

Low Profile Plastic Shell Connectors

Winchester Interconnect Micro offers Low Profile Plastic Shell Solder Cup Connectors designed for high performance and environmental sealing. These reliable connectors feature solder cup contacts within a durable plastic shell and operate from -55°C to $+125^{\circ}\text{C}$, with high-temperature versions available up to $+200^{\circ}\text{C}$ (HT). Available in 9 to 51 contact configurations for 24 AWG wire, they use C17200 Beryllium Copper signal pins, C31400 Bronze Alloy sockets, and .000050 Thk Gold plating for superior conductivity.

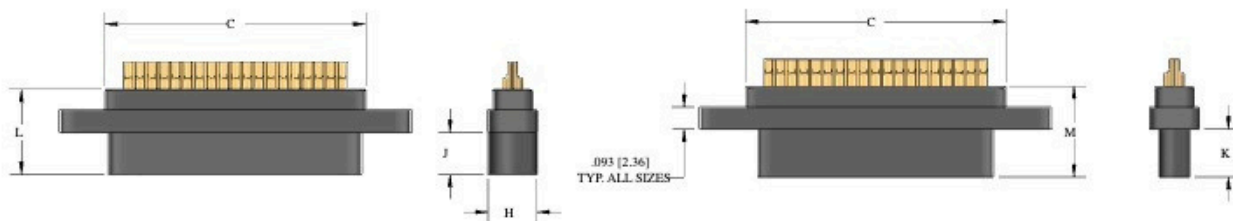


KEY FEATURES & BENEFITS

- Low Profile Design – Compact plastic shell ideal for space-constrained applications.
- Environmentally Sealed – Ensures reliable performance in harsh environments.
- Wide Temperature Range – Operates from -55°C to $+125^{\circ}\text{C}$; HT versions up to $+200^{\circ}\text{C}$.
- Flexible Contact Options – Available with 9–51 contacts accepting 24 AWG wire.
- High-Quality Materials – C17200 Beryllium Copper pins and C31400 Bronze sockets.
- Gold-Plated Contacts – .000050 Thk Gold per ASTM B488 for superior conductivity.
- Durable Plastic Shell – Lightweight, robust design for versatile applications.
- Reliable Electrical Performance – Designed for precision and long-term dependability.

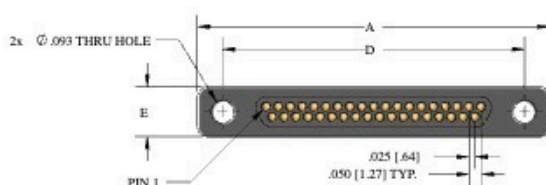
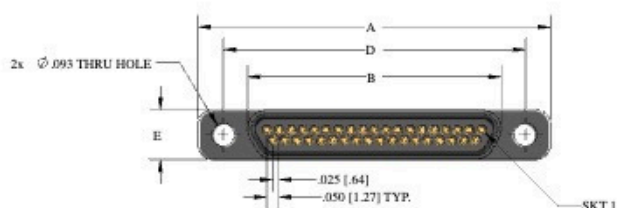
Micro-D Soldercup LPPS

DIMENSIONAL



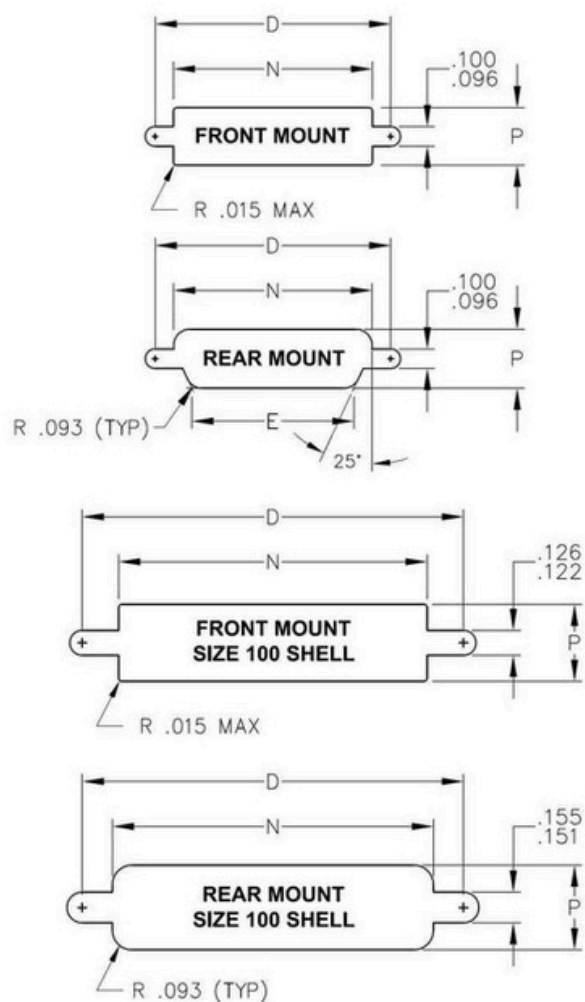
RECEPTACLE (SOCKETS)

PLUG (PINS)



Size	A Max.	B Max.	C Max.	D Nom.	E Max.	J Max.(Skt)	L Max.(Skt)	M Max.(Pin)
	ALL	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

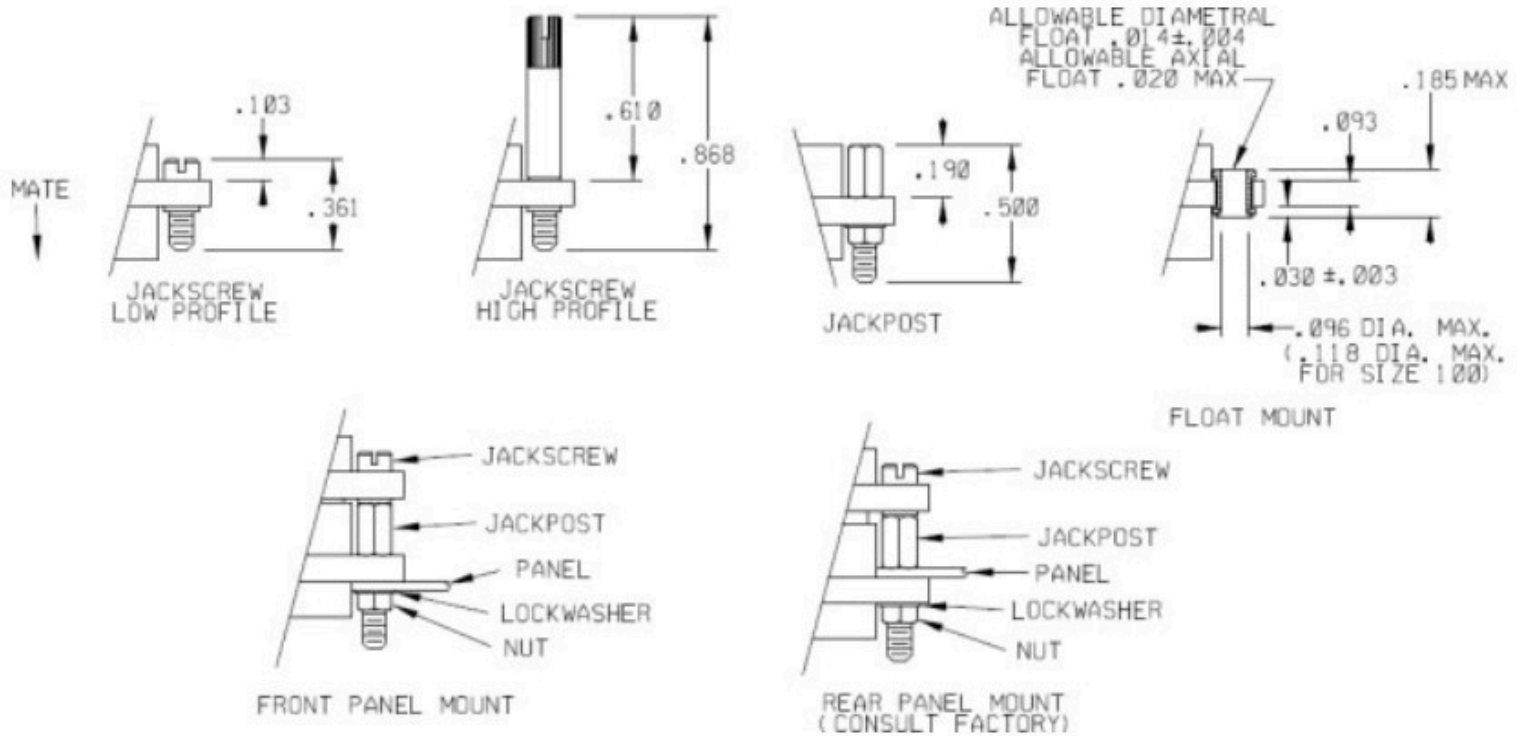
Size	ALL	N		P	
	D	Front Mount	Rear Mount	Front Mount	Rear Mount
9	.565	.400	.405	.280	.265
15	.715	.550	.555	.280	.265
21	.865	.700	.705	.280	.265
25	.965	.800	.805	.280	.265
31	1.115	.950	.955	.280	.265
37	1.265	1.100	1.105	.280	.265
51-3	1.215	1.046	1.057	.320	.305

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

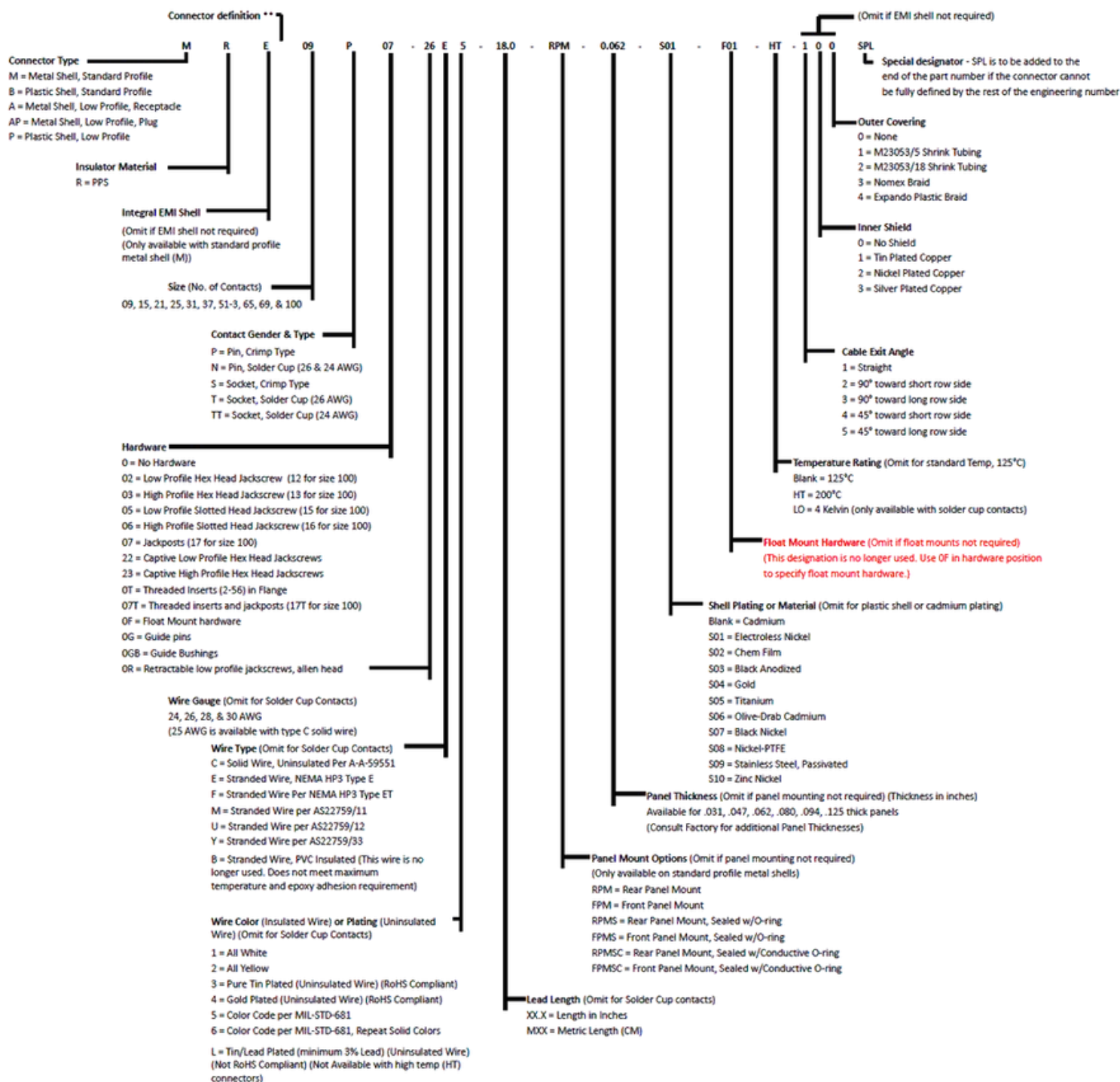


MATERIALS

Materials and Finishes	
Signal Pin Contacts	C17200 Beryllium Copper per ASTM B194
Signal Socket Contacts	C31400 Bronze Alloy per ASTM B140
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")