

Vertical Angle .075 X .075 (Style 7) Connectors

Winchester Interconnect Micro offers Vertical Angle .075 X .075 (Style 7) Connectors. Style 7 is a condensed footprint vertical connector designed to fit circuit board applications, providing a compact and efficient interconnect solution. This connector utilizes the same condensed footprint as Style 17 and is recommended as a drop-in replacement for the MR75 series industry standard. Spacing between rows and between contacts in any one row is 0.075 on the 9 through 100 layouts.

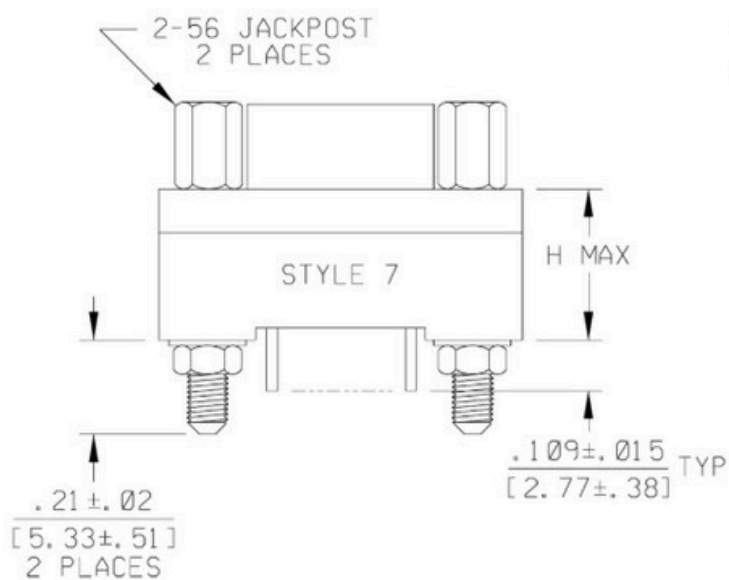
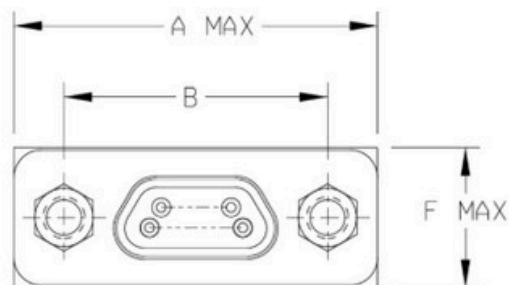


KEY FEATURES & BENEFITS

- Condensed Footprint Design – Optimized for circuit board applications.
- Vertical Mount Configuration – Ideal for compact PCB layouts.
- MR75 Series Compatible – Drop-in replacement for the industry standard.
- Uniform Spacing – 0.075 between rows and contacts on 9–100 layouts.
- Space-Saving Solution – Compact form factor for high-density designs.
- Reliable Performance – Ensures consistent connectivity in demanding environments.

Micro-D PCB Vertical Angle .075 X .075 (Style 7)

DIMENSIONAL



Size	A Max.	B Nom.	C Max.	F Max.	H Max.
9	.785 (19.94)	.565 (14.35)	.400 (10.16)	.310 (7.87)	.330 (8.38)
15	.935 (23.75)	.715 (18.16)	.550 (13.97)	.310 (7.87)	.330 (8.38)
21	1.085 (27.56)	.865 (21.97)	.700 (17.78)	.310 (7.87)	.330 (8.38)
25	1.185 (30.10)	.965 (24.51)	.800 (20.32)	.310 (7.87)	.330 (8.38)
31	1.335 (33.91)	1.115 (28.32)	.950 (24.13)	.310 (7.87)	.330 (8.38)
37	1.485 (37.72)	1.265 (32.13)	1.100 (27.94)	.310 (7.87)	.330 (8.38)
51-3	1.435 (36.45)	1.215 (30.86)	1.045 (26.54)	.400 (10.16)	.345 (8.76)

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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

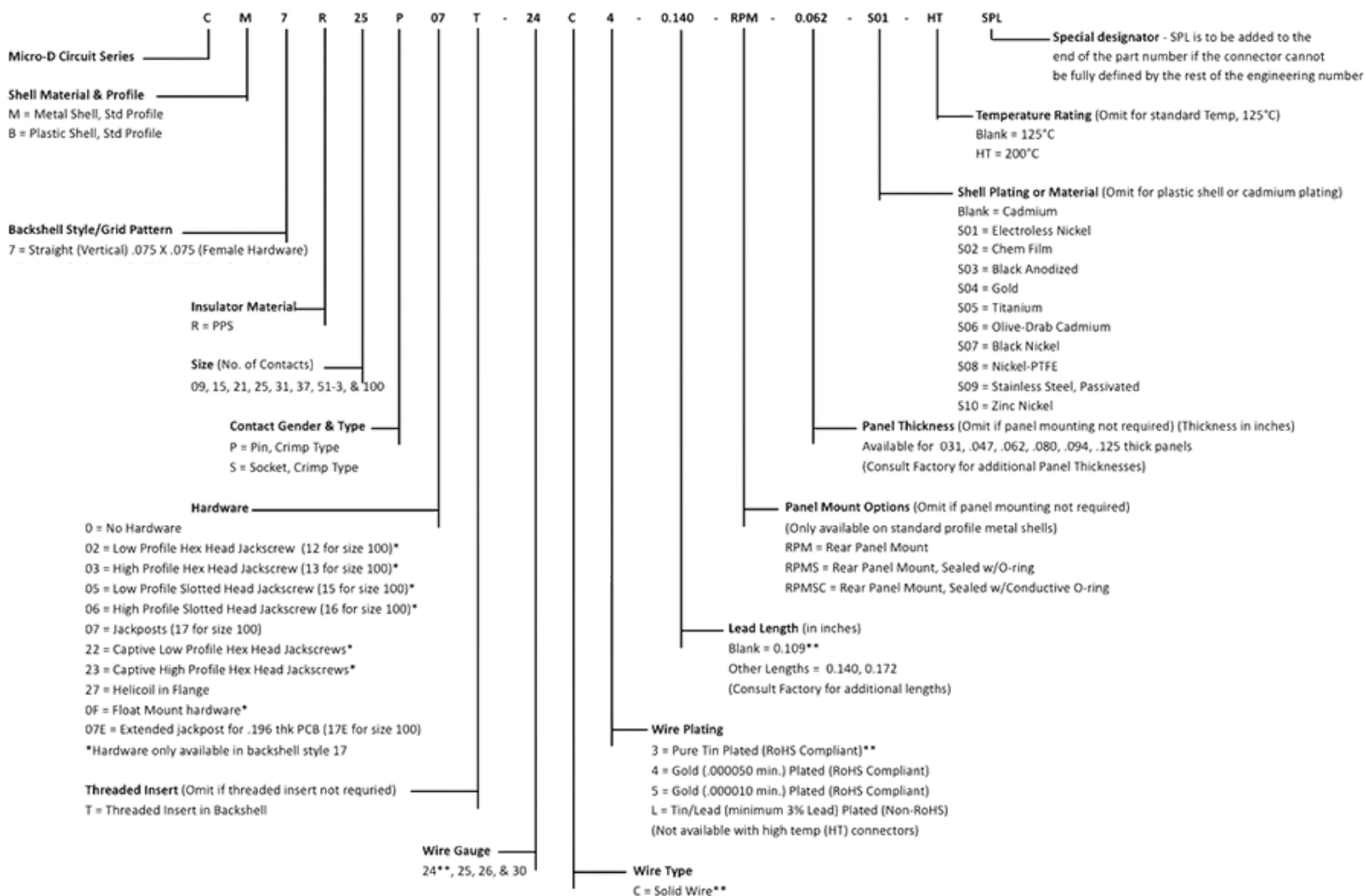
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MATERIALS

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