

# Squba 1.80 and 3.60mm-Pitch Sealed Wire-To-Wire Connector System

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Squba 1.80 and 3.60mm-Pitch Sealed Wire-to-Wire Connector Systems are designs that offer an IP67-seal rating and carry up to 14.0A of current to deliver reliable power in a wide range of space-constrained applications

## Features and Advantages

### Protected, low-profile positive latch

Prevents wire from getting caught on latch and damaging it. Minimizes latch size to prevent latch from adding to connector's package size

### Mated housings

Offers receptacle and plug housings to fit design need

### Seal caps

Protect seals from damage during shipping, handling and use. Align terminals to prevent seal from being punctured during assembly

### Sealed components with proven performance

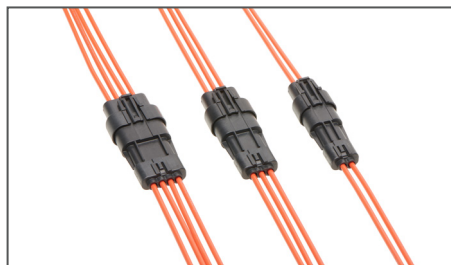
Delivers an IP67-sealed rating. Prevents ingress of dust and water to ensure reliable connection

### Voided circuit options (1.80mm-pitch version)

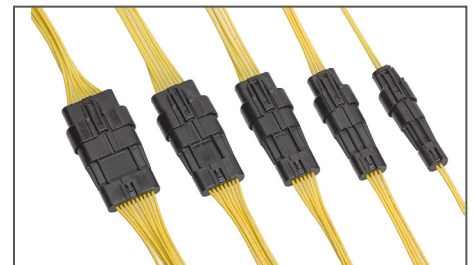
Offers design flexibility for 3, 5, 7 and 9 circuit needs

### Clean-body terminals

Avoids seal punctures



Squba 3.60mm-Pitch Sealed Connector Family, Fully Mated, 2 to 4 Circuits, with a Current of up to 14.0A



Squba 1.80mm-Pitch Sealed Connector Family, Fully Mated, 2 to 10 circuits, Void Options Available for 3-, 5-, 7- and 9-Circuit Needs, with a Current of up to 6.0A

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## Markets and Applications

### Consumer

Liquid dispensing equipment  
HVAC equipment  
Landscaping equipment

### Commercial vehicle

ATV  
Marine: under-dash wiring, lighting  
Forklifts  
Trucks  
Buses  
Recreational vehicles

### Industrial

Robotics  
Industrial machines and motors  
Food processing equipment/plants  
Industrial controls

### Connected Home

Security and surveillance  
Smart appliance  
Home health and wellness  
Home automation



Security Systems



HVAC



Robotic Arm



ATV

## Specifications

### REFERENCE INFORMATION

Receptacle Packaging: Tray  
Plug Packaging: Bulk  
Crimp Terminal Packaging: Reels  
UL File No.: TBD  
CSA File No.: TBD

|                          | <u>1.80mm</u>  | <u>3.60mm</u>  |
|--------------------------|----------------|----------------|
| Use With:                | 22 to 24 AWG   | 16 to 20 AWG   |
| Insulation Diameter:     | 0.95 to 1.40mm | 1.50 to 2.40mm |
| Designed In: Millimeters |                |                |
| RoHS: Yes                |                |                |
| Halogen Free: No         |                |                |
| Glow Wire Compliant: TBD |                |                |
| IP Rating: IP67          |                |                |

### ELECTRICAL

|                                                | <u>1.80mm</u> | <u>3.60mm</u> |
|------------------------------------------------|---------------|---------------|
| Voltage (max.):                                | 125V          | 600V          |
| Current (max.):                                | 6.0A          | 14.0A         |
| Contact Resistance: 10 milliohms               |               |               |
| Dielectric Withstanding Voltage: Leakage < 5mA |               |               |
| Insulation Resistance (min.): 100 Megohms      |               |               |

### MECHANICAL

Terminal Retention to Housing (min.): 30N  
Mating Force (max.): 45N  
Unmating Force (max.): 35N  
Durability (max.): 10 Cycles

### PHYSICAL

Housing: Plastic  
Contact: Copper Alloy  
Plating:  
    Overall — Tin  
    Underplating — Nickel  
Operating Temperature: -40 to +105°C

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## Ordering Information

### Squba 1.80mm Receptacles

| Parts                      | Description        | Circuits | Seal Plug Position |
|----------------------------|--------------------|----------|--------------------|
| <a href="#">2042200002</a> | Sealed Receptacles | 2        | none               |
| <a href="#">2042200004</a> |                    | 4        |                    |
| <a href="#">2042200006</a> |                    | 6        |                    |
| <a href="#">2042200008</a> |                    | 8        |                    |
| <a href="#">2042200010</a> |                    | 10       |                    |
| <a href="#">2042201110</a> |                    | 9        | 10                 |
| <a href="#">2042204004</a> |                    | 3        | 4                  |
| <a href="#">2042206006</a> |                    | 5        | 6                  |
| <a href="#">2042208008</a> |                    | 7        | 8                  |

### Squba 1.80mm Plugs

| Parts                      | Description  | Circuits | Seal Plug Position |
|----------------------------|--------------|----------|--------------------|
| <a href="#">2042230002</a> | Sealed Plugs | 2        | none               |
| <a href="#">2042230004</a> |              | 4        |                    |
| <a href="#">2042230006</a> |              | 6        |                    |
| <a href="#">2042230008</a> |              | 8        |                    |
| <a href="#">2042230010</a> |              | 10       |                    |
| <a href="#">2042231110</a> |              | 9        | 10                 |
| <a href="#">2042234004</a> |              | 3        | 4                  |
| <a href="#">2042236006</a> |              | 5        | 6                  |
| <a href="#">2042238008</a> |              | 7        | 8                  |

### Squba 1.80mm Terminals

| Parts                      | Description       | Wire Gauge (AWG) |
|----------------------------|-------------------|------------------|
| Receptacle Terminals       |                   |                  |
| <a href="#">2043010001</a> | Matte Tin Plating | 22-24            |
| Plug Terminals             |                   |                  |
| <a href="#">2042261001</a> | Matte Tin Plating | 22-24            |

### Squba 3.60mm Receptacles

| Part No.                   | Component          | Circuits |
|----------------------------|--------------------|----------|
| <a href="#">2077820002</a> | Sealed Receptacles | 2        |
| <a href="#">2077820003</a> |                    | 3        |
| <a href="#">2077820004</a> |                    | 4        |

### Squba 3.60mm Plugs

| Part No.                   | Component    | Circuits |
|----------------------------|--------------|----------|
| <a href="#">2077780002</a> | Sealed Plugs | 2        |
| <a href="#">2077780003</a> |              | 3        |
| <a href="#">2077780004</a> |              | 4        |

### Squba 3.60mm Terminals

| Series                     |                   | Wire Gauge (AWG) |      |
|----------------------------|-------------------|------------------|------|
| Receptacle Terminals       |                   |                  |      |
| <a href="#">2077770001</a> | Matte Tin Plating | 16               | Reel |
| <a href="#">2077770002</a> |                   | 18-20            |      |
| Plug Terminals             |                   |                  |      |
| <a href="#">2077760001</a> | Matte Tin Plating | 16               | Reel |

[www.molex.com/link/squba.html](http://www.molex.com/link/squba.html)

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