



## Performance Reference MIL-DTL-83513

AirBorn "M" Series meets or exceeds MIL-DTL-83513 Performance Specifications

|                                     |                                                                                                                                |
|-------------------------------------|--------------------------------------------------------------------------------------------------------------------------------|
| <b>Contact Rating:</b>              | 3-amperes maximum                                                                                                              |
| <b>Solderability:</b>               | Terminals (except crimp) tested in accordance with MIL-STD-202, Method 208                                                     |
| <b>Wire Size:</b>                   | Stranded #26 AWG or solid #25 AWG standard (consult factory for other sizes and types)                                         |
| <b>Test Voltage:</b>                | 600 V, RMS, 60 Hz                                                                                                              |
| <b>Operating Temperature:</b>       | -55° C to +125° C                                                                                                              |
| <b>Insulation Resistance:</b>       | 5,000 megohms minimum @ 500 VDC                                                                                                |
| <b>Durability:</b>                  | 500 connector mating cycles                                                                                                    |
| <b>Vibration:</b>                   | Tested in accordance with MIL-STD-1344, Method 2005, Condition IV, according to MIL-83513                                      |
| <b>Shock:</b>                       | Tested in accordance with MIL-STD-1344, Method 2004, Condition E, according to MIL-83513                                       |
| <b>Salt Spray:</b>                  | Mated connectors tested in accordance with MIL-STD-1344, Method 1001, Test Condition B                                         |
| <b>Humidity:</b>                    | Mated connectors tested in accordance with MIL-STD-1344, Method 1002, Type II (except steps 7a and 7b)                         |
| <b>Thermal Shock:</b>               | Tested to the temperature extremes of MIL-STD-1344, Method 1003, Test Condition A (except step 3, temperature shall be 125° C) |
| <b>Contact Resistance:</b>          | 0.065 volt maximum drop @ 2.5 amps (.026 ohms)                                                                                 |
| <b>Contact Engaging Force:</b>      | 6.0 ounce maximum, with .0221 diameter test sleeve per contact                                                                 |
| <b>Contact Separating Force:</b>    | 0.5 ounce minimum, with .0230 diameter test sleeve per contact                                                                 |
| <b>Crimp Strength:</b>              | 5 pound minimum tensile strength                                                                                               |
| <b>Mating &amp; Unmating Force:</b> | 10 ounces maximum per contact                                                                                                  |