

Dual Row Metal Shell Connectors

Winchester Interconnect Micro, formerly known as Ulti-Mate Connector, offers Nano Field Attachable Dual Row Metal Shell Connectors – a durable and compact solution for precision cable connections. These connectors feature a metal shell with flat leads, providing excellent shielding and mechanical protection. With an operating temperature range of -55°C to 125°C and high-temperature versions available up to 200°C (add HT), they are built to perform in harsh environments. Available in 9 to 65 contact configurations, these connectors are QPL qualified to MIL-DTL-32139, ensuring military-grade reliability and consistency.

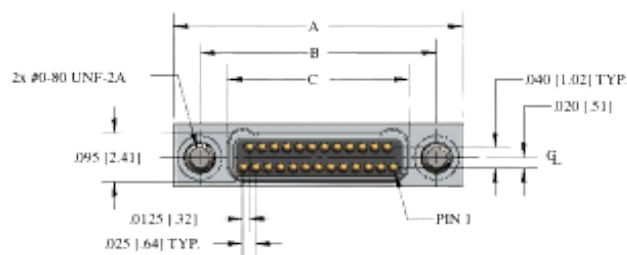
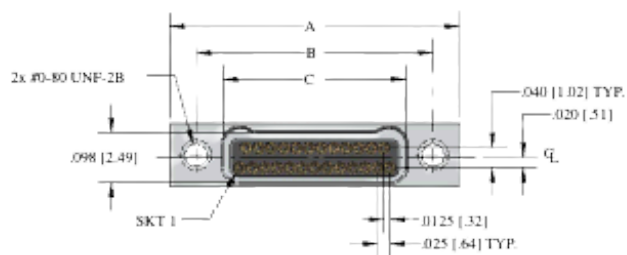
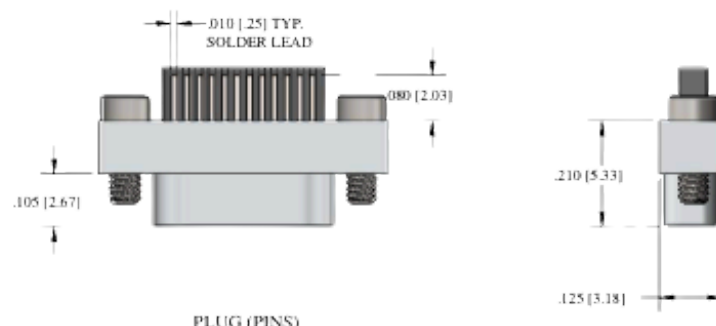
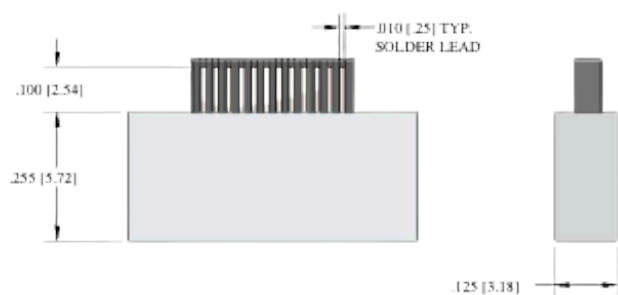


KEY FEATURES & BENEFITS

- Metal Shell Construction – Provides superior durability and EMI/RFI protection.
- Field-Attachable Design – Enables easy and secure assembly for on-site applications.
- Wide Operating Temperature Range – Performs reliably from -55°C to 125°C , extendable to 200°C (HT option).
- Flexible Contact Options – Available with 9 to 65 contacts to meet varied design needs.
- QPL Qualified to MIL-DTL-32139 – Ensures compliance with military and aerospace standards.
- Reliable Mechanical Performance – Engaging force of 5 oz max, separation force of 0.4 oz min, and mating/unmating force of 7 oz $\times$ number of contacts for secure connections.

Nano Field Attachable Dual Row Metal

DIMENSIONAL



Size	A	B	C	
			Plug	Receptacle
9	.500 [12.70]	.395 [10.03]	.284 [7.21]	.285 [7.24]
15	.650 [16.51]	.545 [13.84]	.434 [11.02]	.435 [11.05]
21	.800 [20.32]	.695 [17.65]	.584 [14.83]	.585 [14.86]
25	.900 [22.86]	.795 [20.19]	.684 [17.37]	.685 [17.40]
31	1.050 [26.67]	.945 [24.00]	.834 [21.18]	.835 [21.21]
37	1.200 [30.48]	1.095 [27.81]	.984 [24.99]	.985 [25.02]
51	1.550 [39.37]	1.445 [36.70]	1.334 [33.88]	1.335 [33.91]

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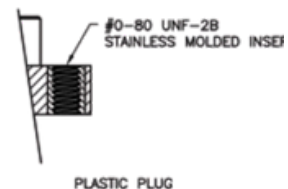
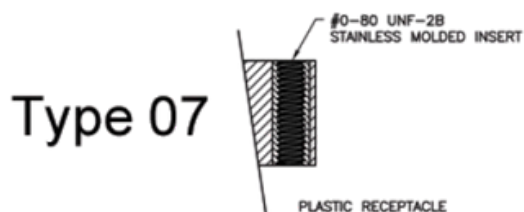
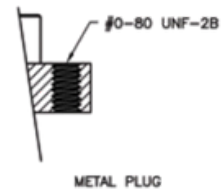
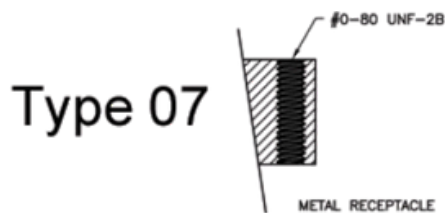
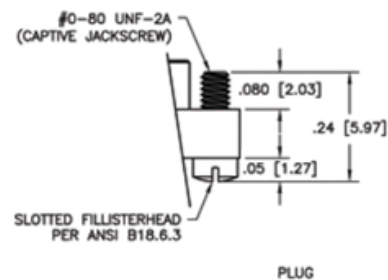
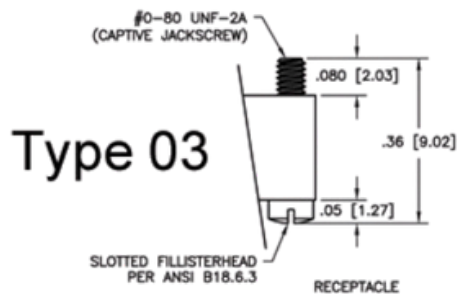
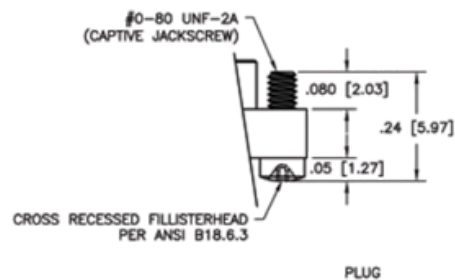
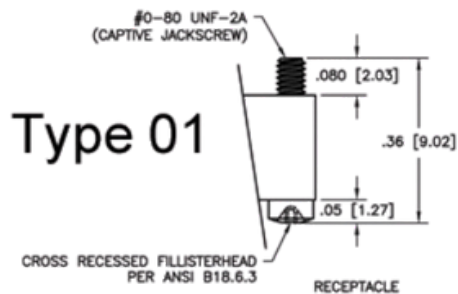
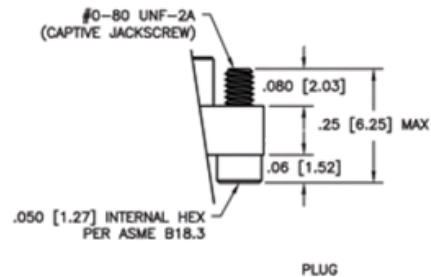
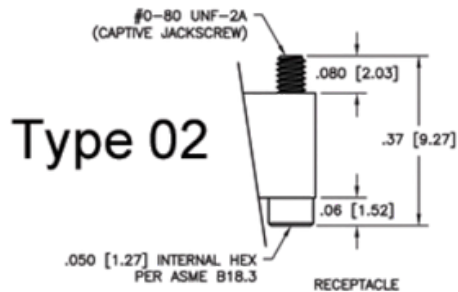
PERFORMANCE

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
Salt Spray	EIA 364-26 Condition B-48 hours

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HARDWARE



MATERIALS

Materials and Finishes	
Signal Pin Contacts	C17410 Beryllium Copper per ASTM B768
Signal Socket Contacts	C17410 Beryllium Copper per ASTM B768
Contact Plating	Gold Plating per ASTM B488
PC Tails	C17410 Beryllium Copper per ASTM B768
PC Tail Plating	60/40 Tin/Lead plating per SAE-AMS-P-81728, or 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

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HOW TO ORDER

