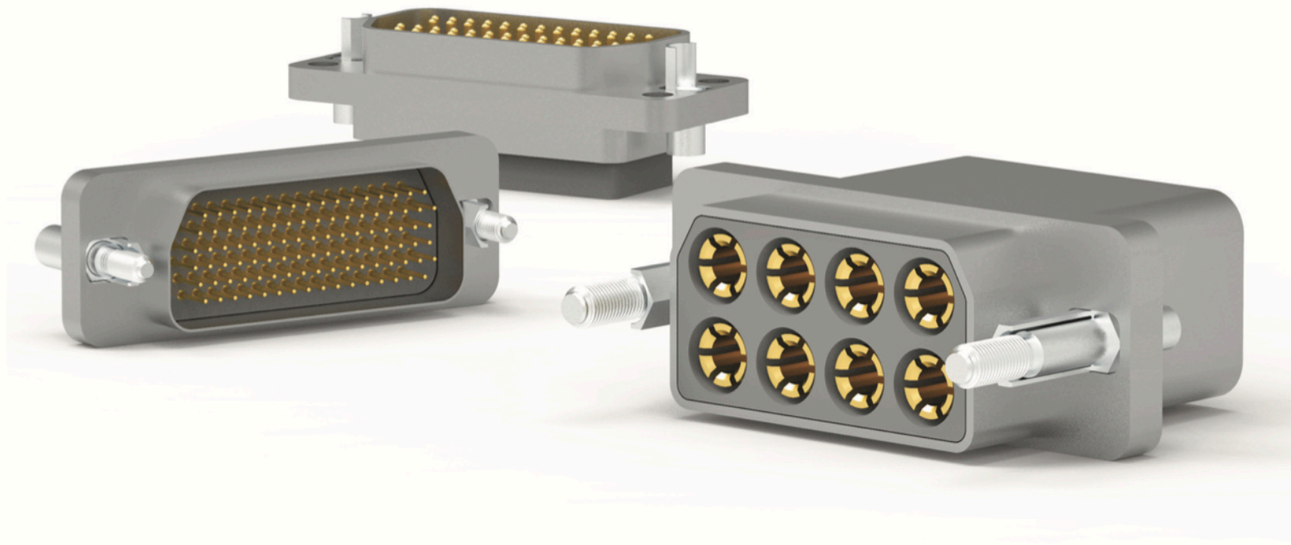
Macro D:

The Rectangular Connector Displacing 38999



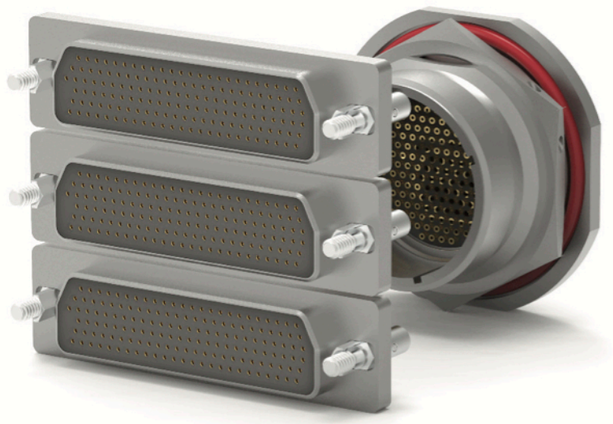
Delivering all of the benefits of a traditional d-shaped connecter in a larger format, AirBorn's RocKet Series Macro-D connector is the latest in D-shaped connectors to hit the military electronics scene.

Designed to allow systems engineers to utilize more contacts in less space than a traditional military circular connector, the RocKet Series allows three Macro-D connectors to fit in the same footprint of a 38999 connector.

"The RocKet Macro-D offers ability for significantly better utilization of available space so the designer bring more signal and/or power into their system in less real estate than a 3899 can offer." explained David Koenig, Product Manager for AirBorn's Rocket Series. ***"using the Rocket family of connectors requires less panel space allowing the user overall electronic box to reduce in size and ultimately saving size, weight and cost."***

Rectangular Means Cost, Weight, and Footprint Savings

When establishing your desired pin count, comparing circular to rectangular connectors often reveals a staggering amount of savings in terms of footprint, weight, — and ultimately cost.



Efficiencies discovered in the beginning design stages always equate to more economical designs on the back end.

It should be noted that circular connectors are required for gloved-hand installations, as used by astronauts in space applications. However, in a military application, that requirement isn't necessary and AirBorn's rectangular RocKet connectors are the solution for space, weight, and cost savings. In the example above, we are able to fit 750, 24 awg. I/O contacts in the same space as 450 I/O contacts, when housed in a circular D38999 body.

Macro Ruggedness & Reliability: Keys to Surviving Harsh Environments

When it comes to durability in the face of unforgiving conditions, RocKet Series connectors always rise to the challenge. Whether enduring the extreme shock and vibration of rocket launches, military aviation, or the intense temperature fluctuations inherent with conditions faced by armored vehicles, RocKet connectors are designed to withstand all of that and much more.

Looking for a rugged and reliable replacement for a D38999 circular, look no further than AirBorn's RocKet family of connectors. With the quality that AirBorn's customers can count on and space-flight heritage, RocKet Series connectors set the standard for Macro D reliability.

Field Proof & Future Proof with Crimp-Removable Contacts

The 38999 specification calls for crimp-removable contacts by definition and you'll find the feature on the RocKet Series Macro-D as well.

Crimp-removable contacts facilitate quick repairs of in the event of a damaged contact or cable assembly without sacrificing the entire connector. The contact can simply be replaced making it ideal field repairs while deployed abroad.

The removable contact style also allows easy upgrades to electronic systems without overhauling the entire BUS system.

"While crimping is often preferred for high vibration environments or where ultra-reliability is mission critical, it also makes sense in military applications that may have several generations of upgraded electronics," said Robert Kleinschmidt, vice president for AirBorn's military and defense business. ***"The removable contact allows existing wiring to be upgraded without having to tear out the entire bus system. It's a flexible, yet rugged contact system for the defense market. "***

Widely known for its vast range of Micro D and Nano D connectors, AirBorn introduced the Macro D connector to the defense market after the rugged connector format launched into popularity within the Space Industry.

"When you look at the requirements of military and space electronics systems there's quite a bit of overlap when it comes to shock and vibration specifications," Kleinschmidt explained. ***"When we saw satellite engineers looking for alternatives to 38999, we realized the cost, space and weight savings that come with Macro D were also very appealing to design engineers at our military customers.***

While the 38999 will still be necessary for certain applications the Macro D connector offers designers a way to reduce the physical size of their system without sacrificing ruggedness or reliability.

AirBorn

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