

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

Squba 1.80 and 3.60mm-Pitch Sealed Wire-to-Wire Connector Systems are designs that protect against ingress with an IP68-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

Prevents wire from getting caught on latch and damaging it. Minimizes latch size to prevent latch from adding to connector's package size
Protected, low-profile positive latch

Offer receptacle and plug housings to fit design need
Mated housings

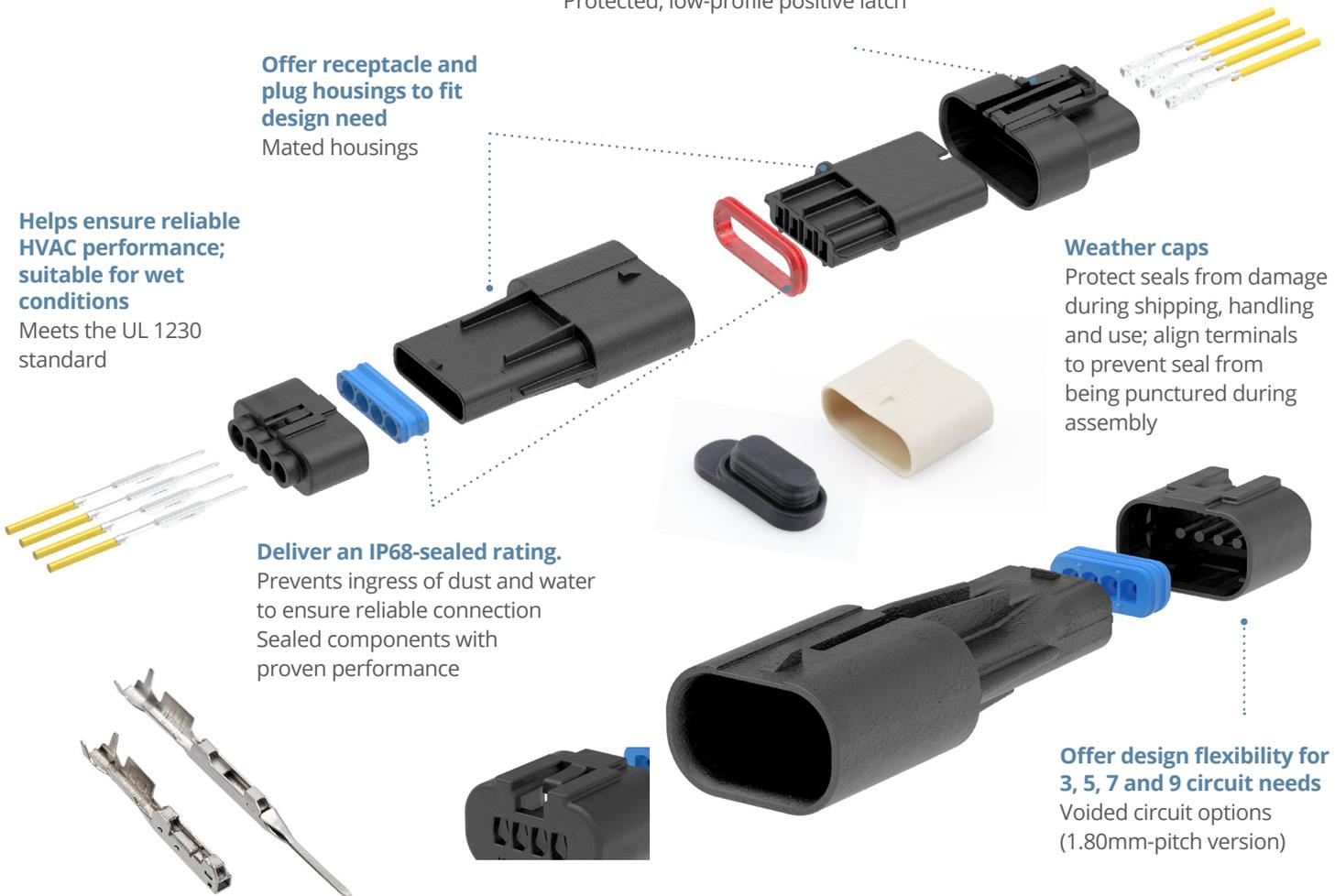
Helps ensure reliable HVAC performance; suitable for wet conditions
Meets the UL 1230 standard

Weather caps
Protect seals from damage during shipping, handling and use; align terminals to prevent seal from being punctured during assembly

Deliver an IP68-sealed rating.
Prevents ingress of dust and water to ensure reliable connection
Sealed components with proven performance

Offer design flexibility for 3, 5, 7 and 9 circuit needs
Voided circuit options (1.80mm-pitch version)

Avoid seal punctures
Clean-body terminals



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

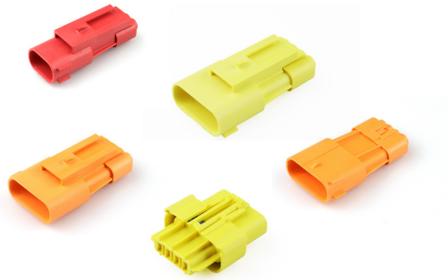


Squba 1.80mm-Pitch Sealed Connector Family, Fully Mated, 2 to 10 circuits, Void Options Available for 3-, 5-, 7- and 9-Circuit Needs, with a Current of up to 6.0A

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FEATURES AND ADVANTAGES

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



*Squba 3.60mm-Pitch Connectors**



Squba 1.80mm-Pitch, Clip-Slot version



Squba 3.60mm-Pitch Connectors

Ensures proper alignment and mating

Colored and keyed connectors options

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

V0 Glow-Wire combination resin

Provides connector stability and security; offers easy assembly for operators

Latch design

Allows connector to securely attach to the panel

Robust clip-slot version is made of automotive-grade fir tree material

Meets customers' need for a UL1230-rated cable in HVAC applications

UL1230-rated cable

*Coming Q4 2023: Squba1.80mm-Pitch Connectors in different colors and keying

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MARKETS AND APPLICATIONS

Consumer

Liquid dispensing equipment
HVAC equipment
Home appliances
Landscaping equipment

Commercial vehicle

ATV
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



Security Systems



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:	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:		
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 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 Plug Assembly	2, 3, 4	Black, Red, Natural, Gray, Yellow, Brown, Orange	UL 1015/UL 1230
207778	Squba 3.6 Plug Assembly	2, 3, 4	Black, Red, Natural, Gray, Yellow, Brown, Orange	UL 1015/UL 1230
207777	Squba 3.6 Receptacle Terminal	-	-	UL 1015/UL 1230 18-20
207776	Squba 3.6 Plug Terminal	-	-	UL 1015/UL 1230 18-20

www.molex.com/link/squba.html