

# SEALED CONNECTORS

## Wire-to-Wire & Wire-to-Board



Connectors with a compact design for wire to wire and wire to printed circuit board (PCB) mounting capability are engineered for high-performance applications where space efficiency and reliability are paramount. These connectors are built to withstand a wide operating temperature range, making them suitable for demanding environments such as automotive, aerospace, and industrial settings. Their excellent waterproof performance ensures durability and uninterrupted function even in moisture-rich conditions. Designed with multiple cavitation options, they offer versatility in signal and power distribution, allowing for complex circuitry to be managed within limited spaces. This combination of features makes them a robust, adaptable solution for modern electronic systems.

## Features

- ◆ High current capability (30A with CJ series)
- ◆ Compact design
- ◆ Wide operating temperature range (125°C with CJ series)
- ◆ Multiple cavity options can be achieved using cavity plugs
- ◆ Excellent waterproof performance (IP67 rated)

## Applications

- **Automotive:** LED Headlamp, EPS (this is a well-known term now), Electric Compressor, EGR Valve
- **Medical:** Electric Wheel Chair, Powered Suit (exoskeleton)
- **Industrial:** Power Tools, Refrigerator, LED Lighting, Air Conditioner, Drones

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### Specifications

	CA Series	CB Series	CJ Series
Pin Count	Inline: 2, 3, 4, 5, 6, 8 Board: 2, 3, 4	Inline: 2, 3, 5 Board: 2, 3, 5 Branch: 2	Inline: 3
Pitch	2.00 mm or more	2.50 mm or more	5.8 mm
Blade Width	0.5 mm	0.8 mm	2.4 mm
Mounting Method	In-Line, DIP	In-Line, DIP	In-Line
Current Rating	2A MAX	3A MAX	30A MAX (Temp. rise 40 degree max)
Voltage Rating	250 V	250 V	600 VAC
Operating Temperature	-40°C ~ +105°C	-40°C ~ +105°C	-55°C ~ +125°C
Mating Cycles	30	30	30
Applicable Board Thickness	1.60 mm	1.60 mm	N/A
Connector Insertion Force	< 53.9 N	< 41.5 N	< 53.0 N
Terminal Insertion Force	9.8 N/pin or less	9.8 N/pin or less	14.7 N/pin or less
Terminal Retention Force	14.7 N/pin or more	14.7 N/pin or more	58.8 N or more
Waterproof Class	IP67	IP67	IP67

### Materials

Housing	PBT
Terminal	Copper alloy, Tin plating
Housing Seal	Silicone Rubber
Wire Seal	Silicone Rubber