#### Materials

Outer shell: C3604 brass, nickel-plating Front nut: C3604 brass, nickel-plating Insulator: PPS (Polyphenylene sulfide) UL94 V-0, beige

Pin: C38500 brass, 0.2 µm gold-plating, solder cup style Washer p/n 56-00006: cold rolled steel, nickel-plating Nut p/n 56-00007: C3604 brass, nickel-plating

### **Electrical Requirements**

Breakdown voltage: 0.85 kV rms (contact to contact), 0.70 kV rms

(contact to shell)

Dielectric strength: 1 min @ 500 Vac Insulation resistance: 10,000 M $\Omega$  @ 500 Vdc Contact resistance: 30 m $\Omega$  or less, 5000 cycles

### **Mechanical Requirements**

Insertion force: 1.02 kgf average Withdrawal force: 0.82 kgf average

Latch force: 18.4 kgf average

Life cycle: 5000 minimum mating cycles at 300 cycles per hour

Shock resistance: 100g, 6 ms

Resistance to vibration: 10-2000 Hz, 15g

# **Environmental Requirements**

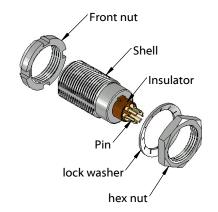
IP50 rating

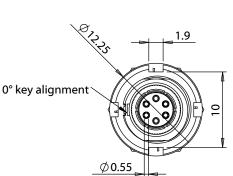
### Assembly info

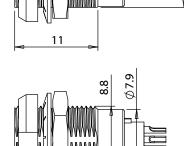
Wire gauge: 28 AWG max (Ø0.45 mm)

#### Mating info

Mates with PPL7 series plug (6 pin)

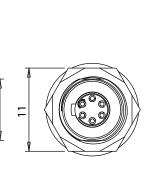


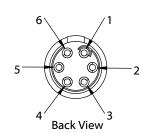




20 ±1

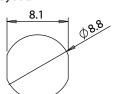
2.54





#### **Installation Details**

Panel thickness: 5.5 mm max Panel cutout Ø: 8.8 - 11.75 mm Connector layout:



8.1	08.8
	08.5

Revision:	Date:	Description:	Prepared:
Α	12/14/2017	Initial Release	
			Verified:
			Dimensions are in millimeters.
			Tolerances:
			X: ± 0.5 mm
			X.X: ± 0.3 mm
			X.XX: ± 0.05 mm

5

# Notes:

**RoHS and REACH compliant** 

Function test: no open, no short circuit, no intermittent

## Description:

Connector, PPL7, 6C, 0° panel socket, front-back mount, 7x20 mm, chrome, solder

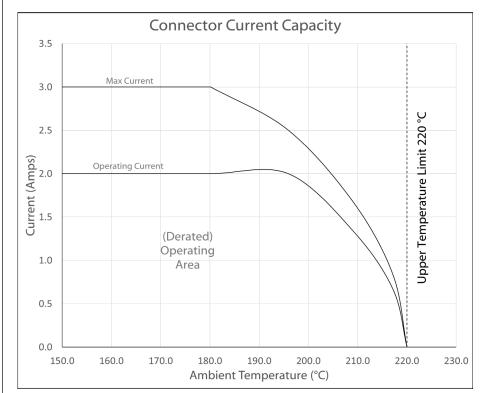
tel 1.541.323.3228 800 877.670.7118 fax 1.541.323.4202 web tensility.com

Part number: Size: 51-00024

Scale: 2:1 Sheet 1 of 2

3 2 Ratings Voltage: 300 V Current: 2.0 A

Operating Temperature Range -55 to 220 °C



Testing based on IEC 60512-5-2. Max current curve generated with isolated test article under controlled environmental conditions, and does not take into account external factors such as housings, mating cables, or other

Revision:	Date:	Description:	Prepared:	Notes:		
Α	12/14/2017	Initial Release		RoHS and REACH compliant		ENSILITY
			Verified:  Dimensions are in millimeters. Tolerances: X: ± 0.5 mm X.X: ± 0.3 mm X.XX: ± 0.05 mm	Function test: no open, no short circuit, no intermittent	tel 1.541.323.3228 800 877.670.7118 fax 1.541.323.4202 web tensility.com	
				Description: Connector, PPL7, 6C, 0° panel socket, front-back	Size:	Part number: 51-00024
				mount, 7x20 mm, chrome, solder	Scale:	2:1 Sheet 2 of 2

5 4 3