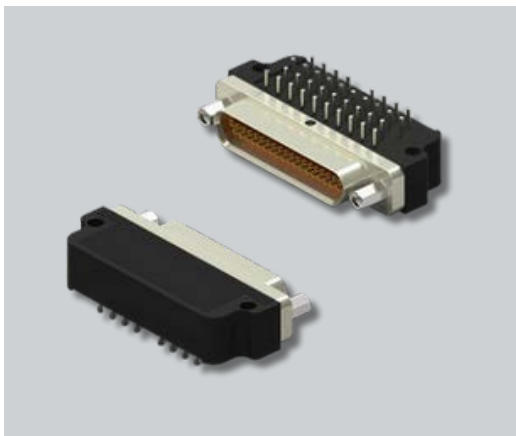


Right Angle .100 X .100 (Style 1) Connectors

Winchester Interconnect Micro offers Right Angle .100 x .100 (Style 1) Connectors designed for a variety of PCB applications. This Style 1 (CBR) connector is a reliable, condensed right-angle mount with 90° termination exit leads on a .100 x .100 grid. It features mounting thru holes with optional jackposts for jackscrews and meets MIL-DTL-83513 slash sheets 10-15 for the "M" series.

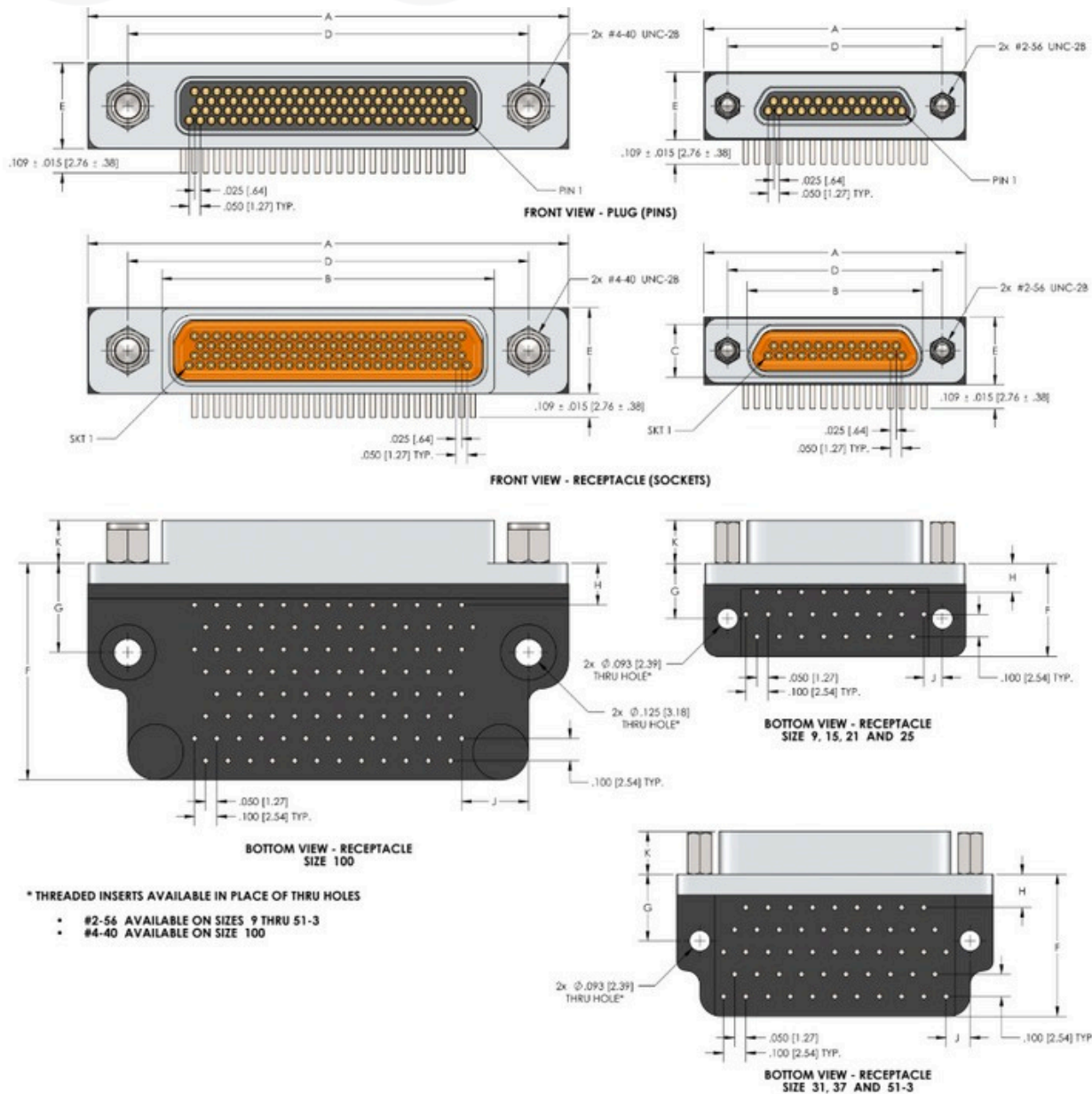


KEY FEATURES & BENEFITS

- Condensed Right-Angle Design – 90° termination exit leads on a .100 x .100 grid.
- Mounting Versatility – Thru holes and optional jackposts for jackscrew use.
- MIL-DTL-83513 Qualified – Complies with slash sheets 10-15 for the "M" series.
- Low Contact Resistance – 8 milliohms max for efficient power transmission.
- High Current Capacity – Rated up to 3A max at room temperature.
- Strong Electrical Integrity – 600 VAC at sea level, 150 VAC at 70,000 ft dielectric withstand.
- Reliable Insulation – 5000 MΩ minimum at 500 VDC for consistent performance.
- Rugged and Proven – Ensures long-term reliability in demanding PCB applications.

Micro-D PCB Right Angle .100 X .100 (Style 1)

DIMENSIONAL



Size	A Max.	D +/- .005	E Max./ M & B	E Max. / A & P	F Max.	G +/- .010	H +/- .010	J +/- .005
9	.785 (19.94)	.565 (14.35)	.310 (7.87)	.218 (5.54)	.425 (10.80)	.250 (6.35)	.230 (5.84)	.083 (2.11)
15	.935 (23.75)	.715 (18.16)	.310 (7.87)	.218 (5.54)	.425 (10.80)	.250 (6.35)	.130 (3.30)	.108 (2.74)
21	1.085 (27.56)	.865 (21.97)	.310 (7.87)	.218 (5.54)	.425 (10.80)	.250 (6.35)	.130 (3.30)	.083 (2.11)
25	1.185 (30.10)	.965 (24.51)	.310 (7.87)	.218 (5.54)	.425 (10.80)	.250 (6.35)	.130 (3.30)	.083 (2.11)
31	1.335 (33.91)	1.115 (28.32)	.310 (7.87)	.218 (5.54)	.525 (13.34)	.250 (6.35)	.130 (3.30)	.158 (4.01)
37	1.485 (37.72)	1.265 (32.13)	.310 (7.87)	.218 (5.54)	.525 (13.34)	.250 (6.35)	.130 (3.30)	.183 (4.65)
51-3	1.435 (36.45)	1.215 (30.86)	.351(8.92)	.260 (6.60)	.660 (16.76)	.300 (7.62)	.150 (3.81)	.108 (2.74)
100	2.165 (54.99)	1.800 (45.72)	.394 (10.01)	N/A	1.010 (25.65)	.400 (10.16)	.200 (5.08)	.275 (6.98)

Micro-D PCB Right Angle .100 X .100 (Style 1)

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

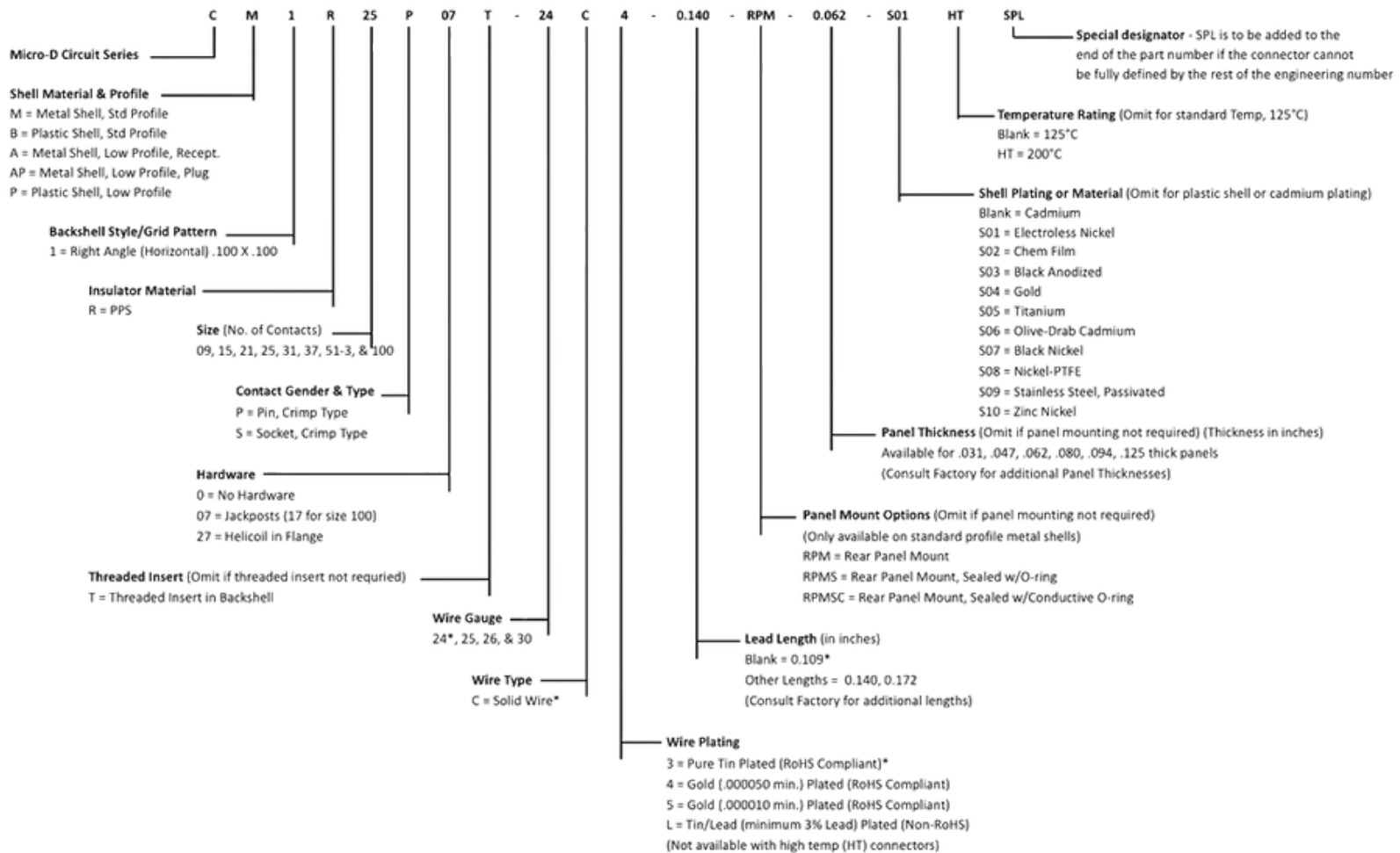
Micro-D PCB Right Angle .100 X .100 (Style 1)

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)

Micro-D PCB Right Angle .100 X .100 (Style 1)

HOW TO ORDER



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