updated materials

Changed inner sleeve design

Changed connector P/N

Updated curent rating



1.541.323.3228 800 877.670.7118 tel fax

1.541.323.4202	web tensility.com

Sheet 1 of 2

Description:	Size:	Part number:	
assembly type, spring contacts	А	55-000	)50
	Scale:	1:1	6

2

5

3

intermittent

Dimensions are in millimeters.

X.X: ± 0.3 mm

X.XX: ± 0.05 mm

± 0.5 mm

Tolerances:

X:

