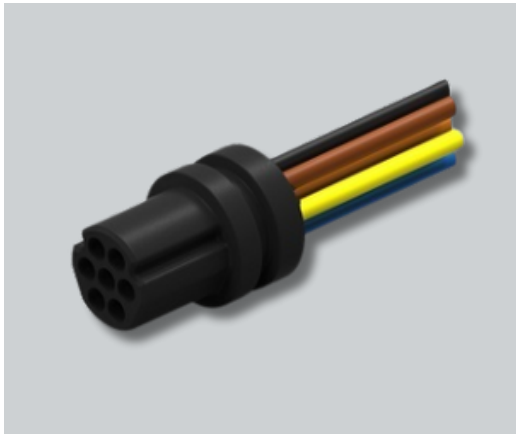


Ulti-Mate Connectors

Ulti-Mate Nano Circular

Plastic Connectors

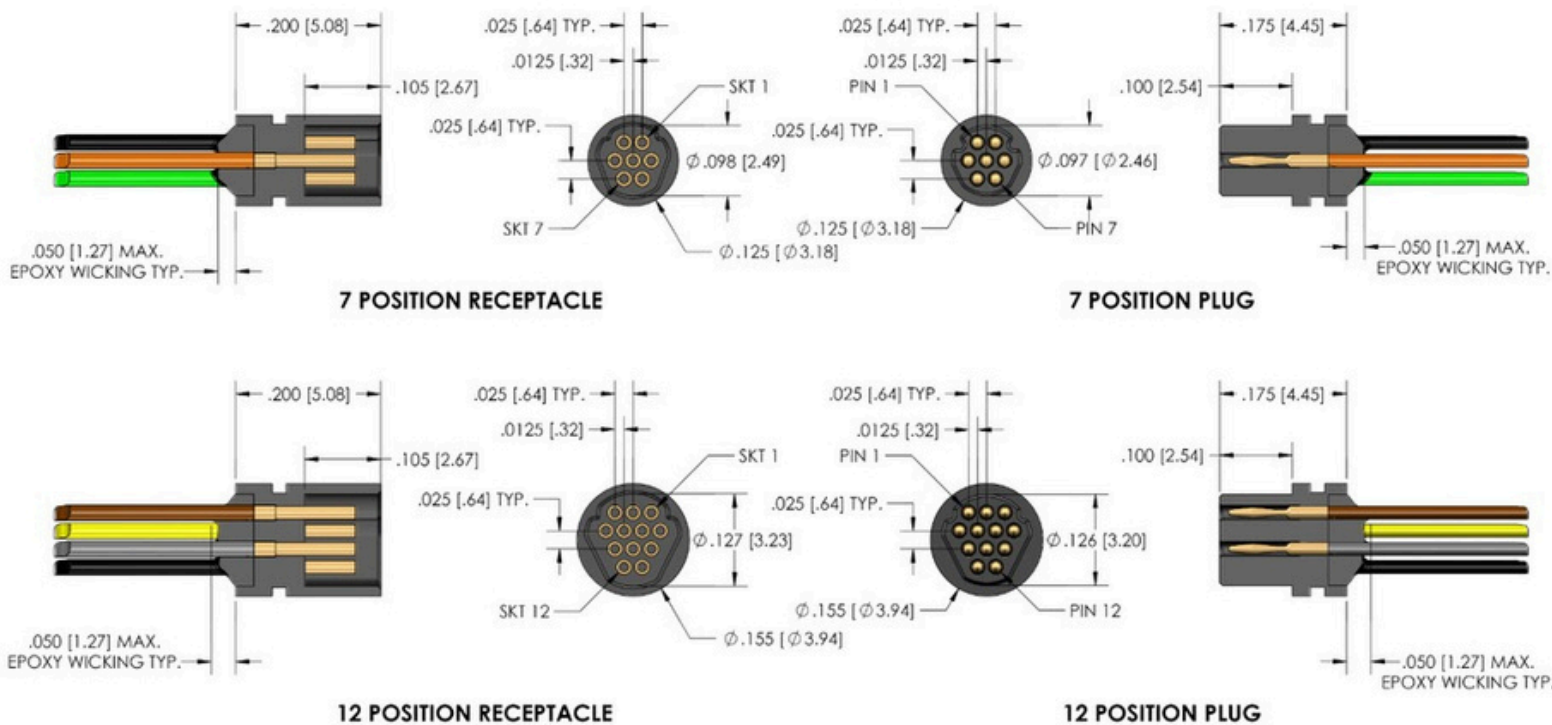
Winchester Interconnect Micro, formerly known as Ulti-Mate Connector, offers Nano Circular Plastic Connectors – dependable and lightweight interconnect solutions designed for performance and versatility. Available in both Nano Circular and Circular Plastic Inline Polarized types, these connectors deliver reliable electrical connections across a wide range of applications. With an operating temperature range of -55°C to 125°C and optional high-temperature versions up to 200°C (add HT), they ensure consistent operation in challenging environments.



KEY FEATURES & BENEFITS

- Durable Plastic Construction – Lightweight yet robust design ensures long-term reliability.
- Versatile Options – Offered in Nano Circular and Inline Polarized configurations to fit various needs.
- Wide Temperature Range – Operates from -55°C to 125°C , with high-temp versions available up to 200°C .
- High-Quality Materials – Signal Pin Contacts made of C17200 Beryllium Copper and Socket Contacts of C26000 Brass Alloy for superior conductivity.
- Gold-Plated Contacts – Gold plating per ASTM B488 provides excellent corrosion resistance and low contact resistance.
- Reliable Insulation – Insulator options include LCP (GLCP-30F) or PPS per MIL-M-24519 GST-40F for strength and stability.
- Application Flexibility – Ideal for compact, high-performance electronic systems requiring precision and reliability.

DIMENSIONAL



PERFORMANCE

Electrical Properties	
Contact Resistance	33 milliohm max contact only and 87 milliohms max with 6" wire @ 1A
Current Rating	1A max.
Dielectric WithStanding Voltage	250 VAC at sea level, 100 VAC at 70,000 feet. 1mA leakage current max.
Insulation Resistance	100 VDC and 5000 Megohms min.

Mechanical	
Engaging Force	5 oz max.
Separation Force	.4 oz min.
Mating/Unmating Force	7 oz x # of contacts max.
Vibration	EIA-364-28 Condition IV, 1 microsecond max discontinuity
Shock	EIA-364-27 Condition G, 1 microsecond max discontinuity
Durability	EIA-364-09, 200 matings, passes Mating Force, CR, Eng and Sep Forces

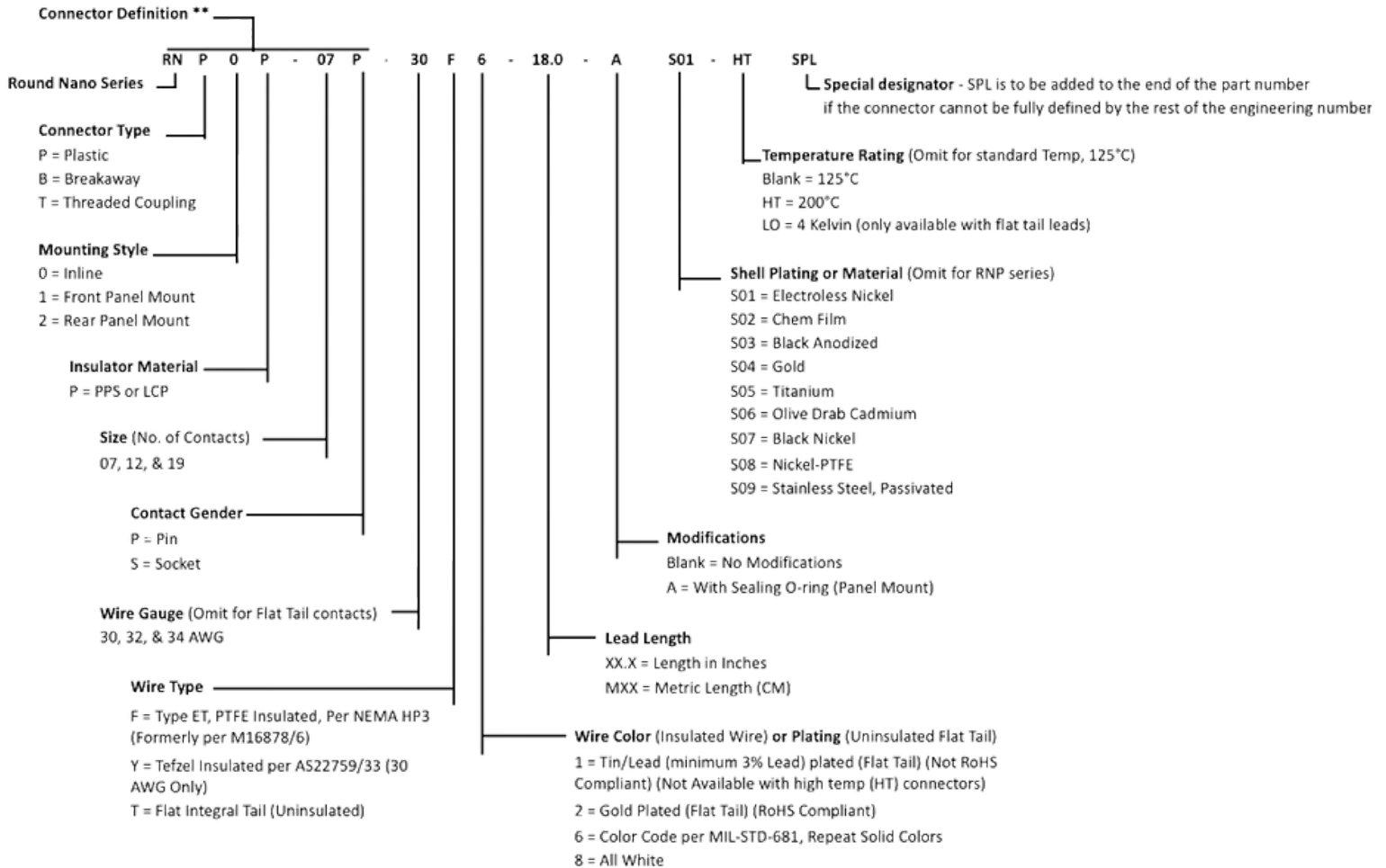
MATERIALS

Materials and Finishes	
Signal Pin Contacts	C17200 Beryllium Copper per ASTM B194
Signal Socket Contacts	C26000 Brass Alloy per ASTM B135
Contact Plating	Gold Plating per ASTM B488
Insulator Material	LCP(Liquid Crystal Polymer) GLCP-30F or PPS per MIL-M-24519 GST-40F

Nano Circular Plastic

HOW TO ORDER

Round Nano Series Engineering Number Definitions



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