

Soldercup Standard Profile Metal Shell Connectors

Winchester Interconnect Micro offers Micro-D Combo Soldercup Standard Profile Metal Shell Connectors engineered for high reliability and performance in demanding environments. These quality connectors are available in multiple configurations, accommodating up to 10 coax or 65 signal positions. With an operating temperature range from -55°C to 200°C , they are built to withstand extreme conditions while maintaining stable electrical performance.

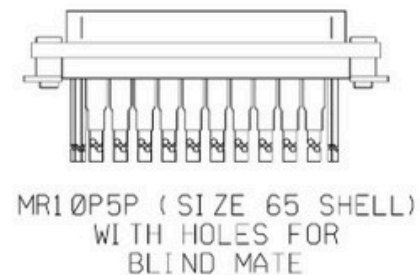
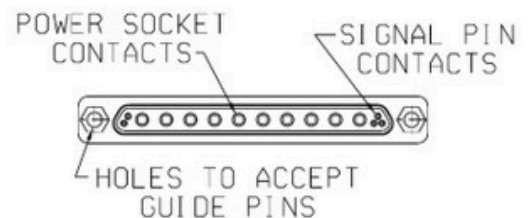
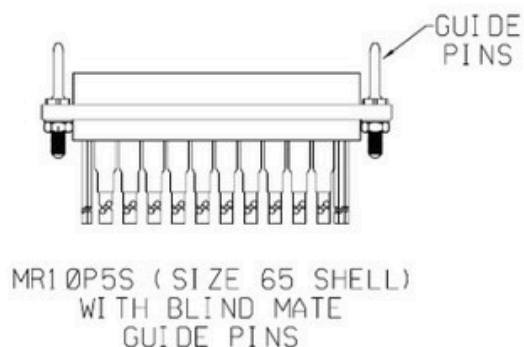
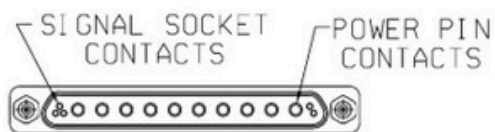
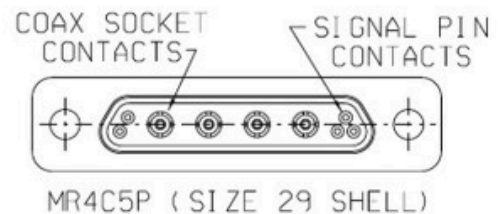
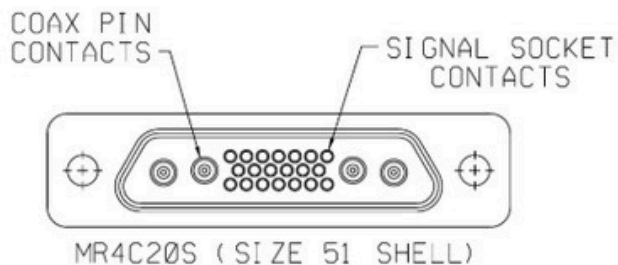
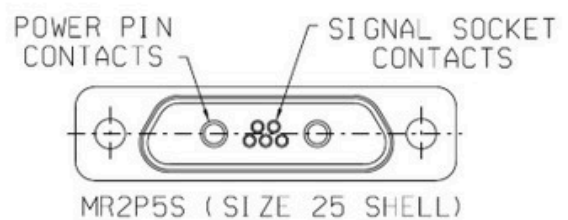
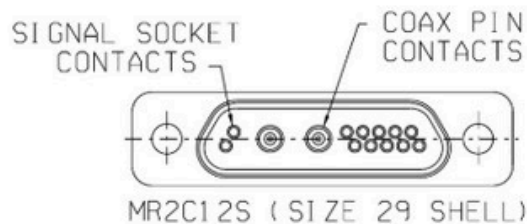
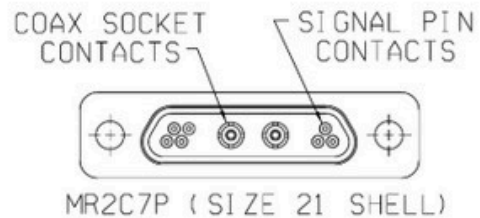
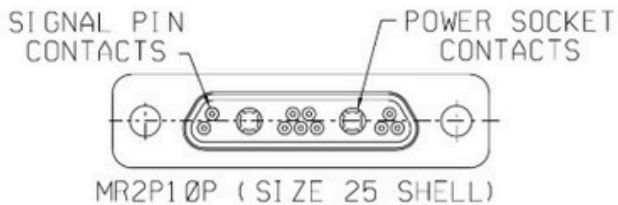


KEY FEATURES & BENEFITS

- Versatile Configurations – Available with up to 10 coax or 65 signal positions.
- Wide Temperature Range – Operates effectively from -55°C to 200°C for use in harsh conditions.
- Durable Shell Construction – Made from 6061-T6 Aluminum per SAE-AMS-QQ-A200/8 or Passivated 300 Series Stainless Steel for superior strength.
- Protective Shell Plating – Options include Electroless Nickel per AMS 2404 or Cadmium Plating per SAE-AMS-QQ-P-416 for enhanced corrosion resistance.
- High-Performance Insulator – Polyphenylene Sulfide (PPS) per MIL-M-24519 GST-40F ensures electrical stability.
- Reliable Hardware – Passivated Stainless Steel hardware per MIL-DTL-83513/05 provides mechanical durability.
- Environmental Sealing – Interfacial seals made of Fluorosilicone per MIL-R-25988 (standard profile, receptacles only) protect against moisture and contaminants.
- Rugged Design – Designed to provide long-term reliability in soldered interconnect applications.

Micro-D Combo Soldercup SPMS

DIMENSIONAL



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PERFORMANCE

Electrical Properties	
Contact Resistance	8 milliohm max contact only and 32 milliohms max with 6" length @ 2.5A.
Current Rating	3A max (Signal Contacts), 10A max Power Contacts
Dielectric Withstanding Voltage	600 VAC at sea level, 150 VAC at 70,000 feet. 1mA leakage current max for signal wire. 1300 VAC at sea level, 1mA leakage current max for power wire.
Insulation Resistance	500 VDC and 5000 Megohms min.
Impedance	Impedance Data (Coax) 37 ohm +/- 5%

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	C31400 Bronze Alloy per ASTM B140
Power Pin Contacts	C3600 Brass per ASTM B16
Power Socket Contacts	C17300 Beryllium Copper per ASTM B196
Coax Center Socket	C21000 Brass Alloy per ASTM B36
Coax Outer Socket	C17300 Beryllium Copper per ASTM B196
Coax Crimp Sleeve	C3600 Brass per ASTM B16
Coax Cener Pin	C17200 Beryllium Copper per ASTM B194
Coax Outer Pin	C3600 Brass per ASTM B16
Coax Dielectric	Liquid Crystal Polymer per GLCP-30F
Contact Plating	.000050 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

