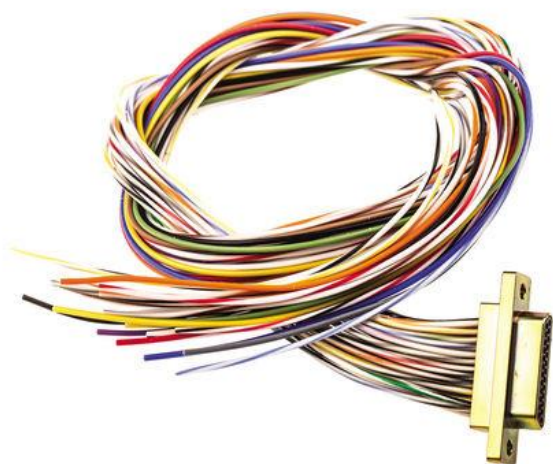


Datasheet

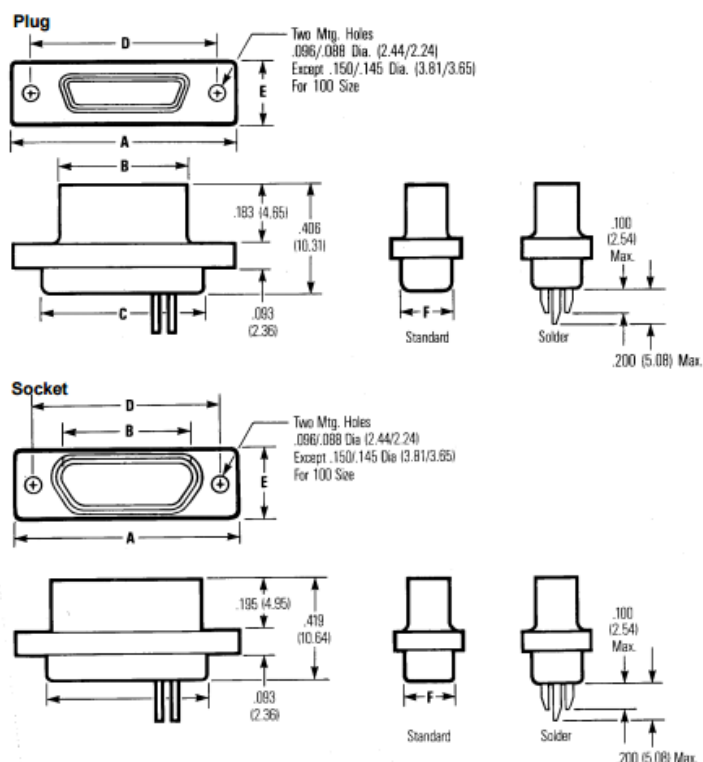
Straight Panel Mount Micro-D Solder Connector

RS Stock 453-921



Dimensions: (mm)

Connector Dimensions - Metal Shell



**Features**

- Both plug and socket available in 9, 15, 21, 25, 31, 37, 51, and 100 positions.
- Several styles of mounting are available for cable-to-cable, cable-to-panel mount, and cable-to-board mount.
- Aluminium shell provides extra strength and EMI/RFI shielding capability. Plating options available.
- Silicone elastomer compression interfacial seal protects contacts from moisture and humidity and isolates contacts from each other and the metal shell.
- Meets requirements of MIL-PRF-83513-D except where noted.
- Rugged twist-pin contacts resistant to shock and vibration make metal shell Micro miniature an excellent choice for harsh environments such as airborne or space applications

Materials

- Insulator: UL94V-0 rated glass-filled polyester or diallyl phthalate
- Contacts: Pins - Copper alloy, Sockets - Copper alloy (machined)
- Contact Plating: .1,27 μ gold
- Shell: Aluminium alloy
- Shell Plating: Yellow chromate over cadmium or electro less nickel

Environmental

- Operating Temperature: -55°C to +135°C

Electrical

- Current Rating: 3 Amps maximum
- Withstanding Voltage: 600 VAC RMS @ sea level
- Contact Resistance: 8 milliohms maximum

Mechanical

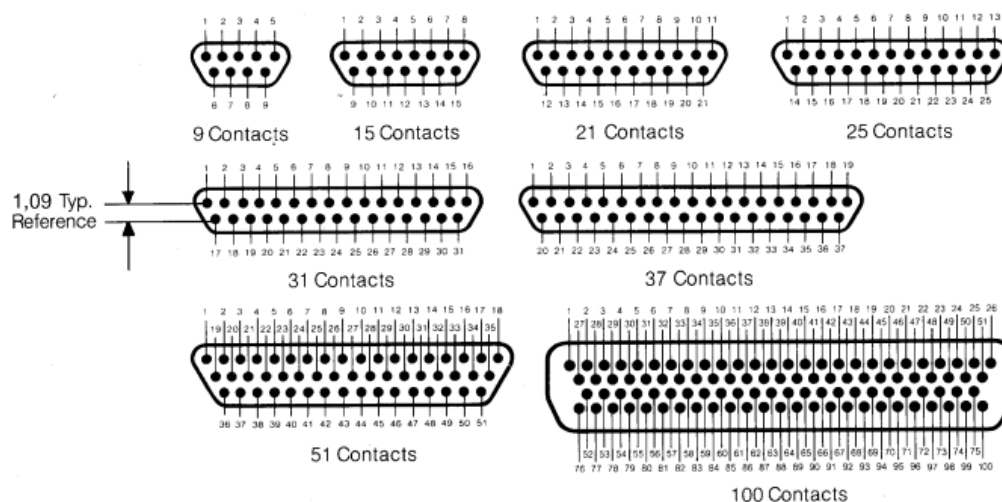
- Individual Contact: 6 oz. (170.40 g) maximum insertion; 0.5 oz. (14.20 g) minimum withdrawal
- Mating / Un-mating Force: See table

No. of Contacts	Maximum Mating Force		Minimum Unmating Force	
	Lb.	Kg	Lb.	Kg
9	5.63	2.56	.28	.13
15	9.38	4.26	.47	.21
21	13.13	5.96	.66	.30
25	15.63	7.10	.78	.35
31	19.38	8.80	.97	.44
37	23.13	10.50	1.16	.53
51	31.88	14.47	1.59	.72
100	62.50	28.38	3.13	1.42

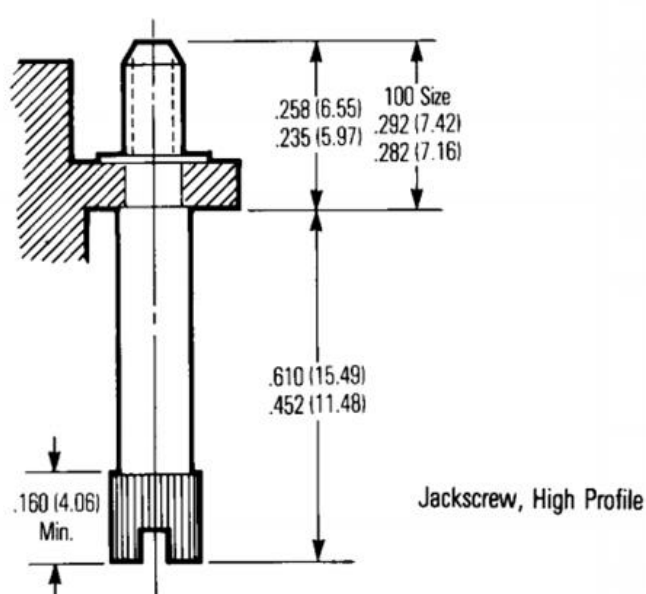
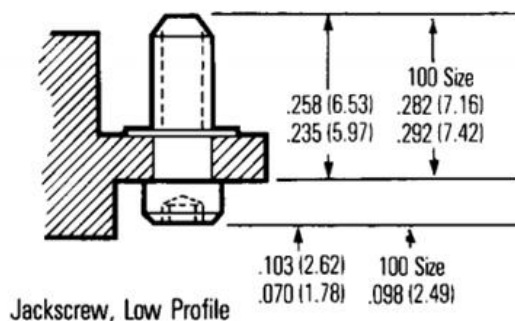
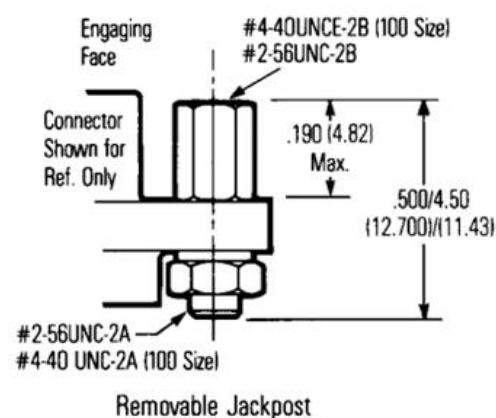
Contact Arrangements

(Face view of pin insert)

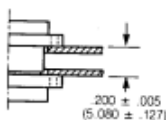
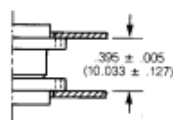
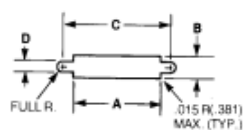
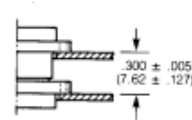
(Use reverse order for socket side)



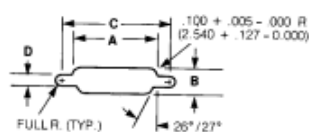
Mounting Hardware



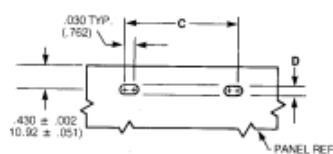
Panel Mounting Dimensions - Metal Shell
Panel Mounting Dimensions

 Pin and socket,
rear mounted

 Pin and socket,
front mounted

 Pin, front mounted
Socket, rear mounted

Front Mounting
Panel Cutout Dimensions - Metal Shell

No. of Contacts	A		B		C		D	
	+.004" (.101mm) -.000" (.000mm)		+.004" (.101mm) -.000" (.000mm)		+.005" (.127mm) -.000" (.000mm)		+.005" (.127mm) -.000" (.000mm)	
	in	mm	in	mm	in	mm	in	mm
9	.408	10.36	.270	6.86	.570	14.48	.089	2.26
15	.558	14.17	.270	6.86	.720	14.48	.089	2.26
21	.708	17.98	.270	6.86	.870	22.10	.089	2.26
25	.808	20.52	.270	6.86	.970	24.64	.089	2.26
31	.958	24.33	.270	6.86	1.120	28.45	.089	2.26
37	1.108	28.14	.270	6.86	1.270	32.26	.089	2.26
51	1.058	26.87	.315	8.00	1.220	30.99	.089	2.26
100	1.450	36.84	.361	9.17	1.805	45.86	.117	2.97


Rear Mounting

No. of Contacts	A		B		C		D	
	+.004" (.101mm) -.000" (.000mm)		+.004" (.101mm) -.000" (.000mm)		+.005" (.127mm) -.000" (.000mm)		+.005" (.127mm) -.000" (.000mm)	
	in	mm	in	mm	in	mm	in	mm
9	.408	10.36	.256	6.50	.570	14.48	.089	2.26
15	.558	14.17	.256	6.50	.720	18.29	.089	2.26
21	.708	17.98	.256	6.50	.870	22.10	.089	2.26
25	.808	20.52	.256	6.50	.970	24.64	.089	2.26
31	.958	24.33	.256	6.50	1.120	28.45	.089	2.26
37	1.108	28.14	.256	6.50	1.270	32.26	.089	2.26
51	1.058	26.87	.300	7.62	1.220	30.99	.089	2.26
100	1.450	36.84	.338	8.58	1.805	45.86	.117	2.97


Edgeboard Mounting

No. of Contacts	C		D	
	+.005" (.127mm) -.000" (.000mm)		+.005" (.127mm) -.000" (.000mm)	
	in	mm	in	mm
9	.570	14.48	.089	2.26
15	.720	18.29	.089	2.26
21	.870	22.10	.089	2.26
25	.970	24.64	.089	2.26
31	1.120	28.45	.089	2.26
37	1.270	32.26	.089	2.26
51	1.220	30.99	.089	2.26
100	1.805	45.86	.117	2.97