DATASHEET

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

Squba 1.80mm- and 3.60mm-Pitch Sealed Wire-to-Wire Connector Systems are UL approved, IP68 rated and carry up to 14.0A of current to deliver reliable power in a wide range of space-constrained applications. The Squba Connector system offers great design flexibility with color mechanically keyed options, a UL1230 compatible option for HVAC applications and a panel-mount option.

ADVANTAGES AND FEATURES

Streamlines the bill of materials
These connectors convert even-circuit parts to odd-circuit parts allowing customers to avoid purchasing new components; ideal for cost savings.

Delivers reliable connections in high-vibration application
The CPA helps prevent accidental disengagement or loosening that can occur due to vibrations or shocks during operation.

Helps ensure reliable HVAC performance; suitable for wet conditions
These connectors meet the UL 1230 standard for resistance to moisture effects, preventing electrical hazards and maintaining performance in wet environments.

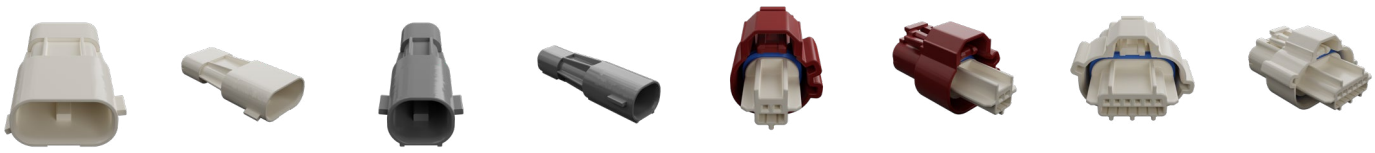
Voltage (max.)	1.80mm—125V | 3.60mm—600V
Current (max.)	1.80mm—6.0A | 3.60mm—14.0A
Operating temperatures	-40 to +105°C
Durability (min.)	10 cycles

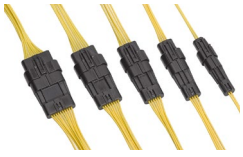
Provides connector stability and security; offers easy assembly for operators
The latch design helps lock the connector into place to avoid a disconnect.

Delivers an IP68-sealed rating
The sealed components help prevent water and dust ingress for reliable connections and proven performance.

Ensures proper alignment and mating
These connectors are colored and mechanically keyed for enhanced efficiency and reliability.

Allows connector to securely attach to the panel
The clip-slot option secures the connector to a panel helping prevent unstable connections that can lead to system downtimes.





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



Squba 1.80 and 3.60mm-Pitch Connectors



Squba Clean-Body Terminals



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, Clip-Slot Version



Squba Sealed Cavity Plug

DATASHEET

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

MARKETS AND APPLICATIONS

Commercial Vehicle
ATVs
Buses
Forklifts
Marine: under-das wiring, lighting
Recreational vehicles
Trucks

Connected Home
Home automation systems
Home health and wellness systems
Security and surveillance equipment
Smart appliances

Consumer
HVAC equipment
Home appliances
Landscaping equipment
Liquid dispensing equipment
Vending machines
Washing machines

Industrial Automation
Food processing facilities
Food processing equipment
Industrial controllers
Industrial machines and motors machines
Robotics



HVAC Equipment



Recreational Vehicles



Food Processing Equipment



Home Automation Systems

SPECIFICATIONS

Reference Information
Receptacle Packaging: Tray
Plug Packaging: Bulk
Crimp Terminal Packaging: Reels
UL File No.: TBD
CSA File No.: TBD
1.80mm Pitch
  Use With: 26 to 22 AWG
  Insulation Diameter: 0.95 to 1.40mm
3.60mm Pitch
  Use With: 20 to 16 AWG
  Insulation Diameter: 1.50 to 2.40mm
Designed In: Millimeters
RoHS: Yes
Halogen Free: No
Glow Wire Capable:
  Yes (3.60mm)
  No (1.80mm)
IP Rating: IP68

Electrical

	1.80mm	3.60mm
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 lower alloy
Plating:
  Overall — tin
  Underplating — nickel
Operating Temperature: -40 to +105°C

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

ORDERING INFORMATION

Squba 1.80 and 3.60mm Plugs and Receptacles

Series	Component	Circuits	Colors	UL Wire Style	AWG
204220	Squba 1.8 receptacle assembly	2, 4, 6, 8, 10	Black, red, natural, gray, yellow, pink, orange, blue, green, mint	UL 1061, UL1007/1569	-
204220	Squba 1.8 CPA receptacle assembly	2, 4, 6, 8, 10	Black, red, natural, gray, yellow, pink, orange, blue, green, mint	UL 1061, UL1007/1569	-
204223	Squba 1.8 plug assembly	2, 4, 6, 8, 10	Black, red, natural, gray, yellow, pink, orange, blue, green, mint	UL 1061, UL1007/1569	-
204301	Squba 1.8 receptacle terminal	-	-	UL 1061, UL1007/1569	26, 24 to 22
204226	Squba 1.8 plug terminal	-	-	UL 1061, UL1007/1569	26, 24 to 22
207782	Squba 3.6 receptacle assembly	2, 3, 4	Black, red, natural, gray, yellow, brown, orange, blue, green, mint	1007/1061, 1015/1230	-
207778	Squba 3.6 plug assembly	2, 3, 4	Black, red, natural, gray, yellow, brown, orange, blue, green, mint	1007/1061, 1015/1230	-
207777	Squba 3.6 receptacle terminal	-	-	1007/1061, 1015/1230	20 to 18, 16
207776	Squba 3.6 plug terminal	-	-	1007/1061, 1015/1230	20 to 18, 16

Squba 1.80mm Receptacles

Parts	Description	Circuits	Circuit Number Voided Position
2042201110	Odd-numbered receptacles	9	10
2042204004		3	4
2042206006		5	6
2042208008		7	8

Squba 1.80mm Plugs

Parts	Description	Circuits	Circuit Number Voided
2042231110	Odd-numbered plugs	9	10
2042234004		3	4
2042236006		5	6
2042238008		7	8

Squba 1.80mm Terminals

Parts	Description	Wire Gauge (AWG)
Receptacle Terminals		
2043010001	Matte tin plating	24 to 22
2043010002	Matte tin plating	26
Plug Terminals		
2042261001	Matte tin plating	24 to 22
2042261002	Matte tin plating	26

Squba 3.60mm Terminals

Series	Description	Wire Gauge
Receptacle Terminals		
2077770001	Matte tin plating	16
2077770002	Matte tin plating	20 to 18
Plug Terminals		
2077760001	Matte tin plating	16
2077760003	Matte tin plating	20 to 18

Squba 1.80 and 3.60mm Cavity Plugs

Series	Description	Wire Style
2242470001	Blade cavity plug, 1.80mm	UL 1061
2242470002	Receptacle cavity plug, 1.80mm	
2242480001	Blade cavity plug, 3.60mm, S Wire	UL 1007/1061 OR EQ
2242480002	Blade cavity plug, 3.60mm, L Wire	UL 1015 OR EQ
2242490001	Receptacle cavity plug, 3.60mm, S wire	UL 1007/1061 OR EQ
2242490002	Receptacle cavity plug, 3.60mm, L wire	UL 1015 OR EQ

Squba Accessories

Series	Component	Circuits
220423	Squba plug weather caps	2, 4, 6, 8 and 10
220424	Squba receptacle weather caps	

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