Materials

Outer shell: C3604 brass, black chrome-plating Split insert carrier 1: C3604 brass, nickel-plated Split insert carrier 2: C3604 brass, nickel-plated Insulator: PPS (Polyphenylene sulfide) UL94 V-0, beige Pin: C38500 brass, 0.2 µm gold-plated, solder cup style Collet: C3604 brass, nickel-plated 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: 10,000 MΩ @ 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

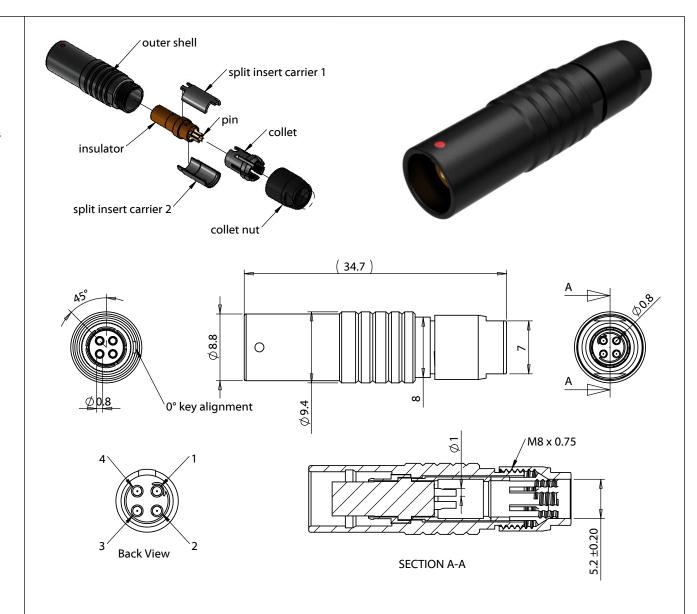
Assembly info

Wire gauge: 24 AWG max (Ø0.60) Max cable jacket Ø: 5.2 mm

Maximum collet nut tightening torque: 0.5 Nm

Mating info

Mates with PPL7 series plug (4 pin, 0° key)

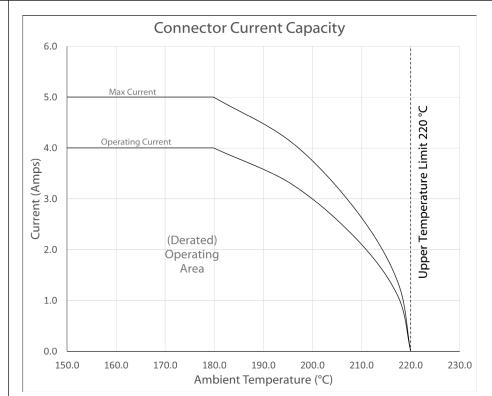


| Revision: | Date: | Description: | Prepared: | Notes: | | | | |
|-----------|------------|-----------------|---|--|---|--------------------------|--|--|
| Α | 05/19/2020 | Initial release | | RoHS compliant | | ENSILITY | | |
| | | | Verified: Dimensions are in millimeters. Tolerances: X: ± 0.5 mm 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, 4C, 0° socket, 7x35 mm, black chrome, solder, Ø4.2-5.2 mm wire | Size: | Part number: 51-00067.52 | | |
| | | | | | | 2:1 Sheet 1 of 2 | | |

5 3 Ratings Voltage: 300 V Current: 4 A

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

5



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 circuitry. Operating current curve (derated by 20% of maximum values) accounts for external factors, and manufacturing variation.

| Revision: | Date: | Description: | Prepared: | Notes: | | | | |
|-----------|------------|-----------------|---|--|---|-----|--------|--------------|
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| | | | X.X: ± 0.3 mm X.XX: ± 0.05 mm | | Scale: | 2:1 | | Sheet 2 of 2 |