

Right Angle .050 X .100 (Style 2) Connectors

Winchester Interconnect Micro, formerly known as Ulti-Mate Connector, offers Right Angle .050 x .100 (Style 2) Connectors – a ruggedized replacement for commercial Micro-D right-angle plugs. Designed with a machined metal shell and epoxy-sealed potting well, these connectors provide enhanced durability and contact retention. With a 3A max current rating and 8 milliohms max contact resistance, they deliver reliable performance in demanding environments. Ideal for mission-critical interconnect applications where reliability and precision are essential.

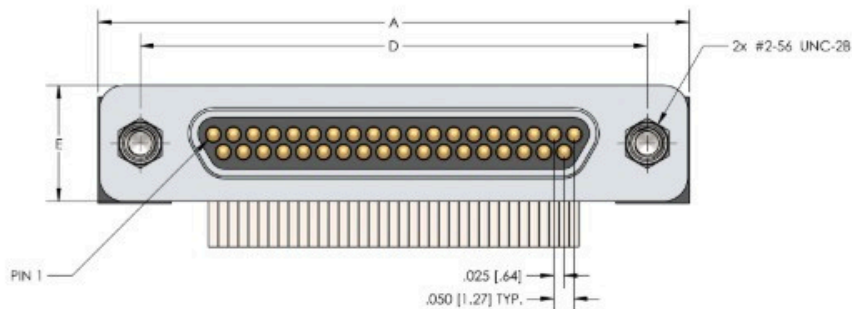


KEY FEATURES & BENEFITS

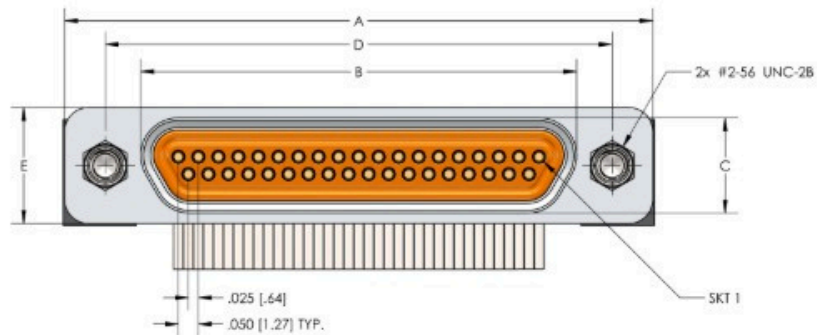
- Ruggedized Design – Machined metal shell ensures superior mechanical strength.
- Epoxy-Sealed Potting Well – Provides excellent environmental sealing and strain relief.
- Reliable Electrical Performance – 3A max current rating and 8 mΩ contact resistance.
- High Voltage Capability – Withstands 600 VAC at sea level and 150 VAC at 70,000 ft.
- MIL-DTL-83513 Compatibility – Meets stringent Micro-D performance standards.
- Compact Right-Angle Profile – Saves space in dense electronic assemblies.
- Enhanced Contact Retention – Prevents loosening under vibration or stress.
- Proven Dependability – Designed for high-reliability aerospace and defense systems.
- Customizable Options – Available in multiple contact counts and configurations.

Micro-D PCB Right Angle .050 X .100 (Style 2)

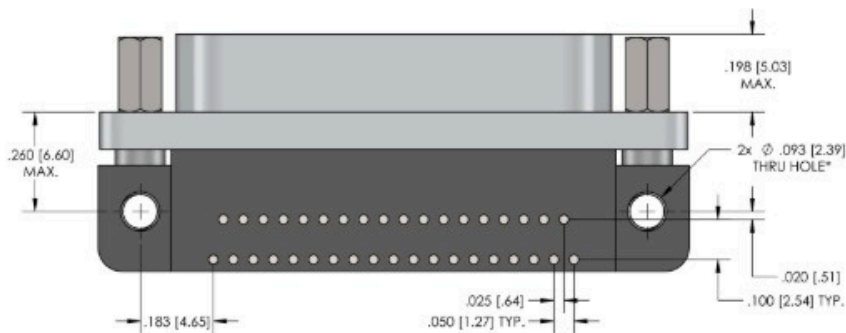
DIMENSIONAL



FRONT VIEW - PLUG (PINS)



FRONT VIEW - RECEPTACLE (SOCKETS)



BOTTOM VIEW - RECEPTACLE
SIZE 9 THRU 37

*#2-56 THREADED INSERTS AVAILABLE IN PLACE OF THRU HOLES

NOTE: SHELL MAY BE GROUNDED THROUGH CHASSIS OR PC BOARD

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PERFORMANCE

Electrical Properties	
Contact Resistance	8 millihom max contact only + any solid lead resistance (depends on wire AWG) @ 2.5A
Current Rating	3A max.
Dielectric WithStanding Voltage	600 VAC at sea level, 150 VAC at 70,000 feet. 1mA leakage current max.
Insulation Resistance	500 VDC and 5000 Megohms min.

Mechanical Properties	
Engaging Force	6 oz max. (Signal contacts only, no data for Power or Coax contacts)
Separation Force	.5 oz. min. (Signal contacts only, no data for Power or Coax contacts)
Mating/Unmating Force	10 oz x # of contacts max. (Signal contacts only, no data for Power or Coax contacts)
Vibration	EIA-364-28 Condition IV, 1 microsecond max discontinuity
Shock	EIA-364-27 Condition E, 1 microsecond max discontinuity
Durability	500 matings, passes Mating Force, CR, Eng and Sep Forces
Salt Spray	EIA 364-26 Condition B-48 hours

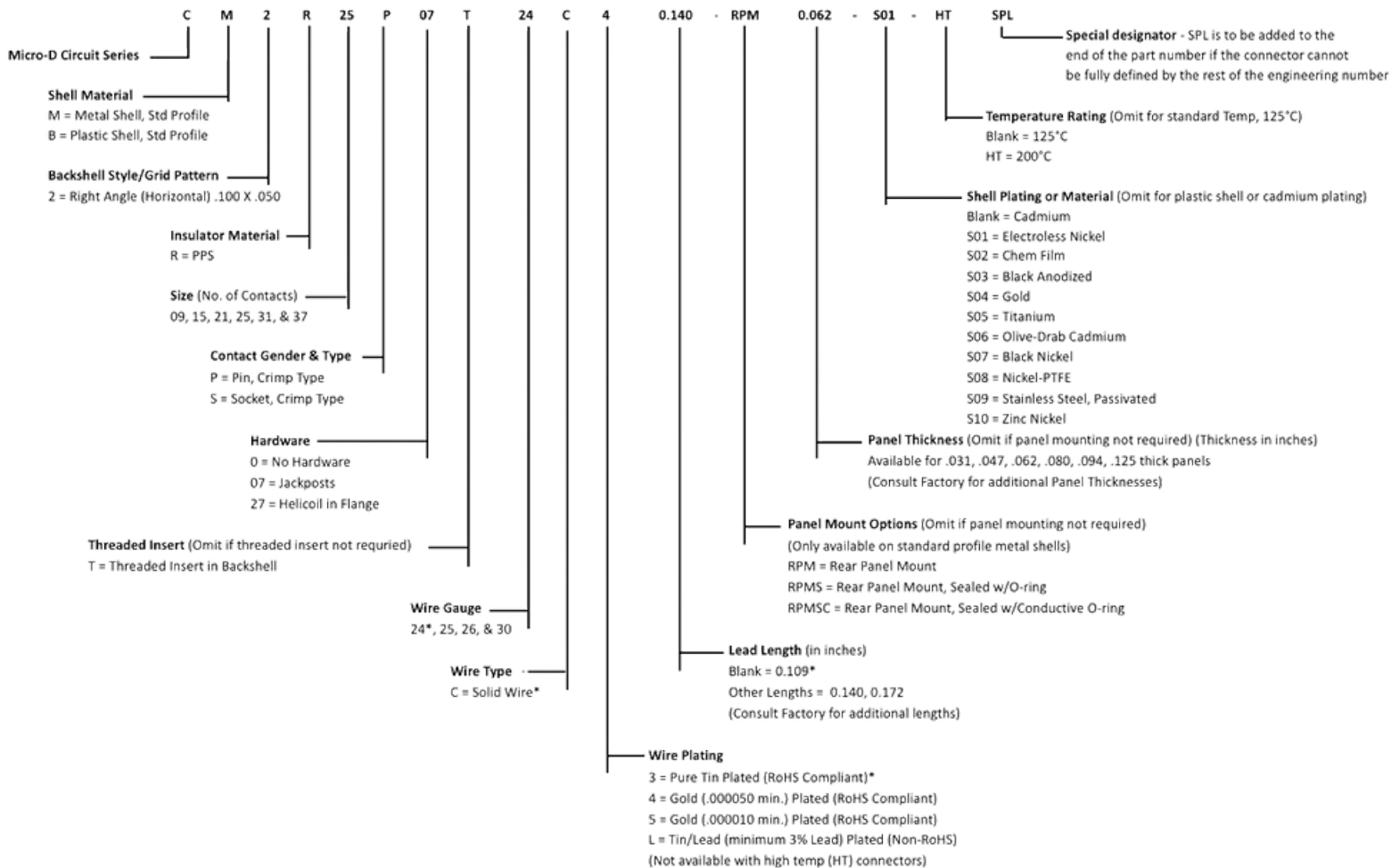
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MATERIALS

Materials and Finishes	
Signal Pin Contacts	C17200 Beryllium Copper per ASTM B194
Signal Socket Contacts	C21000 Brass Alloy per ASTM B36
Contact Plating	.000050 Thk Gold Plating per ASTM B488
PC Tails	Copper Wire per A-A-59551 Type S
PC Tail Plating	.000320 min thk Tin plating per ASTM B545, or .000300 min thk Tin/Lead with minimum 3% lead plating per SAE-AMS-P-81728, or .000010 thk Gold plating per ASTM B488
Shell	6061-T6 Aluminum per SAE-AMS-QQ-A200/8 or Passivated 300 Series Stainless Steel
Shell Plating	Electroless Nickel per AMS 2404 or Cadmium Plated per SAE-AMS-QQ-P-416
Insulator Material	Polyphenylene Sulfide (PPS) Per MIL-M-24519 GST-40F
Hardware	Passivated Stainless Steel Per MIL-DTL-83513/05
Interfacial Seals	Fluorosilicone per MIL-R-25988 (Std Profile Receptacles only)

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HOW TO ORDER



*For 24 AWG, Pure Tin Plated, 0.109 Length Leads this section of the part number may be omitted