

Dual Row Single Ended Plastic Shell Connectors

Winchester Interconnect Micro offers Wired Dual Row Single Ended Plastic Shell Connectors designed for high performance in compact and lightweight applications. These plastic shell connectors with wire leads operate within a standard temperature range of -55°C to 125°C , with high-temperature versions available up to 200°C (add HT). Available in 9 to 65 contact configurations, they provide flexibility for a wide range of interconnect solutions. As a QPL qualified supplier for MIL-DTL-32139 products, Winchester ensures military-grade reliability and durability.

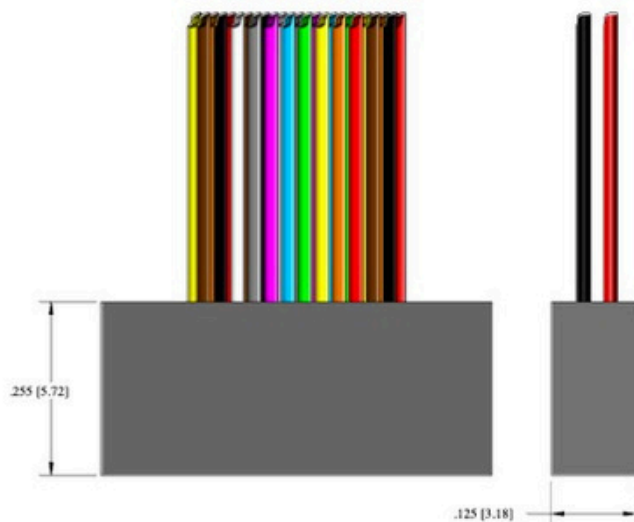


KEY FEATURES & BENEFITS

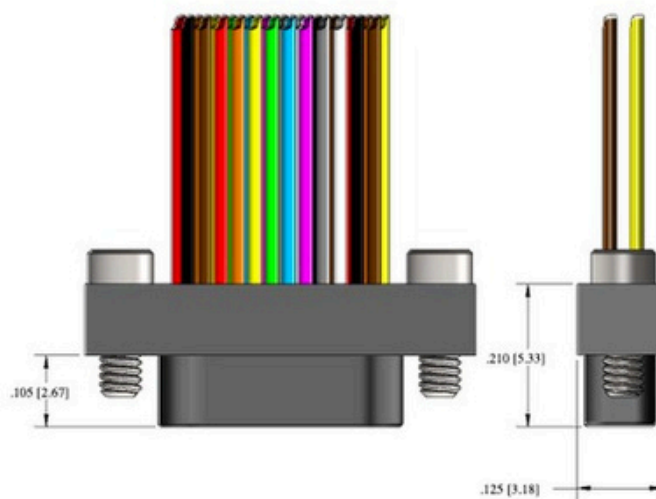
- Lightweight Plastic Shell – Provides durability while minimizing weight for compact systems.
- Dual Row Design – Supports higher contact density in limited space.
- Wide Temperature Range – Operates from -55°C to 125°C , extendable to 200°C (HT option).
- Reliable Electrical Performance – Ensures consistent connectivity under varying environmental conditions.
- MIL-DTL-32139 Qualified – Meets stringent military and aerospace standards for quality and reliability.
- Flexible Contact Options – Available in 9 to 65 contact configurations to suit diverse application needs.

Nano Wired Dual Row Single Ended Plastic Shell

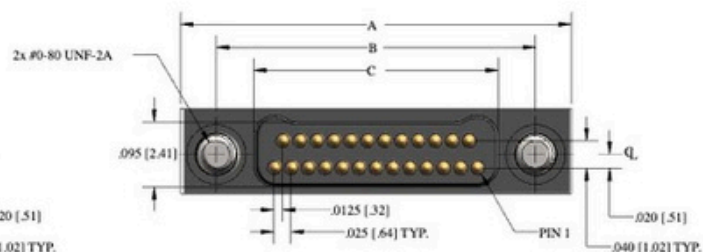
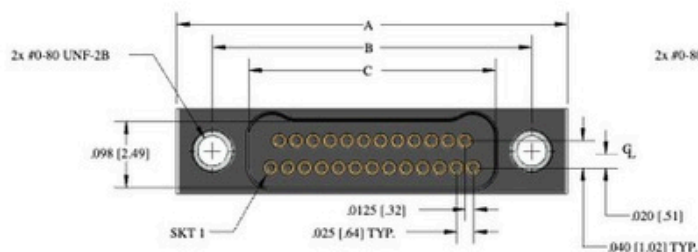
DIMENSIONAL



RECEPTACLE (SOCKETS)



PLUG (PINS)



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]

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PERFORMANCE

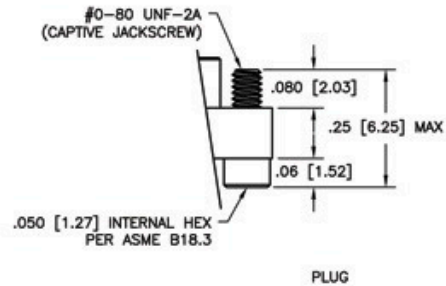
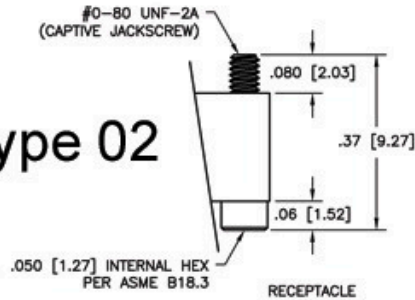
Electrical Properties	
Contact Resistance	33 milliohm max contact only and 87 milliohms max with 6" wire @ 1A
Current Rating	1A max.
Dielectric WithStanding Voltage	250 VAC at sea level, 100 VAC at 70,000 feet. 1mA leakage current max.
Insulation Resistance	100 VDC and 5000 Megohms min.

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

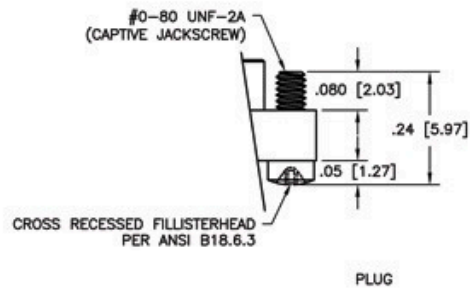
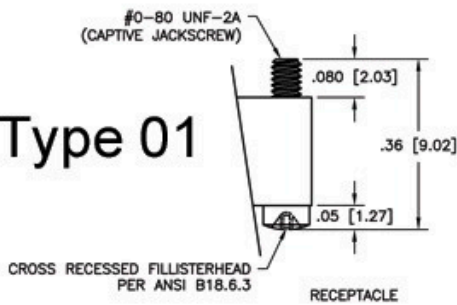
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HARDWARE

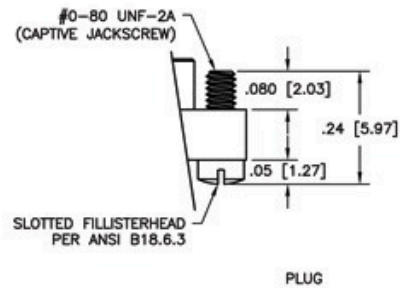
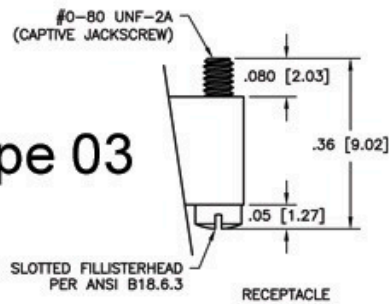
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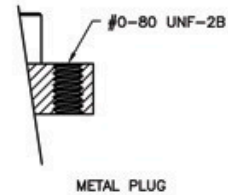
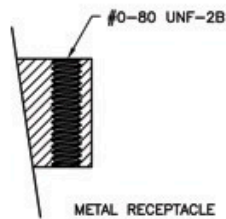
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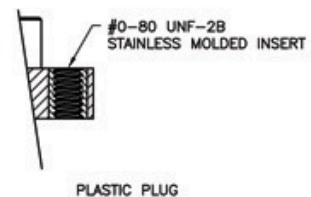
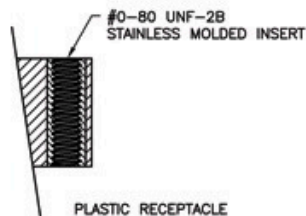
Type 03



Type 07



Type 07



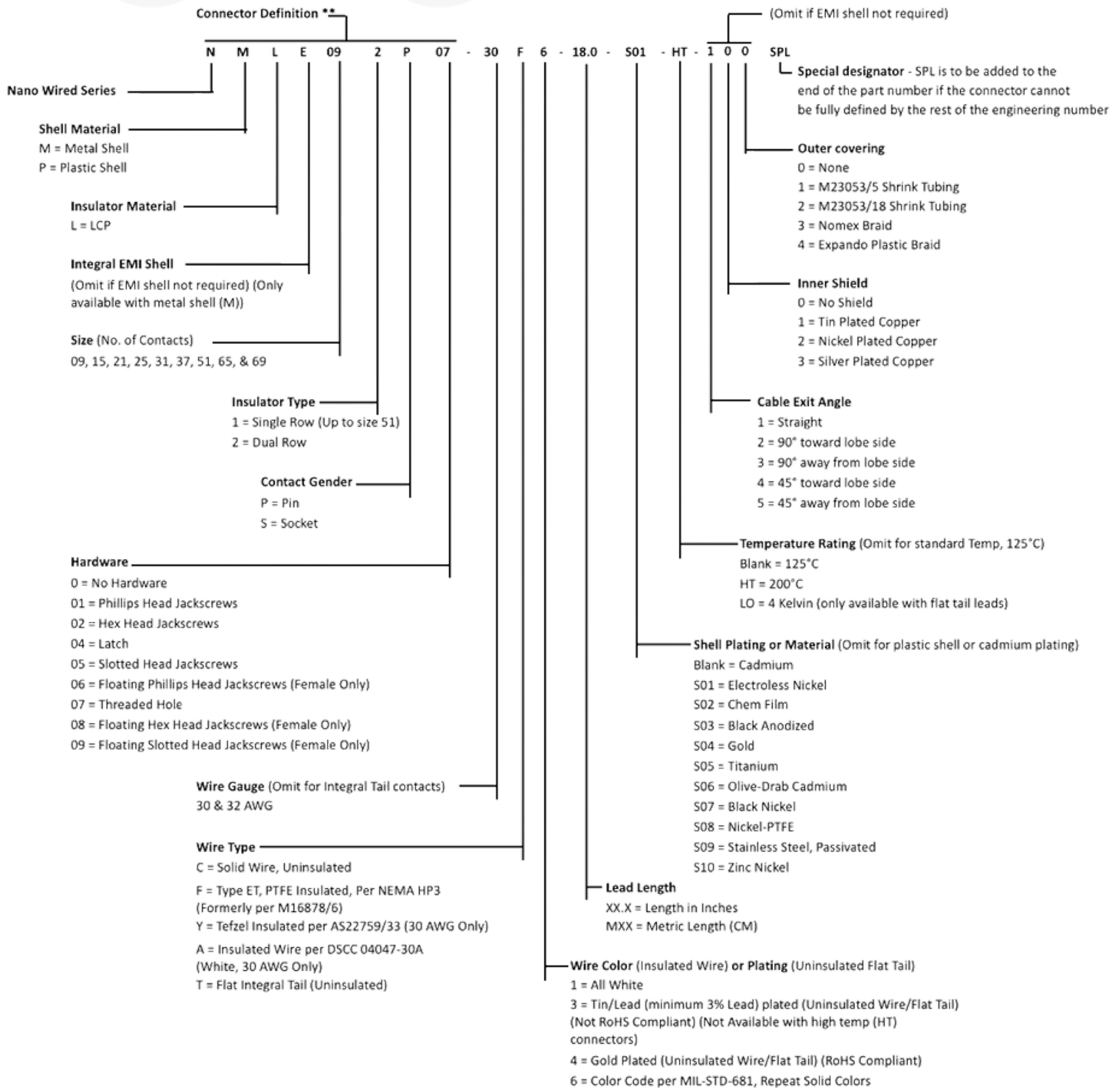
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MATERIALS

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

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HOW TO ORDER



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