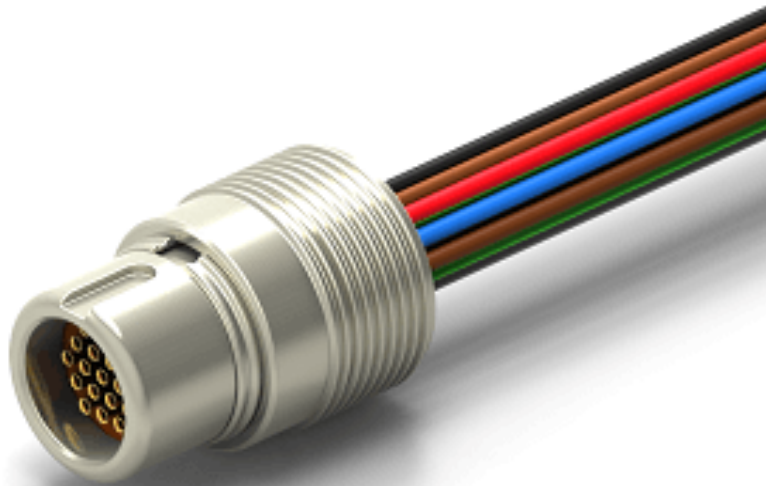


Circular Micro-D Quick Disconnect



Winchester Interconnect offers our Push-Pull quick disconnect family of dependable circular connectors. They feature ease of coupling, round cable bundle form, easy panel mounting, and unmatched space efficiency.

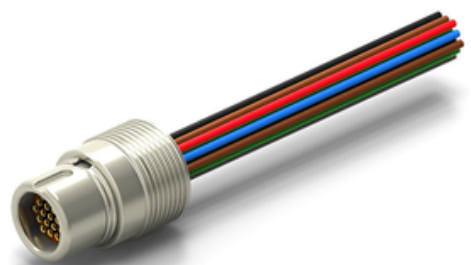
Our connectors are meticulously designed to meet the highest standards, ensuring optimal performance in cable applications. If you're an engineer seeking reliable cable connectors that maximize convenience and space utilization, look no further.

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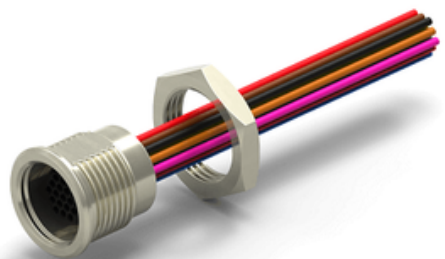
3-14.....Circular Micro-D Quick Disconnect

4....RQ Plug Quick Disconnect

9...RQ Receptacle Connectors



Circular Micro-D Quick Disconnect



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.



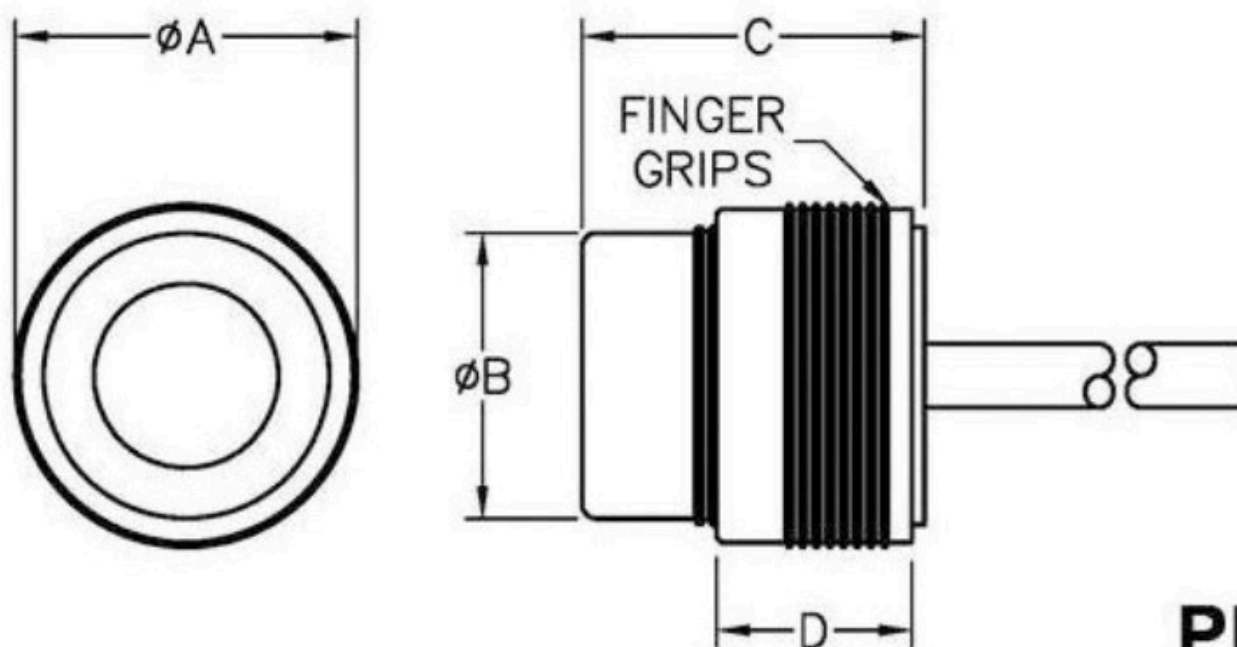
KEY FEATURES & BENEFITS

- 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

Micro Circular RQ Plug Quick Disconnect

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

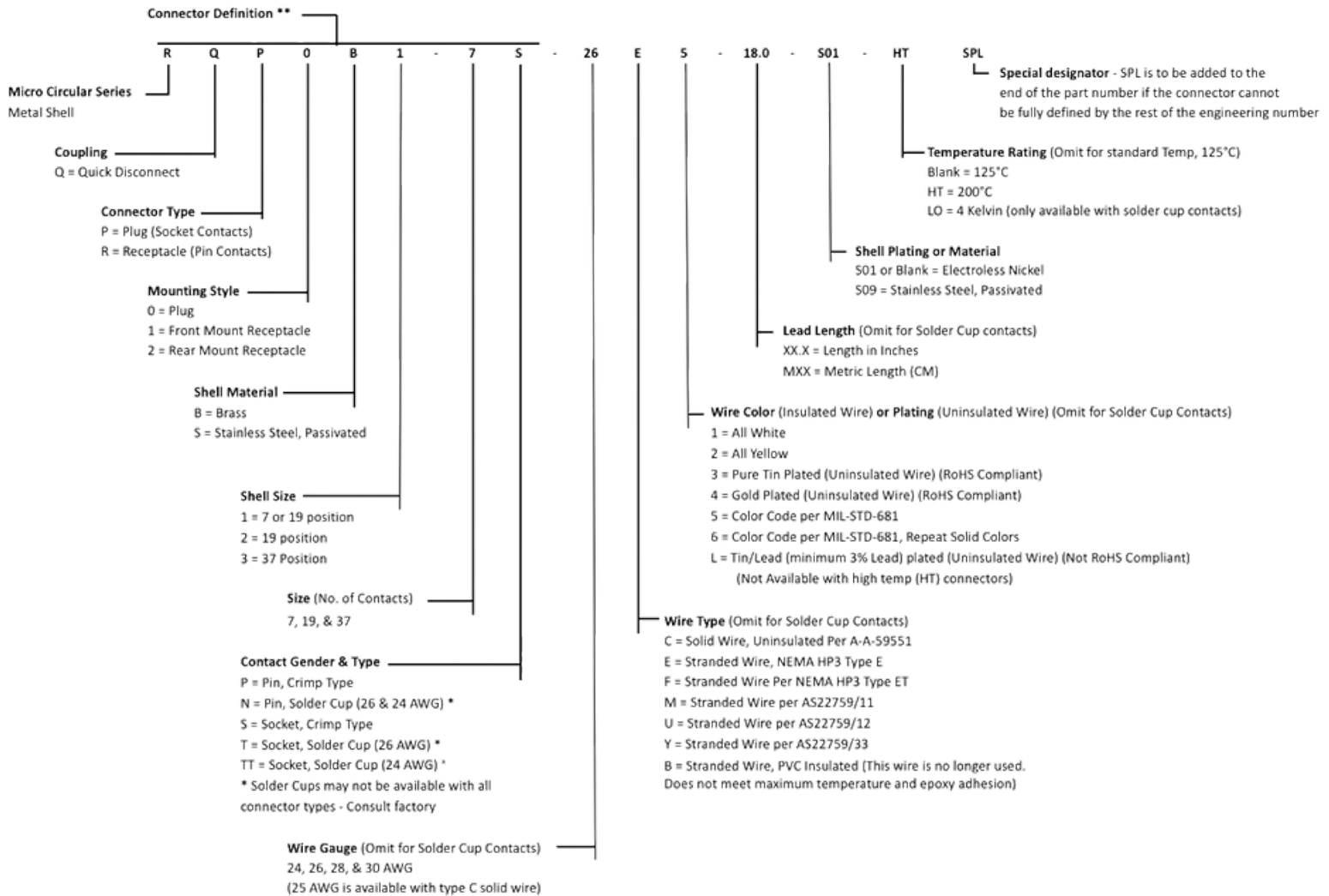
Micro Circular RQ Plug Quick Disconnect

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

Micro Circular RQ Plug Quick Disconnect

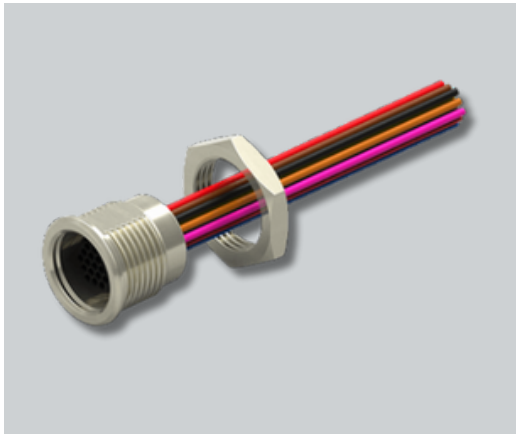
HOW TO ORDER



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

RQ Receptacle Connectors

Winchester Interconnect Micro offers RQ Receptacle Connectors, designed for versatility and reliability in demanding applications. Available in front and rear panel mount configurations, these circular connectors provide easy coupling, a clean cable bundle form, and simplified panel integration. They feature 8 mΩ max contact-only resistance, 32 mΩ max with 6" wire @ 2.5 A, and a 3 A max current rating. Electrical strength includes 600 VAC at sea level and 150 VAC at 70,000 ft, with 1 mA max leakage current.

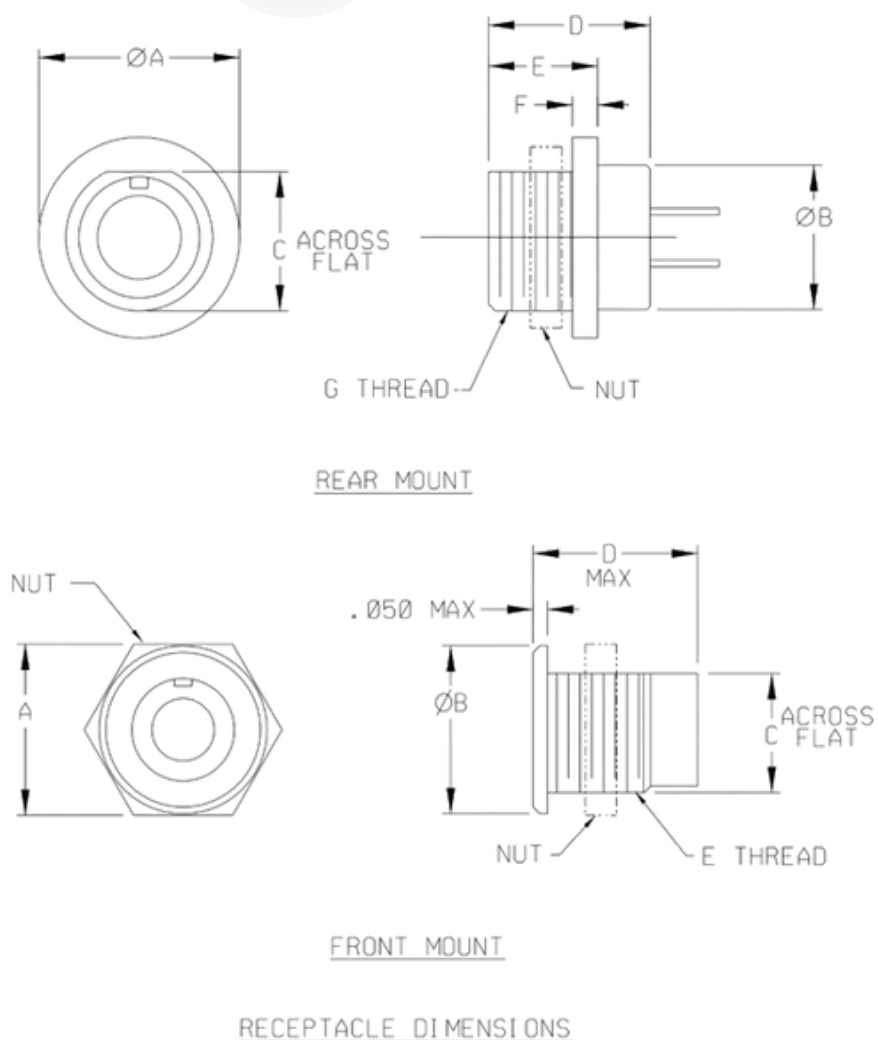


KEY FEATURES & BENEFITS

- Front and Rear Panel Mount Options – Allow flexible installation for varied equipment designs.
- Circular Form Factor – Provides efficient coupling and organized cable routing.
- Low Contact Resistance – 8 mΩ (contact only) and 32 mΩ (with 6" wire at 2.5 A) for superior conductivity.
- High Current Capacity – Rated for 3 A maximum to support robust electrical performance.
- Strong Dielectric Strength – Withstands 600 VAC at sea level and 150 VAC at 70,000 feet.
- Low Leakage Current – 1 mA maximum for enhanced electrical safety and reliability.
- Versatile Application Use – Ideal for compact, high-performance interconnect systems.

Micro Circular RQ Receptacle

DIMENSIONAL



2D DIMENSIONAL DATA - RQ Receptacle Rear Mount

Shell Size	A Max.	B Max.	C Ref.	D Max.	E Max.	F Max.	G Thread
1 2 3	.570 (14.48)	.435 (11.05)	.420 (10.67)	.485 (12.31)	.300 (7.62)	.050 (1.27)	7/16-28 UNEF-2A
	.655 (16.64)	.460 (11.68)	.485 (12.32)	.520 (13.21)	.345 (8.76)	.095 (2.41)	1/2-28 UNEF-2A
	.885 (22.48)	.750 (19.05)	.730 (18.54)	.500 (12.70)	.300 (7.62)	.050 (1.27)	3/4-20 UNEF-2A

2D DIMENSIONAL DATA - RQ Receptacle Front Mount

Shell Size	A Max.	B Max.	C Ref.	D Max.	E Thread
1 2 3	.510 (12.95)	.510 (12.95)	.360 (9.14)	.495 (12.57)	3/8-32 UNEF-2A
	.635 (16.13)	.570 (14.48)	.480 (12.19)	.510 (12.95)	1/2-28 UNEF-2A
	.820 (20.83)	.855 (21.72)	.735 (18.67)	.495 (12.57)	3/4-20 UNEF-2A

Micro Circular RQ Receptacle

PERFORMANCE

Electrical	
Contact Resistance	8 milliohm max contact only and 32 millohms 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
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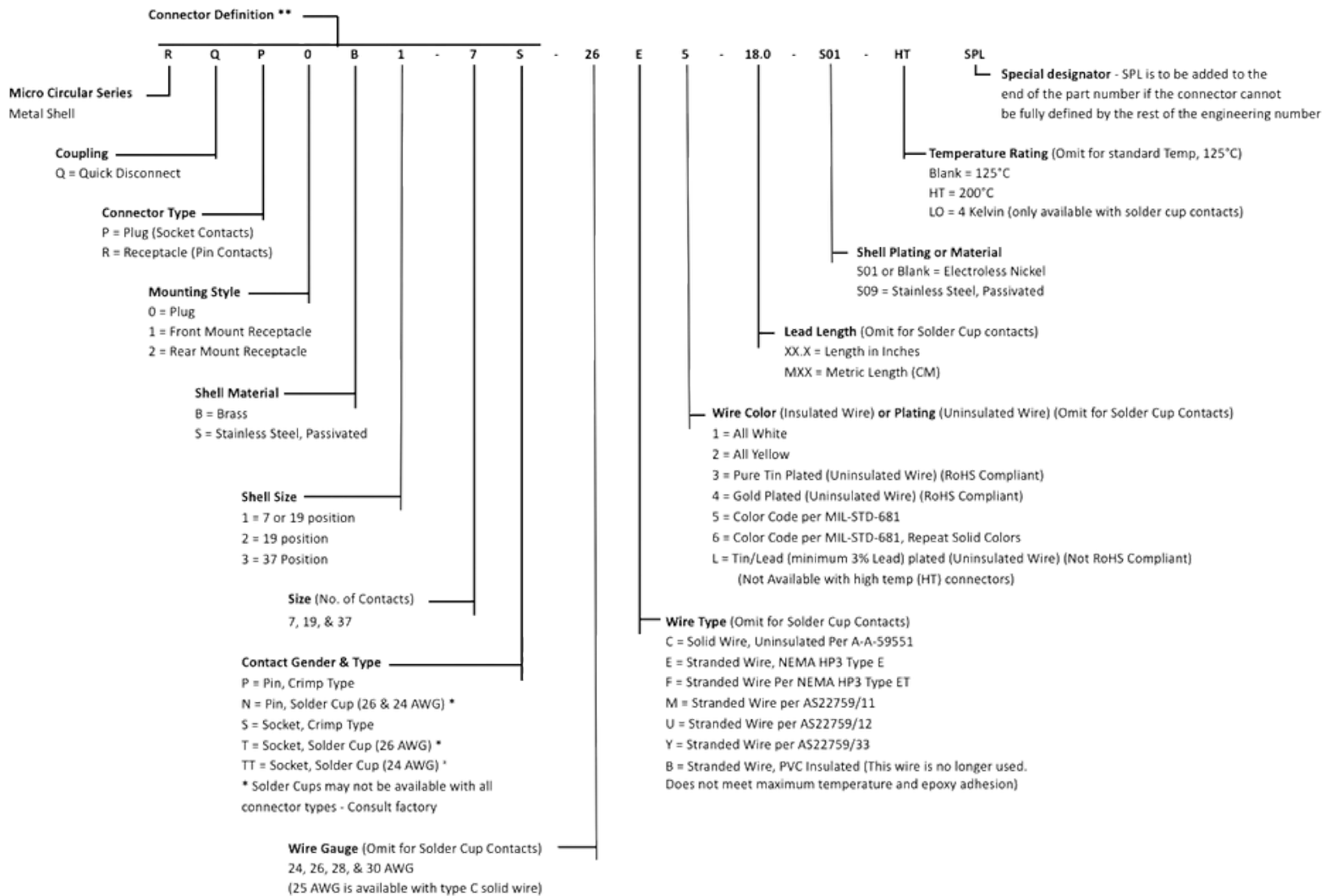
Micro Circular RQ Receptacle

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

Micro Circular RQ Receptacle

HOW TO ORDER



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About Winchester Interconnect

Winchester Interconnect is a US-based manufacturer of high-precision connectors, cable assemblies, and cable. Our products are ideal for military and aerospace, industrial, medical, and space applications where expertise and reliability are critical to your success.

Our 30,000+ connectivity solutions include standard and custom RF and microwave interconnects, hermetic connectors and packaging, micro-miniature connectors and assemblies, fiber optic connectors, industrial cable, and undersea cable

We work in the toughest industries where failure is not an option. For connectivity applications requiring high performance in harsh environments, life-saving systems, and the latest connected technologies, our industry-leading knowledge and engineering capabilities will ensure reliable, cutting-edge interconnect solutions that won't fail when it matters most.

Our Industries & Market Solutions



Industrial
Automation



Space



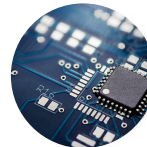
Oil & Gas



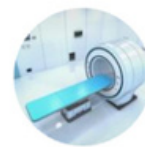
Marine
Subsea



Aerospace
& Defense



Semiconductor



Medical



Custom