

Low Profile Plastic Shell Connectors

Winchester Interconnect Micro offers Low Profile Plastic Shell Connectors—compact, high-quality solutions for demanding environments. These environmentally sealed connectors operate from -55°C to $+125^{\circ}\text{C}$, with high-temperature versions available up to $+200^{\circ}\text{C}$ (HT). They provide reliable engagement with a 6 oz max engaging force, 0.5 oz min separation force, and 10 oz $\times$ # of contacts max mating/unmating force. Tested per EIA-364-28 for vibration and EIA-364-27 for shock, they ensure durability under extreme conditions.

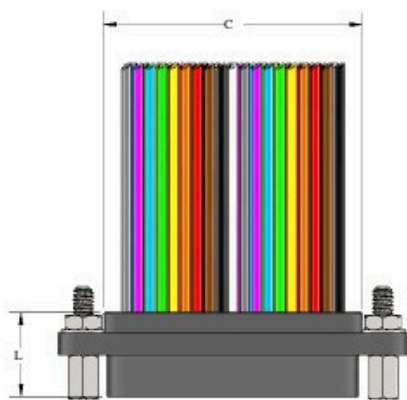


KEY FEATURES & BENEFITS

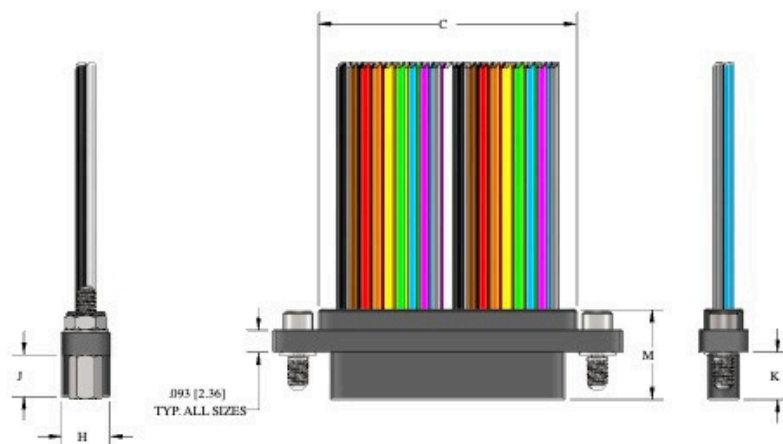
- Compact, Lightweight Design – Ideal for space-limited applications.
- Sealed Construction – Protects against moisture and harsh environments.
- Wide Temperature Range – Operates from -55°C to $+125^{\circ}\text{C}$; HT versions to $+200^{\circ}\text{C}$.
- Reliable Mating Performance – 6 oz max engaging, 0.5 oz min separation force.
- Durable Mechanism – 10 oz $\times$ # of contacts max mating/unmating force.
- Tested for Reliability – Meets EIA-364-28 (vibration) and EIA-364-27 (shock) standards.
- High-Quality Construction – Engineered for consistent performance and longevity.

Micro-D Wired LPPS

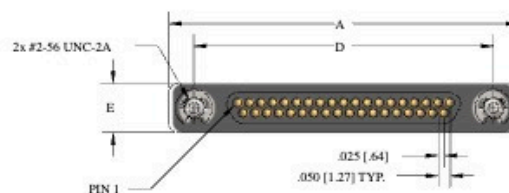
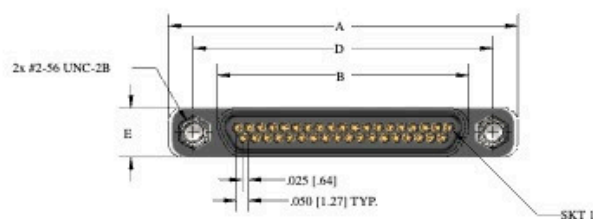
DIMENSIONAL



RECEPTACLE (SOCKETS)

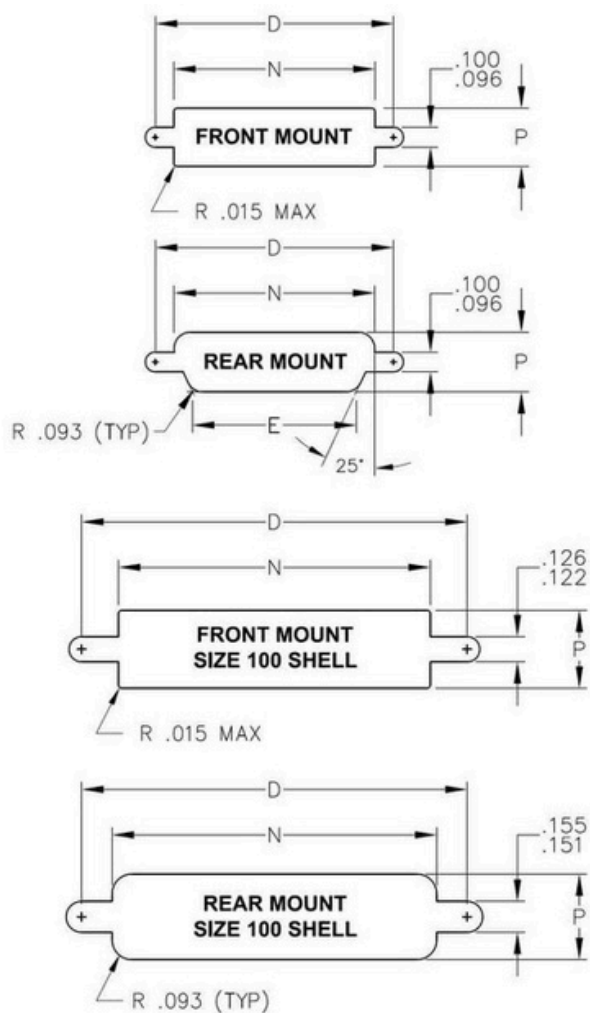


PLUG (PINS)



Size	A Max.	B Max.	C Max.	D Nom.	E Max.	J Max.(Skt)	L Max.(Skt)	M Max.(Pin)
A&P Series								
9	.785(19.94)	.376(9.55)	.395(9.98)	.565(14.35)	.218(5.54)	.182(4.62)	.375(9.57)	.395(10.03)
15	.935(23.75)	.526(13.36)	.545(13.79)	.715(18.16)	.218(5.54)	.182(4.62)	.375(9.57)	.395(10.03)
21	1.085(27.56)	.693(17.17)	.695(17.60)	.865(21.97)	.218(5.54)	.182(4.62)	.375(9.57)	.395(10.03)
25	1.185(30.10)	.776(19.71)	.795(20.14)	.965(24.51)	.218(5.54)	.182(4.62)	.375(9.57)	.395(10.03)
31	1.335(33.91)	.926(23.52)	.945(23.95)	1.115(28.32)	.218(5.54)	.182(4.62)	.375(9.57)	.395(10.03)
37	1.485(37.72)	1.076(27.33)	1.095(27.76)	1.265(32.13)	.218(5.54)	.182(4.62)	.375(9.57)	.395(10.03)
51-3	1.435(36.45)	1.026(26.06)	1.045(26.44)	1.215(30.86)	.254(6.45)	.182(4.62)	.375(9.57)	.395(10.03)

PANEL



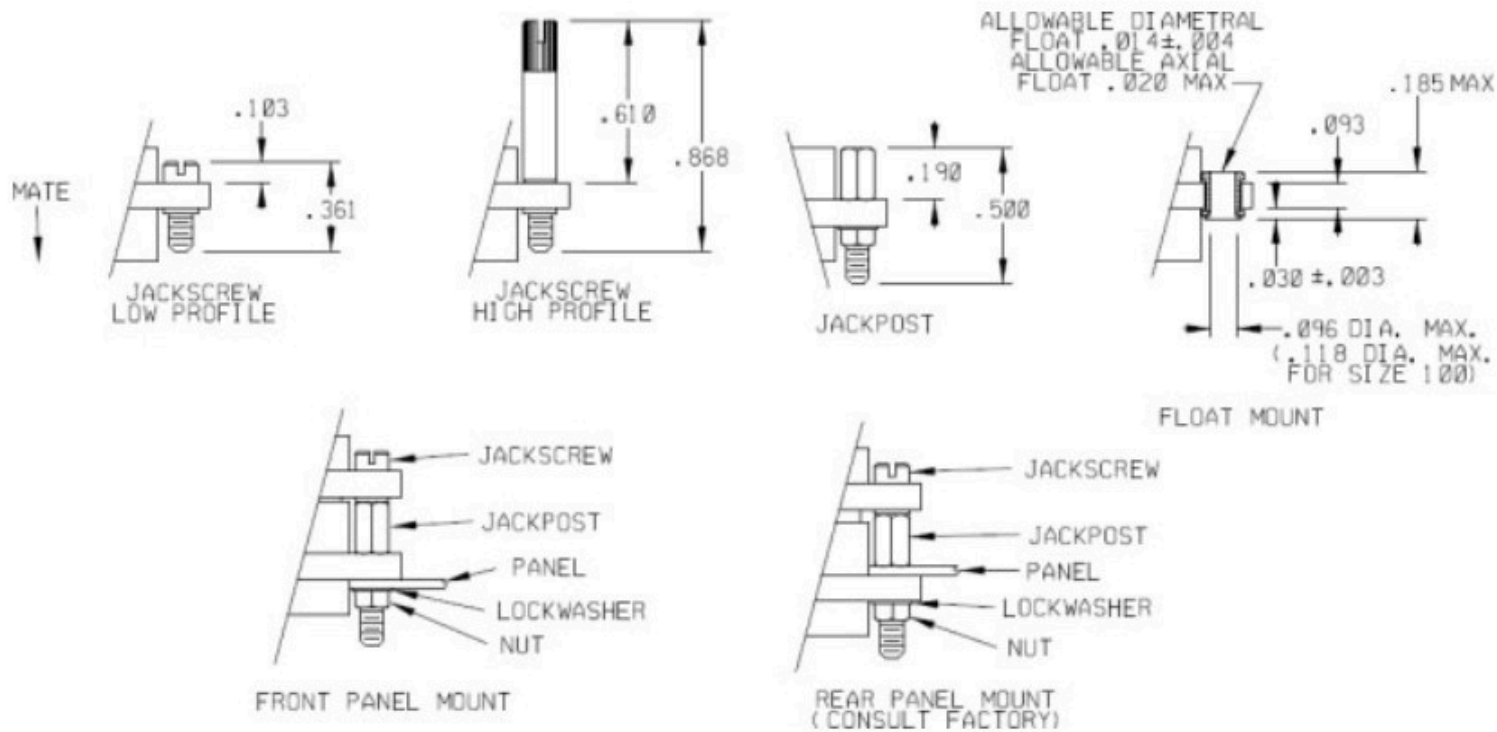
Panel Cut-Out Dimensions					
Size	D	N		P	
		Front Mount	Rear Mount	Front Mount	Rear Mount
9	.565	.400	.405	.280	.265
15	.715	.550	.555	.280	.265
21	.865	.700	.705	.280	.265
25	.965	.800	.805	.280	.265
31	1.115	.950	.955	.280	.265
37	1.265	1.100	1.105	.280	.265
51-3	1.215	1.046	1.057	.320	.305

PERFORMANCE

Electrical Properties	
Contact Resistance	8 milliohm max contact only and 32 milliohms max with 6" wire @ 2.5A at room temperature
Current Rating	3A max. at room temperature
Dielectric WithStanding Voltage	600 VAC at sea level, 150 VAC at 70,000 feet. 1mA leakage current max. at room temperature
Insulation Resistance	500 VDC and 5000 Megohms min. at room temperature

Mechanical Properties	
Engaging Force	6 oz max.
Separation Force	.5 oz min.
Mating/Unmating Force	10 oz x # of contacts max.
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

HARDWARE

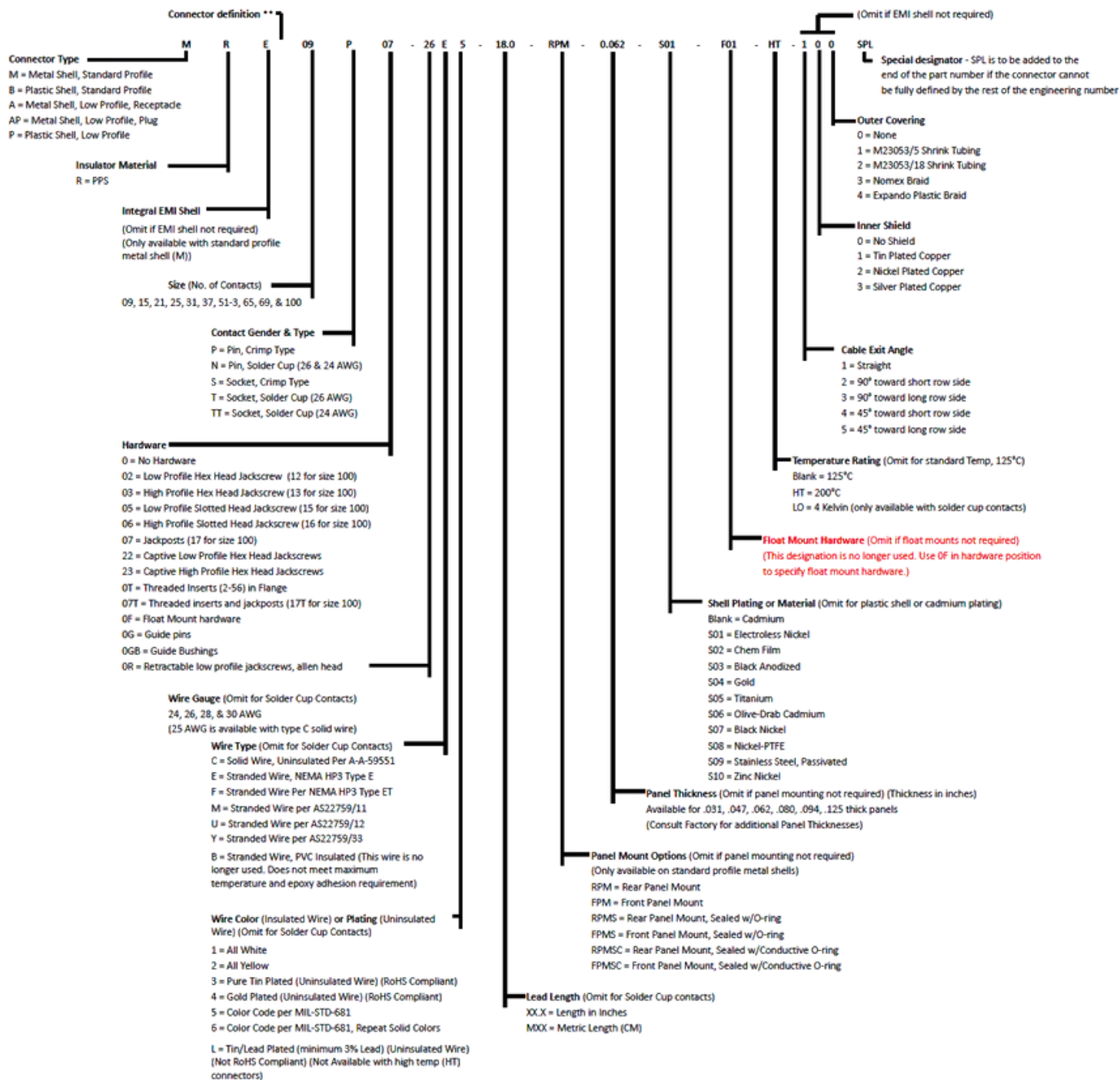


MATERIALS

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
Shell	Polyphenylene Sulfide (PPS) Per MIL-M-24519 GST-40F
Insulator Material	Polyphenylene Sulfide (PPS) Per MIL-M-24519 GST-40F
Hardware	Passivated Stainless Steel Per MIL-DTL-83513/05

Micro-D Wired LPPS

HOW TO ORDER



** For double ended assemblies, include connector definition for both ends separated by a forward slash (/)
Excludes Integral Shell assemblies (Option "E")