

RQ Plug Quick Disconnect

Winchester Interconnect Micro offers RQ Plug Quick Disconnect Connectors available in Sizes 7, 19, and 37. These push-pull connectors feature a metal body with Nickel or Gold plating and support Wire-to-Wire and Wire-to-Board configurations. Electrical performance: 8 m Ω max contact-only, 32 m Ω max with 6" wire @ 2.5 A, and 3 A max current rating. Dielectric withstanding voltage 600 VAC at sea level and 150 VAC at 70,000 ft, with maximum 1 mA leakage current.



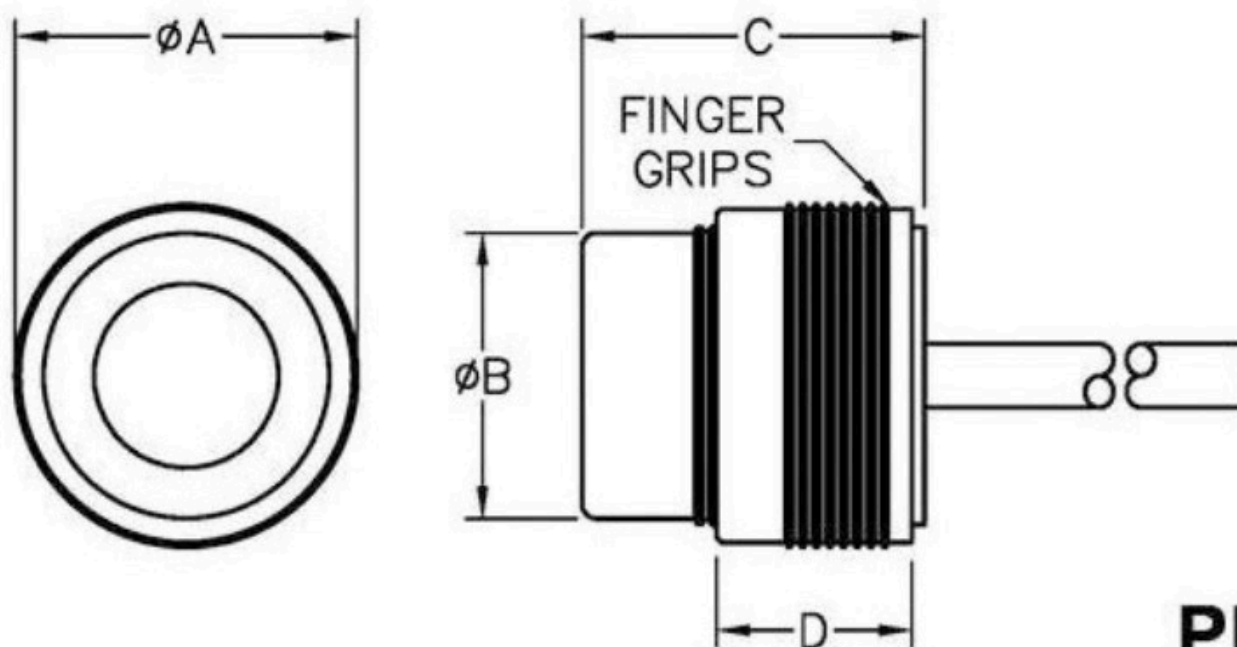
KEY FEATURES & BENEFITS

- Available in Sizes 7, 19, and 37 for design flexibility.
- Push-Pull Quick Disconnect mechanism for fast, secure mating.
- Metal body with Nickel or Gold plating for durability and corrosion resistance.
- Supports Wire-to-Wire and Wire-to-Board wiring configurations.
- Low contact resistance: 8 m Ω max (contact only); 32 m Ω max with 6" wire @ 2.5 A.
- 3 A max current rating for reliable power handling.
- High dielectric strength: 600 VAC (sea level) and 150 VAC (70,000 ft).
- Leakage current controlled to 1 mA max.

Micro Circular RQ Plug Quick Disconnect

DIMENSIONAL

Size 1, 2 & 3



Plug

Shell Size	A Max.	B Max.	C Ref.	D Max.	No. of Contacts
1	.425(10.80)	.300(7.62)	.770(19.56)	.460(11.68)	7 OR 19
2	.525(13.33)	.410(10.41)	.755(19.18)	.460(11.68)	19
3	.760(19.30)	.635(19.30)	.760(19.30)	.440(11.18)	37

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PERFORMANCE

Electrical	
Contact Resistance	8 milliohm max contact only and 32 milliohms max with 6" wire @ 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 for low temp products and 500VDC and 1000 Megohms min for high temp products

Mechanical	
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

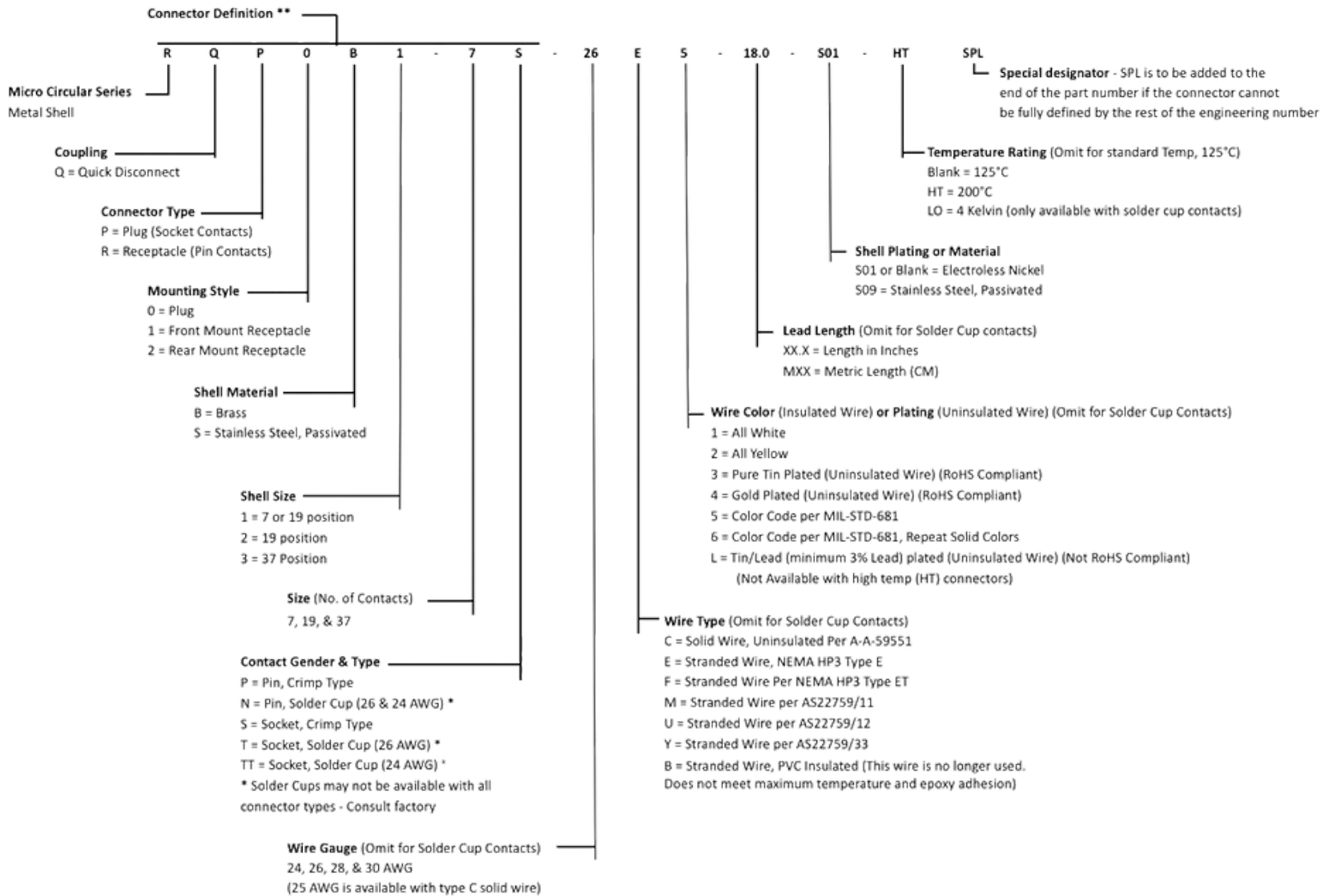
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MATERIALS

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
Insulator Material	Polyphenylene Sulfide (PPS) Per MIL-M-24519 GST-40F
Hardware	Passivated 300 Series Stainless Steel

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HOW TO ORDER



** For double ended assemblies, include connector definition for both ends separated by a forward slash (/)