

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.

Meets European standard for electrical requirements

This product uses V0 Glow-Wire combination resin for compliance with international safety standards, facilitating greater market access.

Avoids seal punctures

The clean-body terminals have wraparound insulation crimp to help prevent punctures that lead to electrical failures.

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

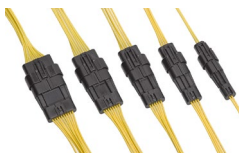
The clip-slot option secures the connector to a panel helping prevent unstable connections that can lead to system downtimes.



Squba Sealed Cavity Plug



Squba 1.80mm-Pitch Terminals



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



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

MARKETS AND APPLICATIONS

Consumer

HVAC equipment
Home Appliances
Landscaping equipment
Liquid dispensing equipment
Vending machines
Washing machines

Commercial Vehicle

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

Industrial Automation

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

Connected Home

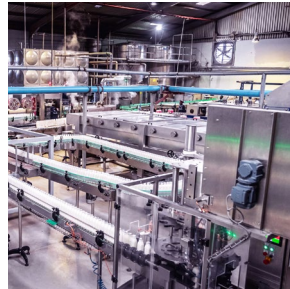
Home automation systems
Home health and wellness systems
Security and surveillance equipment
Smart appliances



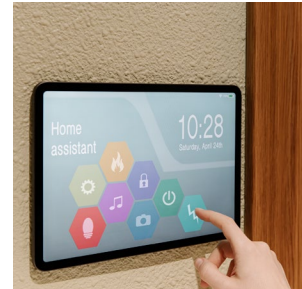
HVAC Equipment



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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ORDERING INFORMATION

Squba 1.80mm Receptacles

Parts	Description	Circuits	Seal Plug
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 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 Receptacles

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

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

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 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

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

1.80mm and 3.60mm Squba 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