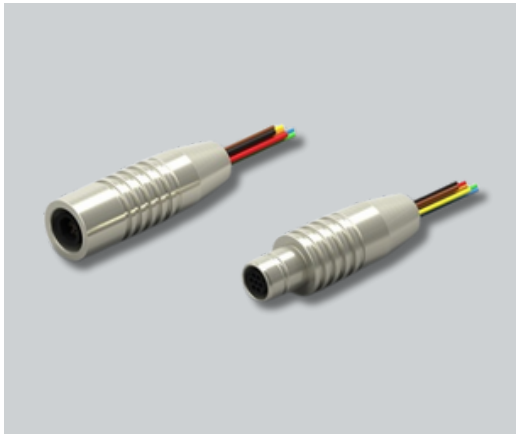


Breakaway Metal Shell Connectors

Winchester Interconnect Micro, formerly known as Ulti-Mate Connector, offers Nano Circular Breakaway Metal Shell Connectors – compact, durable connectors engineered for high-performance interconnects in demanding environments. Featuring a circular metal shell with an inline breakaway design, these wired connectors provide reliable connections with easy disengagement under stress. Operating across a wide temperature range of -55°C to 125°C , and up to 200°C for high-temperature versions, they ensure dependable performance in extreme conditions.

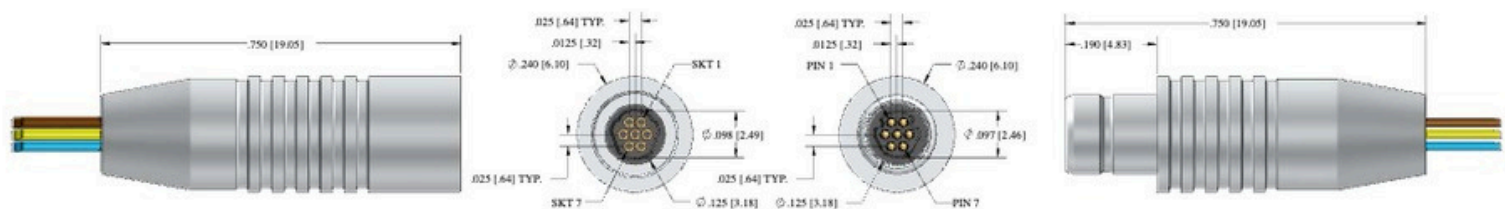


KEY FEATURES & BENEFITS

- **Rugged Construction** – Circular metal shell design ensures mechanical strength and long-lasting durability.
- **Versatile Configurations** – Available in 7, 12, and 19 contact options for a range of applications.
- **Wide Temperature Range** – Operates from -55°C to 125°C , with high-temperature versions up to 200°C .
- **Excellent Electrical Performance** – Contact resistance of 33 milliohms max (contact only) and 87 milliohms max (with 6" wire at 1A).
- **Reliable Power Handling** – Current rating of 1A max and dielectric strength of 250 VAC at sea level / 100 VAC at 70,000 feet.
- **Superior Insulation** – 5000 Megohms minimum at 100 VDC ensures high signal integrity.
- **Environmental Protection** – Optional IP67 rating provides enhanced resistance to moisture and contaminants.
- **Quick Disconnect Capability** – Inline breakaway feature allows for rapid separation in critical applications.

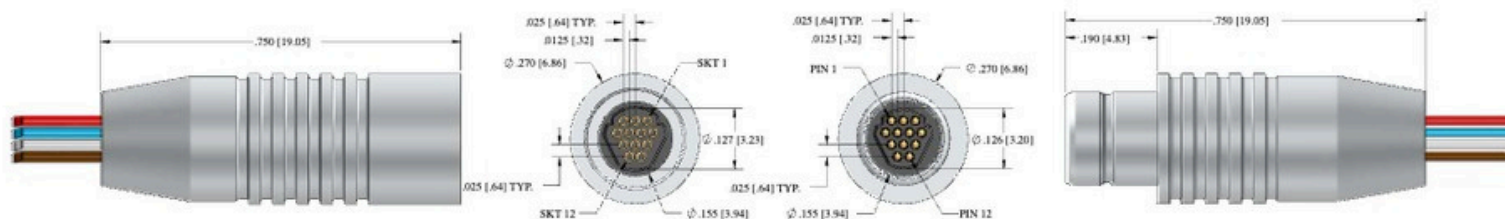
Nano Circular Breakaway Metal Shell

DIMENSIONAL



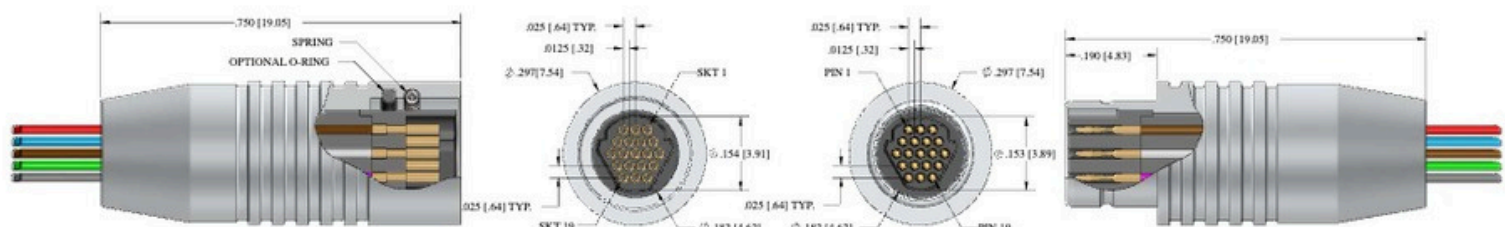
7 POSITION RECEPTACLE

7 POSITION PLUG



12 POSITION RECEPTACLE

12 POSITION PLUG



19 POSITION RECEPTACLE

19 POSITION PLUG

Nano Circular Breakaway Metal Shell

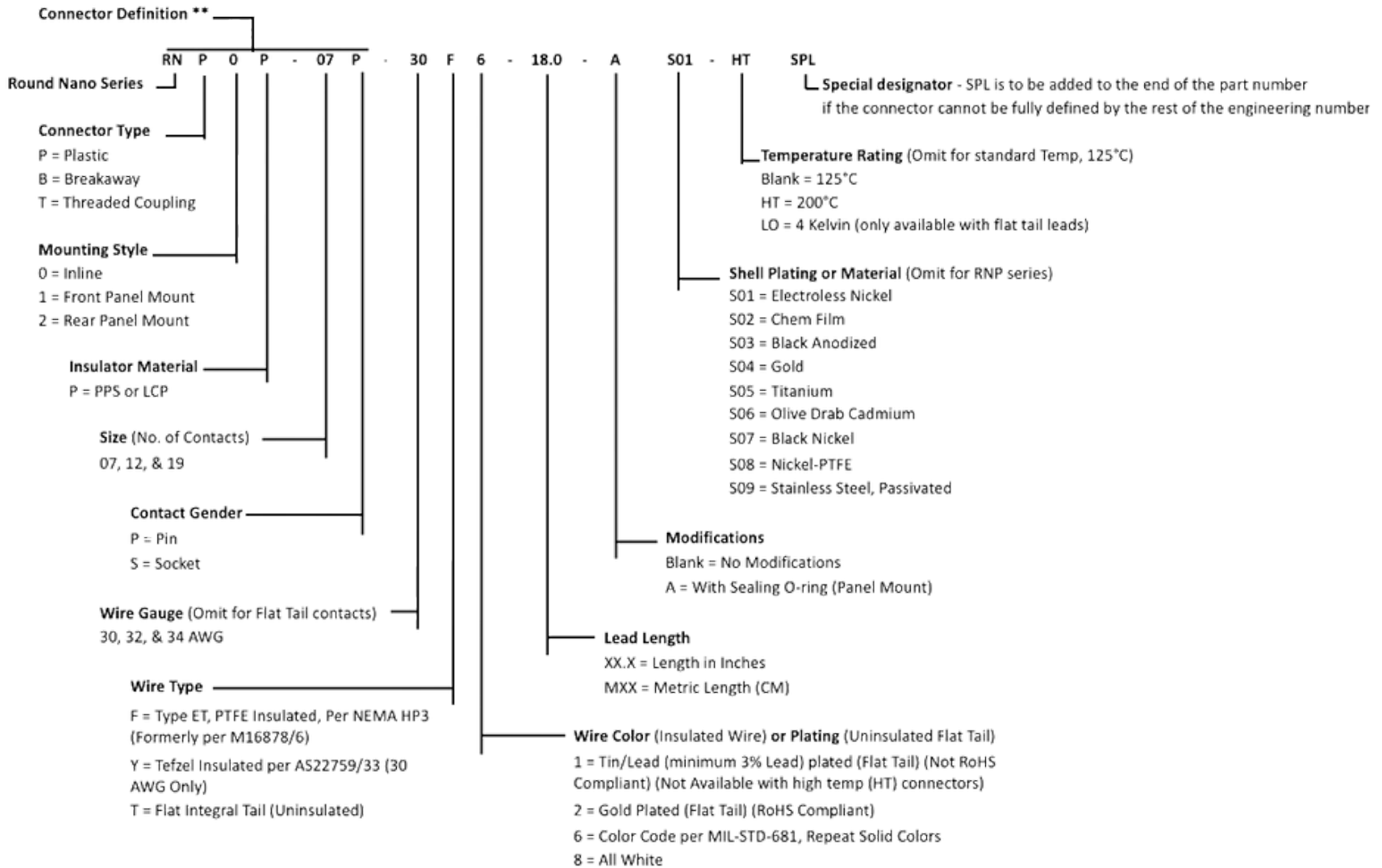
PERFORMANCE

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

Nano Circular Breakaway Metal Shell

HOW TO ORDER



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