



M-Series

AirBorn offers the widest range of Micro-Miniature connectors available in the market today. Featuring a contact spacing of 0.050" (1.27mm) and Mil-DTL-83513 qualification, the range offers an extensive mix of termination styles and custom design capability.

M Series

Mil-DTL-83513 CONNECTORS 0.050" (1.27mm)

AirBorn M-Series meets or exceeds MIL-DTL-83513 performance specifications

(for full specification details please consult website)

Performance;

Contact Rating;	3 Amperes maximum
Solderability;	Terminals (except crimp) tested in accordance with Mil-STD 202
Wire Size;	stranded 26AWG or Solid 25awg as standard. (for others consult factory)
Test Voltage;	600v RMS, 60Hz
Operating Temperature;	-55c to +125c
Insulation Resistance;	5,000 megohms minimum at 500vdc
Durability;	500 connector mating cycles
Vibration;	Tested in accordance with MIL-STD1344
Shock;	Tested in accordance with MIL-STD1344
Salt Spray;	Tested in accordance with MIL-STD1344
Humidity;	Tested in accordance with MIL-STD1344
Thermal Shock;	Tested to the temperature extremes of MIL-STD1344
Contact Resistance;	Contact Resistance; 0.065 volt maximum drop @2.5amps (0.26ohms)
Contact Engaging Force;	6.0 ounce maximum, with .0221 diameter test sleeve per contact
Contact Separating Force;	0.5 ounce minimum, with .230 diameter test sleeve per contact
Crimp Strength;	5 pound minimum tensile strength
Mating & Unmating Force;	10 ounces maximum per contact

Materials and Finishes.

Contacts;	Pins= BeCu alloy strip Sockets= Brass
Contact Finish;	Gold Plate
Shells;	Aluminium Alloy or Passivated Stainless Steel
Aluminium Shell Finishes;	Electroless Nickel, Electrodeposited Cadmium, Black Anodized
Moulded Insulators;	Glass filled Polyphenylene Sulfide
Hardware;	Jack screws, Jackposts,, nuts, clips, washers,guide pins all corrosion resistant steel
Latches;	Beryllium Copper with Electroless Nickel plate.
Interfacial Sealing Gaskets;	Fluorosilicone

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