

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

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

The positive latch has a protected, low profile.

Protects seals from damage during shipping, handling and use; aligns terminals to help prevent seal from being punctured during assembly

These connectors offer weather caps to provide optimal protection and terminal guidance for reliable connections and quality performance.

Reduces the cost of materials and labor and allows customers to the European standard for electrical requirements

This product uses V0 Glow-Wire combination resin.

Avoids seal punctures

The clean-body terminals have wraparound insulation crimp.

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

Helps ensure reliable HVAC performance; suitable for wet conditions

These connectors meet the UL 1230 standard.

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

The 1.80mm-pitch version has voided circuit options.

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

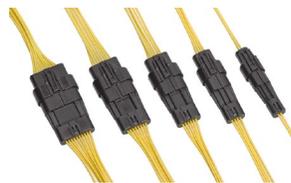
These connectors are colored and mechanically keyed for enhanced efficiency and reliability.

Allows connector to securely attach to the panel

The robust clip-slot version is made of automotive-grade fir tree material.

Offers receptacle and plug housings to fit design needs

Squba connectors have mated housings.



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 1.80 and 3.60mm-Pitch Connectors



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



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MARKETS AND APPLICATIONS

Consumer

Liquid dispensing equipment
HVAC equipment
Home appliances
Landscaping equipment

Commercial Vehicle

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

Industrial Automation

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



HVAC



Robotic Arm



Boat



ATV

SPECIFICATIONS

Reference Information

Receptacle Packaging: Tray
Plug Packaging: Bulk
Crimp Terminal Packaging: Reels
UL File No.: TBD
CSA File No.: TBD
1.80mm 3.60mm
Use With: 24 to 22 AWG
20 to 16 AWG Insulation
Diameter: 0.95 to 1.40mm 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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ORDERING INFORMATION

Squba 1.80mm Receptacles

Parts	Description	Circuits	Seal Plug Position
2042200002	Sealed Receptacles	2	none
2042200004		4	
2042200006		6	
2042200008		8	
2042200010		10	
2042201110		9	10
2042204004		3	4
2042206006		5	6
2042208008		7	8

Squba 1.80mm Plugs

Parts	Description	Circuits	Seal Plug Position
2042230002	Sealed Plugs	2	none
2042230004		4	
2042230006		6	
2042230008		8	
2042230010		10	
2042231110		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	22-24
Plug Terminals		
2042261001	Matte Tin Plating	22-24

Squba 3.60mm Terminals

Series	Description	Wire Gauge (AWG)	
Receptacle Terminals			
2077770001	Matte Tin Plating	16	Reel
2077770002		18-20	
Plug Terminals			
2077760001	Matte Tin Plating	16	Reel

Squba 3.60mm Receptacles

Part No.	Component	Circuits
2077820002	Sealed Receptacles	2
2077820003		3
2077820004		4

Series	Component	Circuits
220423	Squba Plug Weather Caps	2, 4, 6, 8 and 10
220424	Squba Receptacle Weather Caps	

Squba 3.60mm Plugs

Part No.	Component	Circuits
2077780002	Sealed Plugs	2
2077780003		3
2077780004		4

Squba 3.60mm Plugs and Receptacles

Series	Component	Circuits	Colors	Wire Gauge/AWG
207782	Squba 3.6 Receptacle Assembly	2, 3, 4	Black, Red, Natural, Gray, Yellow, Brown, Orange, Blue, Green, Mint	UL 1015/UL 1230 and UL 1007/UL 1061
207778	Squba 3.6 Plug Assembly	2, 3, 4	Black, Red, Natural, Gray, Yellow, Brown, Orange, Blue, Green, Mint	UL 1007/UL 1061
207777	Squba 3.6 Receptacle Terminal	-	-	UL 1007/UL 1061
207776	Squba 3.6 Plug Terminal	-	-	UL 1007/UL 1061

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