

molex

SQUBA 1.80MM-PITCH SEALED WIRE-TO-WIRE CONNECTOR SYSTEM

Molex developed a miniature, sealed connector system to better protect customers from the risk of moisture and contaminants.

BUSINESS CHALLENGE

The need for compact connectors has grown in recent years as devices have become increasingly smaller and the space available for all the necessary electrical components has become challenging.

With many applications experiencing wet conditions, sealed connectors take on greater importance. However, exposed seals are susceptible to being punctured during assembly, handling, shipping and use. Additionally increases in current also drive the need for larger-gauge wires, compromising compactness and increasing costs. There is a universal desire to draw more power from a smaller, more durable IP68-rated connector system.

SOLUTION

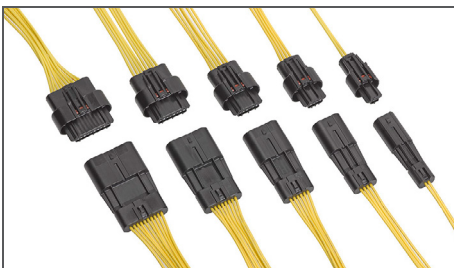
Taking a best-practice approach, Molex delivers a more powerful alternative to the competitive landscape.

Already a market leader when it comes to offering environmentally sealed connectors, Molex leveraged experience to develop a wire-to-wire connector that combines a 6.0A current rating, narrow 1.80mm pitch and IP68 ratings.

The Molex design features a cap to protect the seal from damage during shipping, handling and use. It also provides guidance for terminal insertion to prevent the seal from being punctured during assembly, ultimately making the seal, and the connection itself, more reliable.

A higher performance rating results from the strength of the female contact. Two contact points and two serrations in the conductor crimp area provide better electrical and mechanical performance. A protected, low-profile positive latch prevents wires from getting caught or damaged while minimally adding to the overall connector's package size.

The Squba 1.80mm-Pitch Sealed Wire-to-Wire Connector System is available in 2 to 10 circuits. The operating temperature limits range from -40 to +105°C which addresses a number of applications in the consumer and commercial space, including sensors, lighting, HVAC, liquid dispensers and anywhere IP68 sealing is required.



Squba 1.80mm-Pitch Sealed Wire-to-Wire Connectors

KEY BENEFITS

Reliable power delivery in a wide range of space-constrained applications:

- Delivers IP68 ratings to prevent ingress of dust and water
- Caps protect the seals and lead to more reliable connections
- Miniature size (1.80mm pitch) alleviates space constraints
- Transmits a higher current rating over a smaller gauge wire compared to competitors
- Supports a high operating temperature and current rating

To learn more www.molex.com/link/squba.html

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