

Squba Sealed 1.80mm Panel Mount Connectors >

Squba Sealed 1.80mm-Pitch Panel Mount Connectors attach directly to the panel to eliminate external strain. They offer a UL-approved, IP68-seal rating and carry up to 6.0A of current—delivering rugged and reliable power for space-constrained applications.



Squba Sealed 1.80mm-Pitch Panel Mount Connectors

FEATURES AND ADVANTAGES

Connector attaches directly to panel

Eliminates external strain on electrical connections at the back of the connector

Rugged design

Lowers risk of failure in smaller enclosures, while supporting a high operating temperature and current rating

Mated housings

Offer receptacle and plug housings to fit a range of design needs



Miniature size for space-constrained applications

Saves real estate and helps control costs as devices become increasingly smaller



Voided circuit options (1.80mm-pitch version)

Offer greater design flexibility for 2, 4, 6, 8 and 10 circuit needs

Sealed components with proven performance

Deliver an IP68-seal rating that prevents ingress of moisture and contaminants, to ensure reliable connection

SPECIFICATIONS

Reference Information

Packaging:
 Tray Plug Packaging: Bulk
 Crimp Terminal Packaging: Reels
 UL File No.: TBD
 CSA File No.: TBD
 Use with: 22 to 24 AWG (1.80mm)
 Insulation Diameter: 0.95 to 1.40mm (1.80mm)
 Designed In: Millimeters
 RoHS: Yes
 Halogen Free: No
 Glow Wire Compliant: No (1.80mm)
 IP Rating: IP68

Electrical

Voltage (max.): 125V (1.80mm)
 Current (max.): 6.0A (1.80mm)
 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

* The specification given is based on the connector used

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MARKETS AND APPLICATIONS

Commercial Vehicle

- ATVs
- Marine: under-dash wiring, lighting, boats and boat engines
- Buses
- Forklifts
- Recreational vehicles
- Trucks

Connected Home

- Home automation
- Home health and wellness
- Security and surveillance
- Smart appliances

Consumer

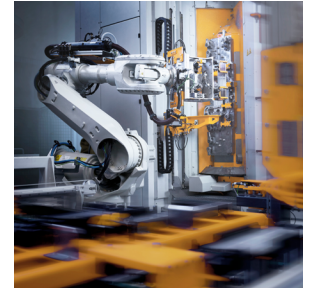
- HVAC
- Home appliances
- Landscaping equipment
- Liquid-dispensing equipment
- Vending machines

Industrial Automation

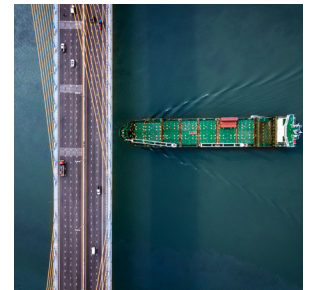
- Food processing equipment/plants
- Industrial controllers
- Industrial machines and motors
- Robotics



Consumer and HVAC



Industrial Automation



Commercial Vehicle, Boats and Boat Engines

Note: Application recommendations are based on the connector specifications.

ORDERING INFORMATION

Series	Component	Circuits
<u>204223</u>	Squba Sealed 1.80mm-Pitch Panel Mount Connectors	2, 4, 6, 8 and 10

www.molex.com/link/squbaconnectors.html