

Dual Row Plastic Shell Connectors

Winchester Interconnect offers Nano Field Attachable Dual Row Plastic Shell Connectors, designed for precision and reliability in compact interconnect applications. These circular plastic, field-attachable inline connectors feature a field-solderable design with flat leads, ensuring ease of use and dependable performance. Operating within a temperature range of -55°C to 125°C , and available in high-temperature versions up to 200°C (add HT), they are built to perform in a variety of demanding environments. Equipped with 7 contacts, these connectors are QPL qualified to MIL-DTL-32139, meeting stringent military and aerospace standards.

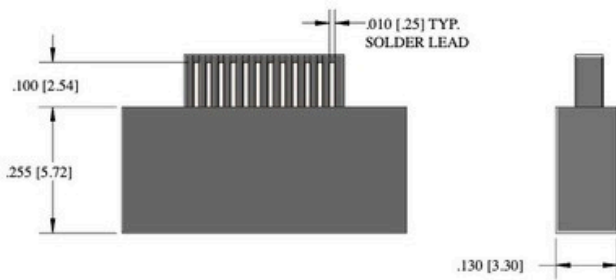


KEY FEATURES & BENEFITS

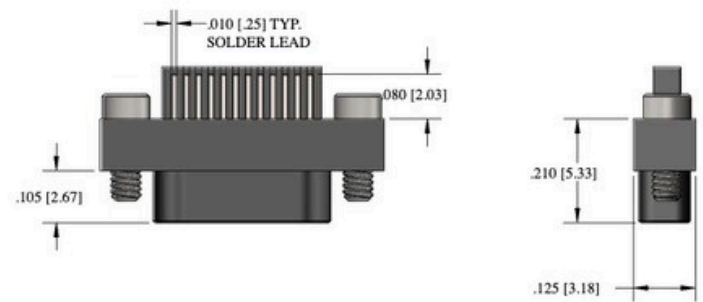
- Lightweight Plastic Shell Design – Offers durability with reduced weight for compact system integration.
- Field-Attachable and Solderable – Simplifies on-site assembly and repair.
- Wide Temperature Range – Operates from -55°C to 125°C , extendable to 200°C (HT option).
- High-Quality Materials – Signal pin and socket contacts made of C17410 Beryllium Copper per ASTM B768 for strength and conductivity.
- Reliable Plating Options – Gold plating per ASTM B488; PC tails plated with either 60/40 Tin/Lead or Gold for corrosion resistance.
- QPL Qualified to MIL-DTL-32139 – Ensures dependable performance in mission-critical applications.

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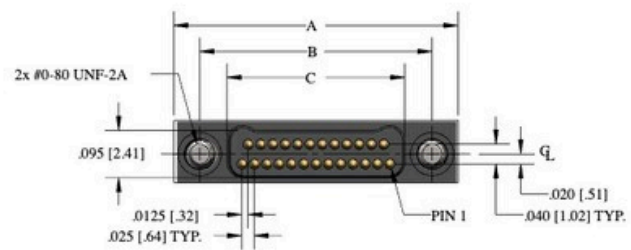
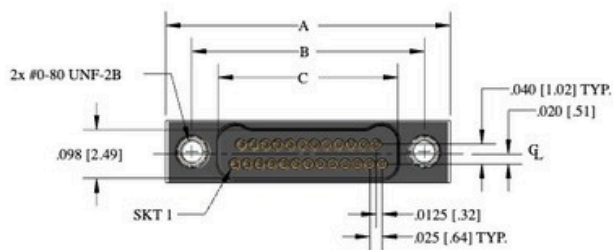
DIMENSIONAL



RECEPTACLE (SOCKETS)



PLUG (PINS)



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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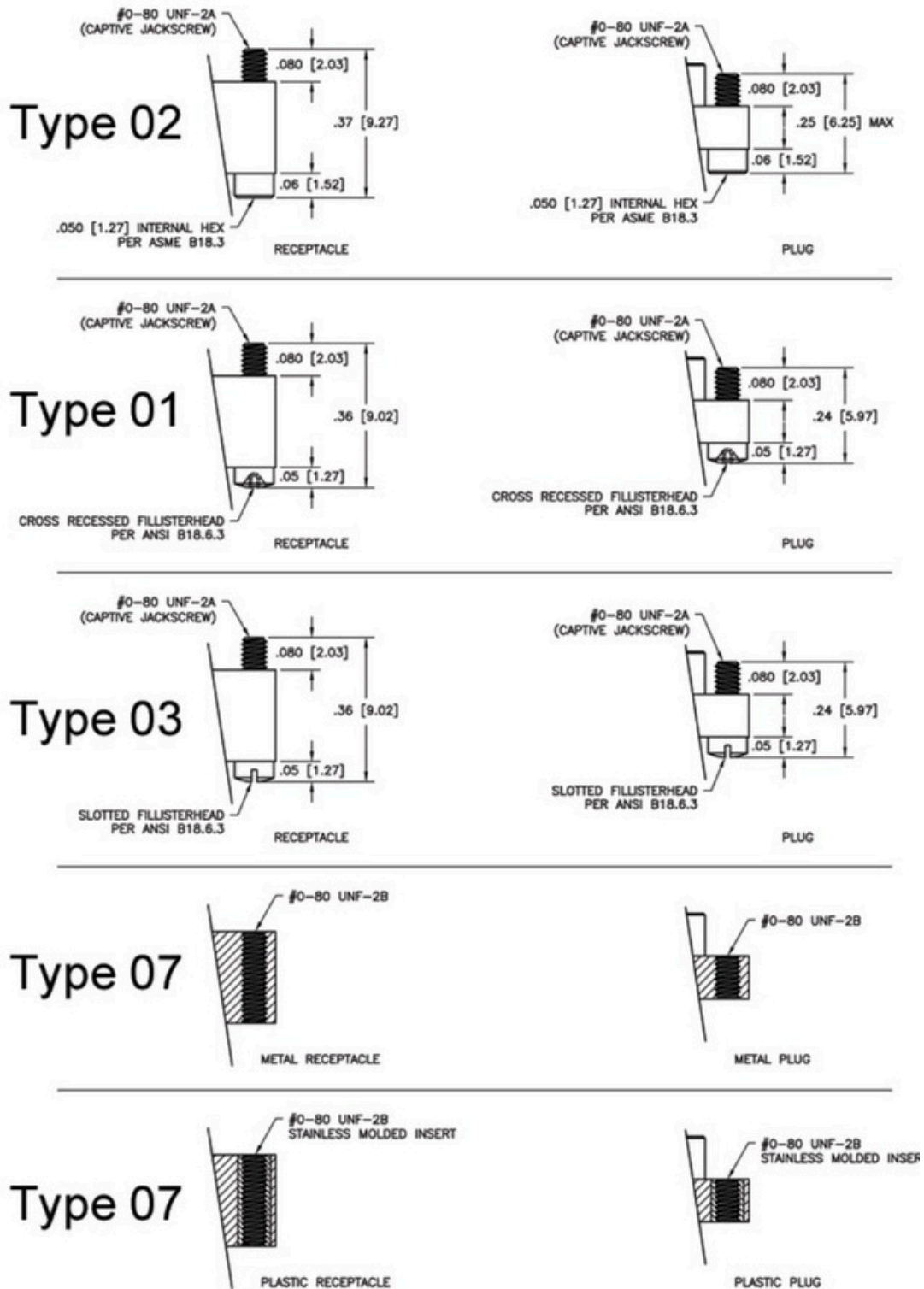
PERFORMANCE

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

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HARDWARE



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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
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

