



AIRBORN HIGH-RELIABILITY
INTERCONNECTS

M SERIES (MICRO-D)

0.050" (1.27mm)

Our microminiature connectors are popular due to their rugged design and customization ease. Available in I/O, straight, right-angle & SMT board-mount models.

KEY FEATURES:

- 200 mating cycles
- Current rating 3 Amps
- Operating Temperatures
-55° to +125°C (205°C for HT)
- 30 and 24 AWG
- 4-128 Contacts
- 1, 2, 3, or 4 Rows
- Metal & plastic body material
- Qualified to MIL-DTL-83513
- PTH, SMT, pre-wired, & solder-cup termination options

MSeries



COMMON APPLICATIONS:

- Avionics and flight control units.
- Radar systems and engine controllers.
- Missile systems, UAVs and unmanned vehicles.
- Head-mounted displays, robotics and other rugged military/defense electronics.

N SERIES (NANO-D)

0.025" (0.636mm)

Our nanominiature connectors are ideal for applications where reduced size & weight are essentials. Available in I/O, straight, right-angle & SMT board-mount models.

KEY FEATURES:

- 200 mating cycles
- Current rating 1 Amps
- Operating Temperature -55° to +125°C
- 32 and 30 AWG
- 9-91 Contacts
- 1-2 Rows
- Metal body material
- Qualified to MIL-DTL-32139
- PTH, SMT, & pre-wired termination options

NSeries



COMMON APPLICATIONS:

- Size- and weight-constrained systems: small satellites (CubeSats), UAVs and missiles.
- Medical devices and harsh industrial environments where miniaturization + ruggedness are required.
- Board-mount and I/O in tightly packed PCBs and cable harnesses (vertical, right-angle, SMT/PTH options).

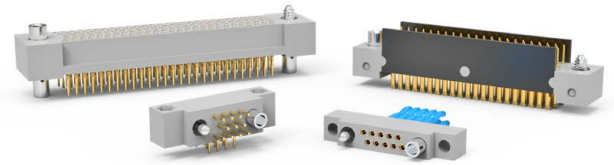
R SERIES (rectangular PCB / high-density PCB connectors)

0.075" (1.905mm)

R-Series offers a diverse range of high-density, high-reliability connector options for use in tough, mission-critical designs. Ideal for avionics, space exploration, GPS, deep-sea exploration applications and more. Available in I/O, connector saver, SMT, straight, and right-angle board-mount models.

KEY FEATURES:

- 500 mating cycles
- Current rating 3 Amps
- Operating temperature -65° to +125°C
- 30 and 20 AWG
- Polarized and jacking mating hardware
- 10-604 Contacts
- 2, 3, 4, or 6 Rows
- Plastic body material
- Qualified to MIL-DTL-55302
- Crimp removable, plated thru-hole, press-fit compliant, single-layer flex, solder-cup, stackable, & SMT termination options



R Series

COMMON APPLICATIONS:

- High-density, space-saving PCB interconnects for flight and other harsh-environment electronics (widely used in flight applications).
- Satellite and space systems as part of AirBorn's flight-heritage product set.

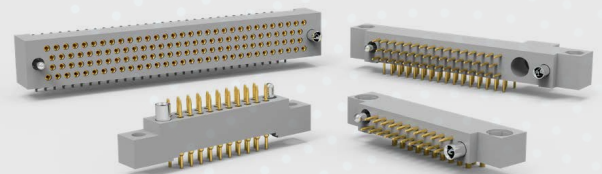
W SERIES (rectangular PCB connectors)

0.100" (2.540mm)

AirBorn's "flagship" W Series connector maintains the original .100" contact spacing. Designed into countless applications where reliability is paramount such as with missiles, helicopters, torpedoes, and armored vehicles. Available in I/O, connector saver, straight, and right-angle board-mount models.

KEY FEATURES:

- 500 mating cycles
- Current rating 5 Amps power up to 23A
- Operating temperature -65° to +125°C
- 22 and 20 AWG
- 3-208 Contacts
- 1, 2, 3, 4, or 6 Rows
- Plastic body material
- Qualified to MIL-DTL-55302
- Crimp removable, plated thru-hole, single-layer flex, solder-cup, SMT, & wire wrap termination options



W Series

COMMON APPLICATIONS:

- Military & defense and rugged aerospace PCB interconnects (MIL-qualified use in flight systems).
- Commercial aircraft and other transport / heavy equipment systems that need durable rectangular board connectors.

VER SI (verSI / verSI family — high-speed, signal-integrity rectangular connectors)

0.050" (1.27mm)

The verSI open-pin field product line is designed to meet the requirements for high-speed/signal integrity applications with speeds up to 25 Gbps.

KEY FEATURES:

- 1500 mating cycles
- Current rating 2 Amps
- Operating Temperature -65° to +125°C
- 24 to 30 AWG pre-terminated wire availability
- Polarized and jacking mating hardware
- open field
- Differential pair and single-ended
- 10-500 Contacts
- 2, 4, 5, 6, 8 or 10 Rows
- Metal & plastic body material
- Press-fit, paste-in-hole, plated thru-hole, pre-wired
- jumper cable & flex jumper termination options



COMMON APPLICATIONS:

- High-speed, high-density board I/O for avionics, satellites, helicopters and commercial aircraft.
- Space, medical (MRI), radar, missiles and other systems requiring signal integrity and rugged performance (used where temperature/vibration/shock are extreme).



MORE INFORMATION



Please look at our Website
avnet-abacus.eu/molex

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