





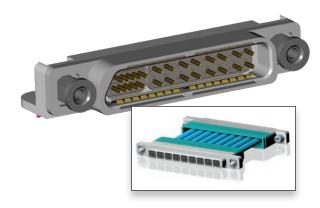


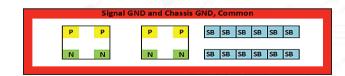




MQB-A

## Micro-D 1394 IEEE 1394, Ethernet MIL-DTL-83513 Connectors





The microQUAD connector line is designed to meet requirements for Signal Integrity IEEE 1394 Ethernet applications, while still delivering reliability customers have come to expect from AirBorn.

MicroQUAD provides design flexibility by offering vertical and right-angle board mounts plus cable I/O configurations. MicroQuad is designed to handle high-speed LVDS like Ethernet 100  $\Omega$  differential Quadrex. The MIL-DTL-83513 (Micro-D) qualified contact system and metal shells ensure ruggedness and durability. MicroQUAD ranges from 1-10 high-speed modules and up to 50 signal contacts.

### Features & Benefits

- 9 sideband connections included
- Balanced lengths within pairs limit skew
- Field-tested: four independent tine, gold-plated contact system offers superior performance and reliability
- Rugged metal shells and hoods
- Shell-to-shell EMI interface gasket
- · Shell ground independent of signal pair grounds
- Versatile product offering includes both genders of vertical, right-angle board, and cable



#### Materials

Differential Impedance Per Quad Module
Wire Size: for both Quad and Signal
Signal Contact Rating
Test Voltage
Operating Temperature55°C to +125°C Insulation Resistance
Insulation Resistance
Durability 500 connector mating cycles
Vibration
Shock
Salt Spray
Humidity
Thermal Shock Tested to the temperature extremes of MIL-STD-1344, Method 1003, Test Condition A (except step 3, temperature shall be 125°C)
Contact Resistance
Contact Engaging Force
Contact Separating Force
Contact Separating Force



# ::Micro@UAD



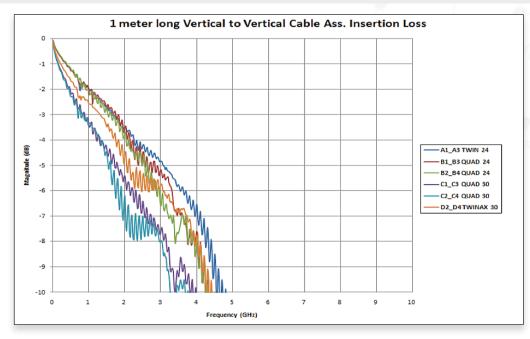




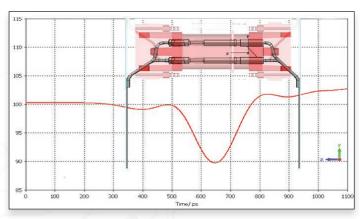


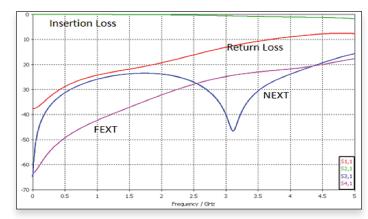


## SI Performance for Mated Pairs



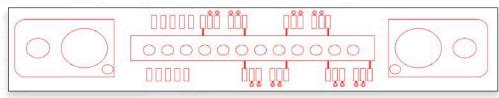






Impedance Profile

5 Parameters



Typical PCB Footprint for Vertical Connector



Typical PCB Footprint for Right-Angle Connector