#### 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), 0.65 kV rms (contact to shell)

(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**

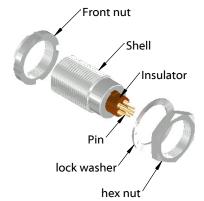
IP50 rating

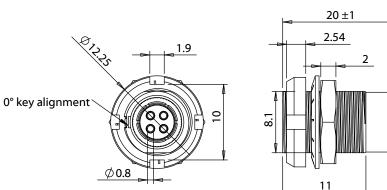
# **Assembly info**

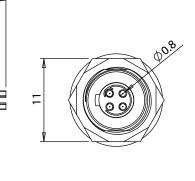
Wire gauge: 24 AWG max (Ø0.60 mm)

## Mating info

Mates with PPL7 series plug (4 pin)



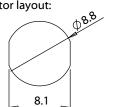


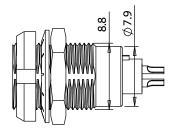


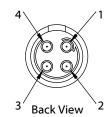
## **Installation Details**

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

Connector layout:







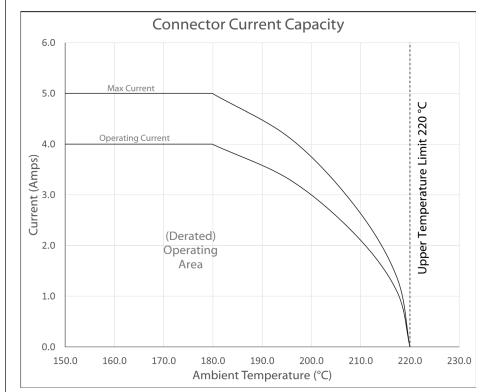
Revision:	Date:	Description:	Prepared:	Notes:					
Α	12/13/2017	Initial Release		RoHS and REACH compliant		F	<b>JSII</b>	ITY	
			Dimensions are in millimeters. Tolerances: X: ± 0.5 mm X.X: ± 0.3 mm X XX: + 0.05 mm	Function test: no open, no short circuit, no intermittent		tel 1.541.323.3228 800 877.670.7118 fax 1.541.323.4202 web tensility.com			
				meters. rances:  ± 0.5 mm ± 0.3 mm  Description:  Connector, PPL7, 4C, 0° panel socket, front-back mount, 7x20 mm, chrome, solder	Size:	Part nur			
1					Scale:	2:1	0	Sheet 1 of 2	

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Ratings Voltage: 300 V Current: 4 A

Operating Temperature Range -55 to 220  $^{\circ}\mathrm{C}$ 

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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 or circuitry. Recommended operating current curve accounts for external factors, manufacturing variation, and error in temperature measurements.

Revision:	Date:	Description:	Prepared:	Notes:				
Α	12/13/2017	Initial Release		RoHS and REACH compliant			NSIL	ITY
			Verified:  Dimensions are in millimeters. Tolerances: X: ± 0.5 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, 4C, 0° panel socket, front-back mount, 7x20 mm, chrome, solder	Size: Part number: A 51-00018			
			X.X: ± 0.3 mm X.XX: ± 0.05 mm		Scale:	2:1		Sheet 2 of 2