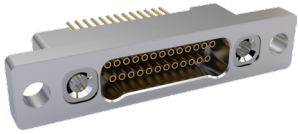


SERIES 89 NANOMINIATURE Dual-Row Rectangular Connectors



891-053 Front Panel Mount Receptacle with Uninsulated Wire

DUAL-ROW RECTANGULAR CONNECTORS



Front Panel Mount Receptacles with Uninsulated Wire Contacts are precision-crimped to solid wire. These nanominiature connectors offer premium performance and reliability for demanding applications. Contact spacing is .025 inches. 1 amp current rating,

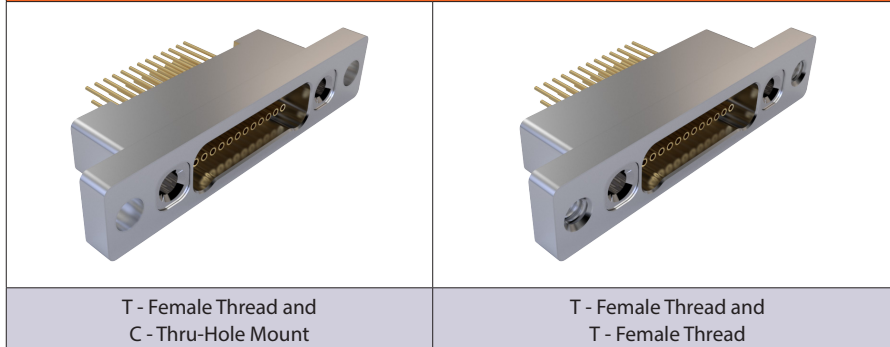
DWV rating 250 volts AC. Wire gages #30 and #32 AWG

Typical Applications include UAV's, satellites, missile systems and geophysical instruments.

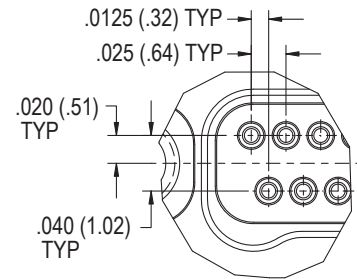
HOW TO ORDER

Sample Part Number	891-053	-25S	A2	-0	D3	-.125	T	C
Series	891-053 = Receptacle							
Insert Arrangement/ Contact Type	9S, 15S, 21S, 25S, 31S, 37S, 41S, 51S, 65S, 69S, 85S, 91S							
Shell Material and Finish	A1 = Aluminum Shell, Cadmium Plating A33 = Aluminum Shell, Nickel PTFE Plating S = Stainless Steel Shell, Passivated		A2 = Aluminum Shell, Electroless Nickel Plating A31 = Aluminum Shell, Zinc Nickel Plating, Black T = Titanium Shell, Unplated					
Wire Gage	0 = #30 AWG 2 = #32 AWG							
Wire Type	D3 = Single Strand Copper Wire, Uninsulated, with Gold Plating							
Wire Length	.070, .125, .250, .375, .500, 1.000							
Hardware Option	T = Female Threads (#0-80 for size 9-69, #2-56 for size 85) (Stainless steel inserts installed in aluminum shells tapped directly into stainless steel and titanium)							
Mounting Hole Option	C = Clearance Hole T = Female Thread							

RECEPTACLE HARDWARE AND MOUNTING HOLE



891-053 DETAIL A



PERFORMANCE SPECIFICATIONS

Contact Spacing: .025" (0.64) contact centers
Wire Accommodation: #30-#32 AWG
Current Rating: 1 AMP maximum tested per EIA-364-70
DWV: 250 VAC RMS sea level, 100 VAC RMS 70,000 feet per EIA-364 Procedure 20
Insulation Resistance: 5000 Megohms minimum test voltage 100 VDC, per EIA-364 Procedure 21

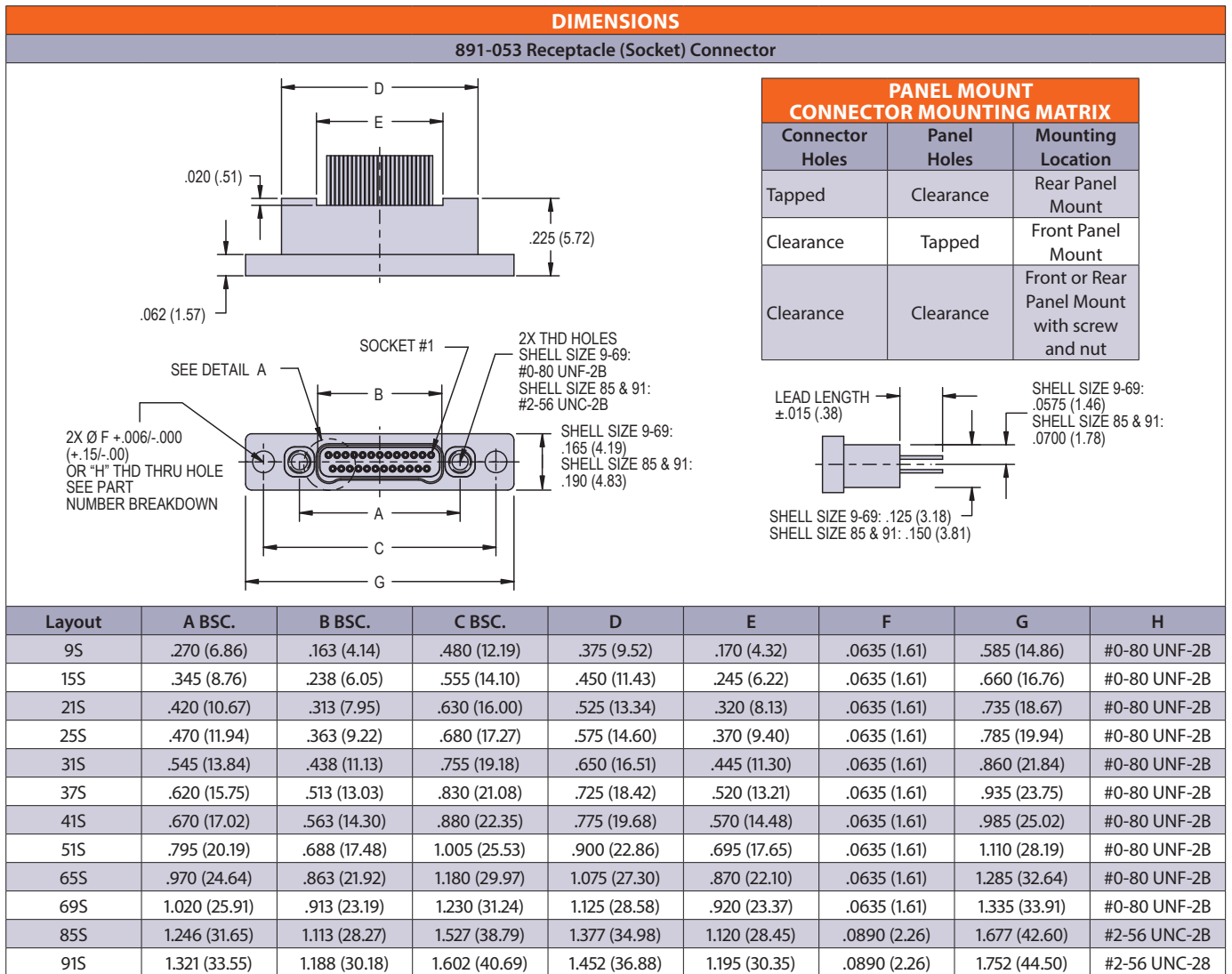
Operating Temperature: -55° C. to +125° C.
Contact Resistance: 71 millivolt drop maximum, 1 AMP current, any catalog supported wire type
Vibration: 20 g's, IAW EIA-364-28, Condition IV
Shock: 100 g's, IAW EIA-364-27, Condition G
Durability: 200 mating cycles per test procedure EIA-364-09

Corrosion Resistance: 48 hours salt spray IAW EIA-364-26, Condition B
Humidity: 240 hours, IAW EIA-364-31, Test Condition B
Contact Engaging/Separation Force: 5 ounce maximum, 0.4 ounce minimum
Thermal Vacuum Outgassing: Total mass loss (TML) 1.0% max., volatile condensable material (VCM) 0.1% max. IAW ASTM E595

SERIES 89 NANOMINIATURE Dual-Row Rectangular Connectors



891-053 Front Panel Mount Receptacle with Uninsulated Wire

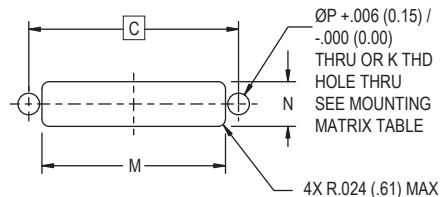


DUAL-ROW RECTANGULAR CONNECTORS

NOTES

- Inspect and test IAW MIL-DTL-32139
- Interface receptacle dimensions per MIL-DTL-32139/4
- Panel cutout sized to allow lobe up or lobe down mounting orientation
- Connector may be mounted to front or back of panel depending on selected mounting hole option
- Recommended panel thickness .100 (2.54) max
- Materials/finishes
 - Shell: see part number break down
 - Insulator: LCP/N/A
 - Contacts: gold alloy / unplated
 - Wire: copper alloy/gold plated
 - Jacking hardware: see part number break down

PANEL MOUNT DIMENSIONS



	SIZE-9	SIZE-15	SIZE-21	SIZE-25	SIZE-31	SIZE-37	SIZE-41	SIZE-51	SIZE-65	SIZE-69	SIZE-85	SIZE-91
C	.480 (12.19)	.555 (14.10)	.630 (16.00)	.680 (17.27)	.755 (19.18)	.830 (21.08)	.880 (22.35)	1.005 (25.53)	1.180 (29.97)	1.230 (31.24)	1.527 (38.79)	1.602 (40.69)
K	#0-80 UNF-2B										#2-56 UNC-2B	
M	.395 (10.03)	.470 (11.94)	.545 (13.84)	.595 (15.11)	.670 (17.02)	.745 (18.92)	.795 (20.19)	.920 (23.37)	1.095 (27.81)	1.145 (29.08)	1.397 (35.48)	1.472 (37.39)
N	.145 (3.68)										.170 (4.32)	
P	.070 (1.78)										.096 (2.44)	