Materials

Outer shell: C3604 brass, black chrome-plating
Latch sleeve: C3604 brass, black chrome-plating
Split insert carrier 1: C3604 brass, nickel-plating
Split insert carrier 2: C3604 brass, nickel-plating
Insulator: PPS (Polyphenylene sulfide) UL94 V-0, beige
Pin: C38500 brass, 0.2 µm gold-plating, solder cup style
Collet: C3604 brass, nickel-plating
Collet nut: C3604 brass, black chrome-plating

Electrical Requirements

Breakdown voltage: 0.85 kV rms (contact to contact), 0.65 kV rms

(contact to shell)

Dielectric strength: 1 min @ 500 Vac Insulation resistance: 10000 M Ω @ 500 Vdc Contact resistance: 30 m Ω 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

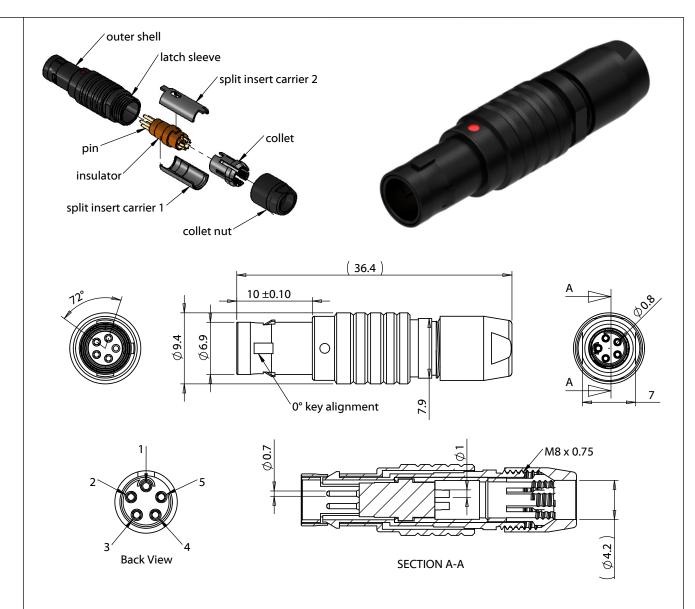
Assembly info

Wire gauge: 24 AWG max (Ø0.60) Cable jacket Ø: 3.2 - 4.2 mm

Maximum collet nut tightening torque: 0.5 Nm

Mating info

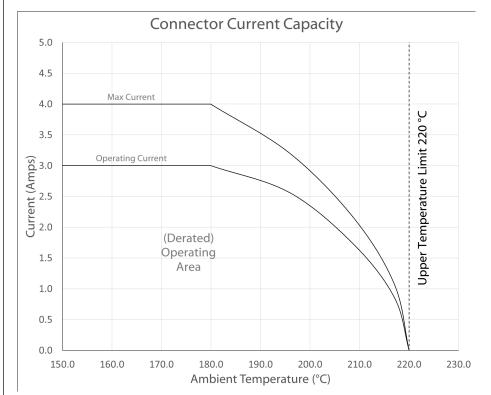
Mates with PPL7 series jacks (5 pin, 0° key)



Revision:	Date:	Description:	Prepared:	Notes:				
Α	05/19/2020	Initial Release		RoHS compliant			NSIL	ITY
			Dimensions are in millimeters. Tolerances:	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			77.670.7118
				Description: Connector, PPL7, 5C, 0° plug, 7x38 mm, black	Size: Part number: 51-00069.42			
				chrome, solder, Ø3.2-4.2 mm wire	Scale:	2:1		Sheet 1 of 2

5 3 Ratings Voltage: 300 V Current: 3.0 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	05/19/2020	Initial Release		RoHS compliant		\vdash	NSII .	ITY	
			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	te	1.541.3	323.3228 800 87 323.4202 web tel	77.670.7118	
				Description: Connector, PPL7, 5C, 0° plug, 7x38 mm, black chrome, solder, Ø3.2-4.2 mm wire	Size:	Part nu	mber: 069.42		
					Scale:	2:1		Sheet 2 of 2	

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