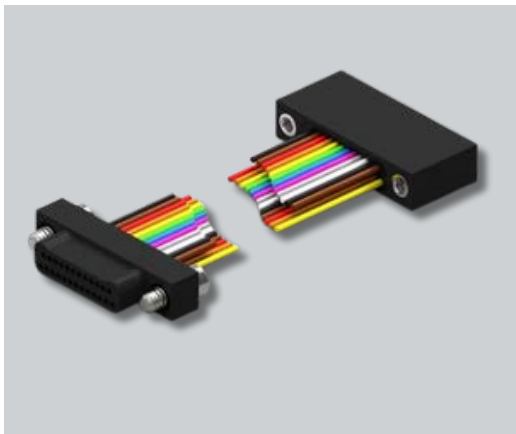


Dual Row Double Ended Plastic Shell Connectors

Winchester Interconnect Micro offers Nano Wired Dual Row Double Ended Plastic Shell Connectors, engineered for high performance and reliability in demanding environments. These plastic shell connectors with wire leads operate across a temperature range of -55°C to 125°C , with high-temperature versions available up to 200°C (add HT). Available in 9 to 65 contacts, they deliver excellent electrical performance with a contact resistance of 33 milliohms max (contact only) and 87 milliohms max with 6" wire at 1A. They feature a current rating of 1A max and dielectric withstanding voltages of 250 VAC at sea level and 100 VAC at 70,000 feet, with a 1mA leakage current maximum.

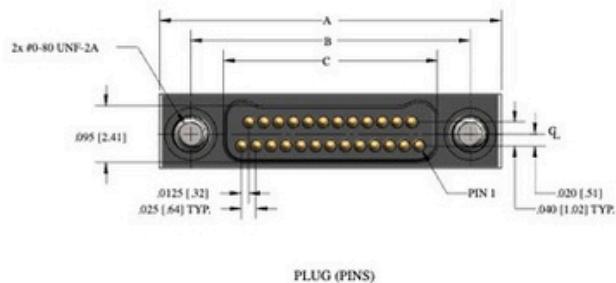
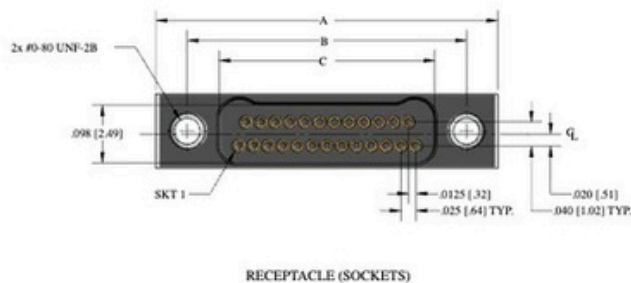
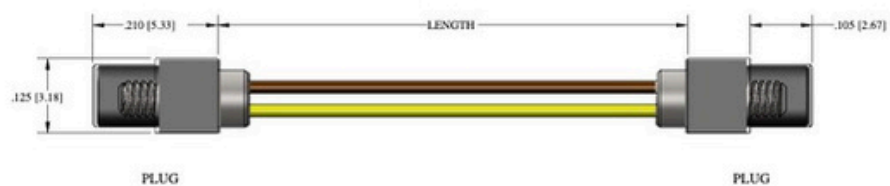


KEY FEATURES & BENEFITS

- Durable Plastic Shell – Lightweight and corrosion-resistant design ideal for demanding environments.
- Wide Temperature Range – Operates from -55°C to 125°C ; high-temp versions up to 200°C available (add HT).
- Excellent Electrical Performance – Contact resistance of 33 m Ω (contact only) and 87 m Ω (with 6" wire at 1A).
- Reliable Power Handling – Supports a maximum current rating of 1A for consistent performance.
- High Dielectric Strength – Withstands 250 VAC at sea level and 100 VAC at 70,000 feet with $\leq 1\text{mA}$ leakage.
- Multiple Contact Options – Available in configurations from 9 to 65 contacts for application flexibility.
- Qualified to MIL-DTL-32139 – QPL-certified for military-grade quality and long-term reliability.

Nano Wired Dual Row Double Ended Plastic Shell

DIMENSIONAL



Size	A	B	C	
			Receptacle	Plug
9	.375 [9.52]	.270 [6.86]	.160 [4.06]	.163 [4.14]
15	.450 [11.43]	.345 [8.76]	.235 [5.97]	.238 [6.04]
21	.525 [13.33]	.420 [10.67]	.310 [7.87]	.313 [7.95]
25	.575 [14.60]	.470 [11.94]	.360 [9.14]	.363 [9.22]
31	.650 [16.51]	.545 [13.84]	.435 [11.05]	.438 [11.12]
37	.725 [18.41]	.620 [15.75]	.510 [12.95]	.513 [13.03]
51	.900 [22.86]	.795 [20.19]	.685 [17.40]	.688 [17.47]
65	1.075 [27.30]	.970 [24.64]	.860 [21.84]	.863 [21.92]

Nano Wired Dual Row Double Ended Plastic Shell

PERFORMANCE

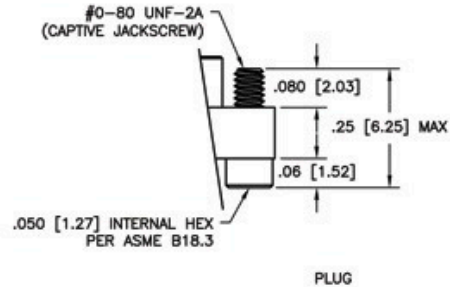
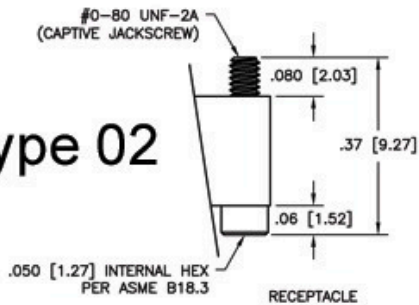
Electrical Properties	
Contact Resistance	33 milliohm max contact only and 87 milliohms max with 6" wire @ 1A
Current Rating	1A max.
Dielectric WithStanding Voltage	250 VAC at sea level, 100 VAC at 70,000 feet. 1mA leakage current max.
Insulation Resistance	100 VDC and 5000 Megohms min.

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

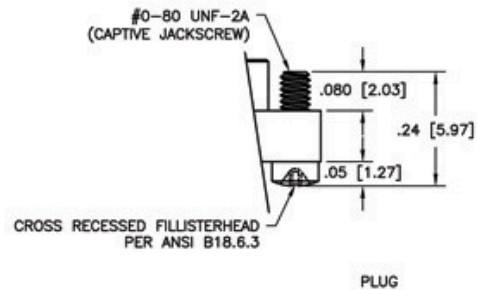
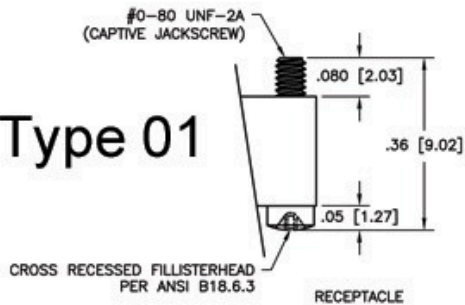
Nano Wired Dual Row Double Ended Plastic Shell

HARDWARE

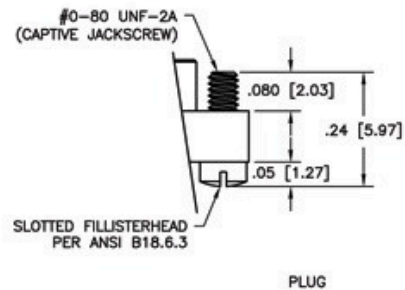
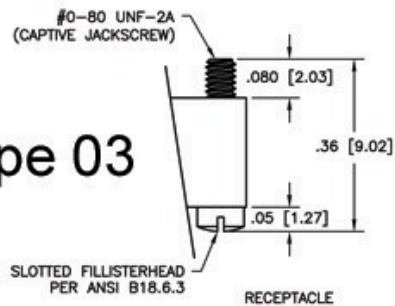
Type 02



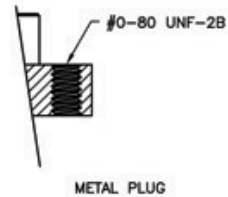
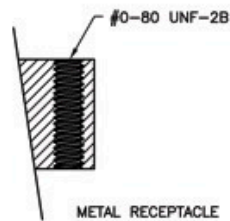
Type 01



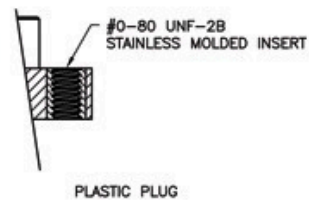
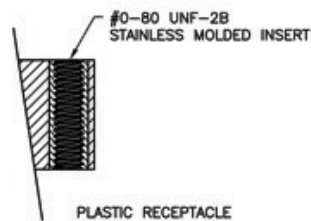
Type 03



Type 07



Type 07



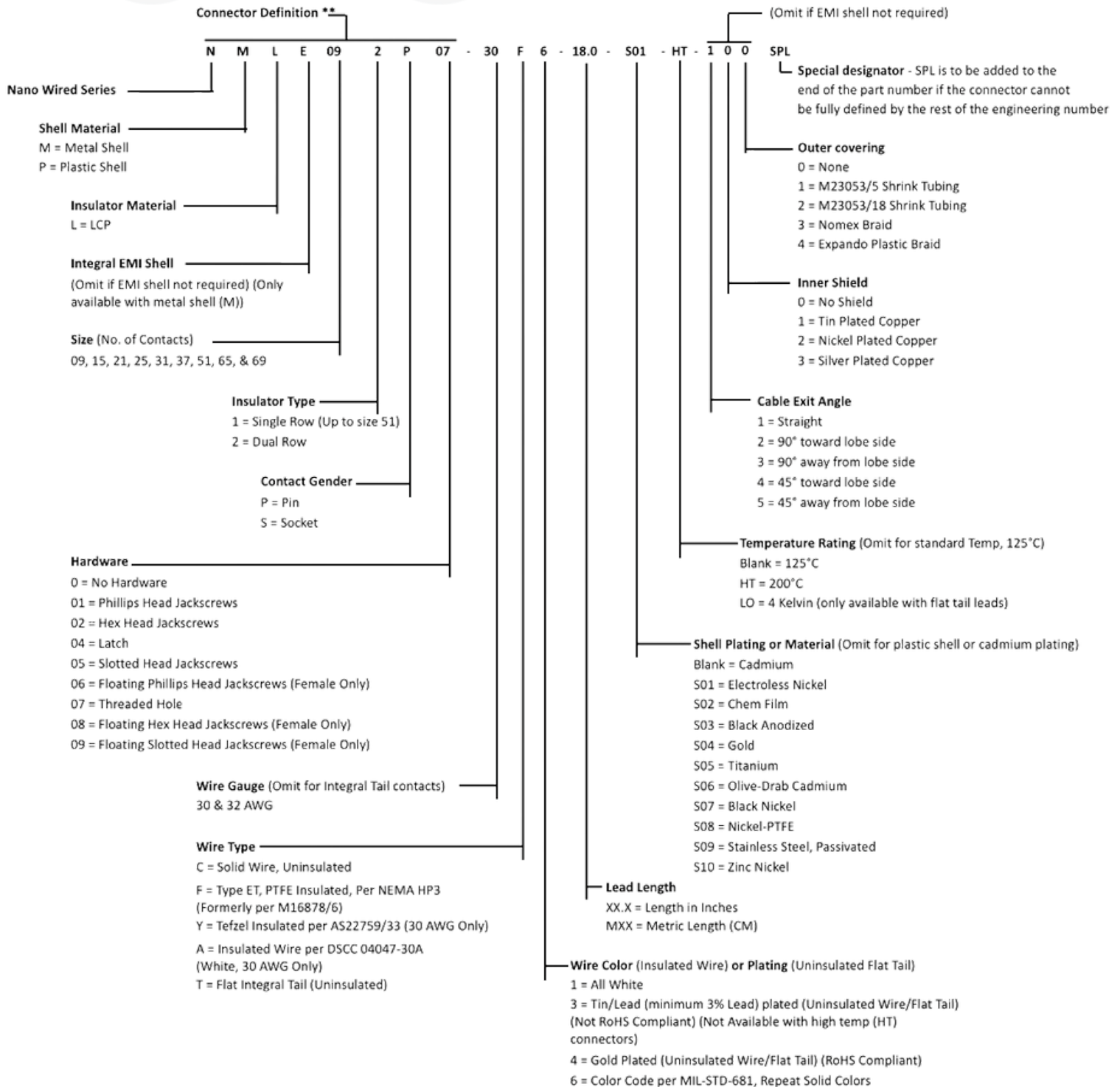
Nano Wired Dual Row Double Ended Plastic Shell

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
Shell	6061-T6 Aluminum per SAE-AMS-QQ-A200/8 or 300 Series Stainless Steel per ASTM A582
Shell Plating	Electroless Nickel per SAE-AMS2404, or Cadmium per SAE-AMS-QQ-P-416 or Black Anodize per MIL-A-8625 or Passivated per AMS2700
Insulator Material	LCP(Liquid Crystal Polymer) GLCP-30F or PPS per MIL-M-24519 GST-40F
Hardware	300 Series Stainless Steel per ASTM A 582/A582 or ASTM A 581/A581M, Passivated per SAE AMS-2700

Nano Wired Dual Row Double Ended Plastic Shell

HOW TO ORDER



** For double ended assemblies, include connector definition for both ends separated by a forward slash (/)
Excludes Integral Shell assemblies ("E" option)