

Features

- Solder Cup, gold plated solid wire, and insulated wire leads for cable-to-cable and cable-to-panel applications
- Available in plug and socket styles
- Contact positions: 9, 15, 21, 25, 31, 37, 51, and 100
- Metal shell provides EMI/RFI shielding capability
- Space quality furnished with nickel-plated metal shells and diallyl phthalate insulators. All materials used pass the thermal vacuum outgassing requirements of MIL-C-83513

Electrical

- Withstanding Voltage:** 600 VAC rms @ sea level
- Current Rating:** 3 Amps
- Contact Resistance:** 8 Milliohms maximum
- Insulation Resistance:** 5000 Megohms minimum

Accessories

Mounting Hardware: There are several styles of mounting hardware available for MIL-C-83513 D-Microminiature connectors.

Performance Data

Materials

Insulation Material: UL 94V-0 rated glass-filled thermoplastic MIL-M-24519 or diallyl phthalate, MIL-M-14

Contact Material: Copper alloy

Contact Plating: Gold

Shell Material: Aluminum alloy

Shell Plating: Cadmium with yellow chromate coating or electroless nickel

Environmental

Individual Contact Insertion and Separation Force: 6 oz (170.40g) maximum; 0.5 oz (14.20g) minimum

Mating/Unmating Force

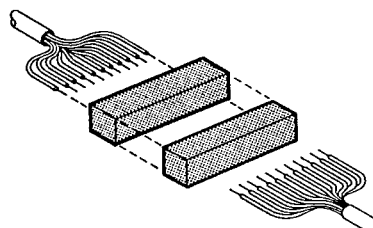
No. of Contacts	Maximum Mating Force		Minimum Unmating Force	
	lbs	Kg	lbs	Kg
9	5.63	2.56	.28	.13
15	9.38	4.26	.47	.21
21	13.13	5.96	.66	.30
25	15.63	7.10	.78	.35
31	19.38	8.80	.97	.44
37	23.13	10.50	1.16	.53
51	31.88	14.47	1.59	.72
100	62.50	28.38	3.13	1.42

Shock: Per MIL-STD-1344, Method 2004, Condition E

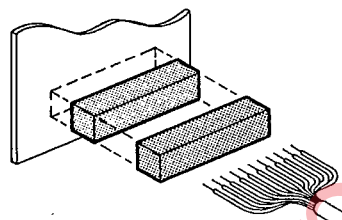
Operating Temperature: -55°C to +125°C

Vibration: Per MIL-STD-1344, Method 2005, Condition IV

Humidity: Per MIL-STD-1344, Method 1002, Type II, omit 7A and 7B



Discrete cable to discrete cable

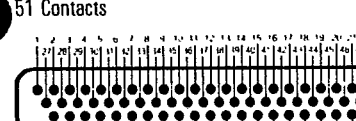
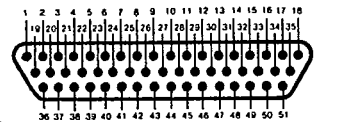
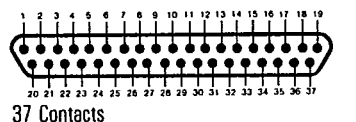
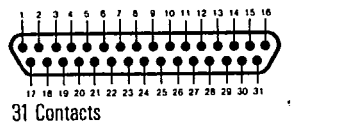
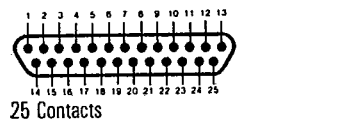
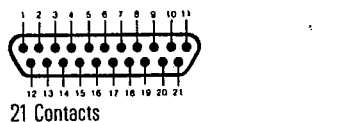
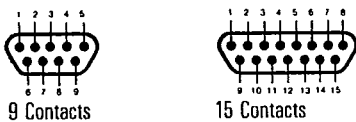


Discrete cable to panel

.050" (1.27mm) Density
Solder Cup/Wire D-Microminiature

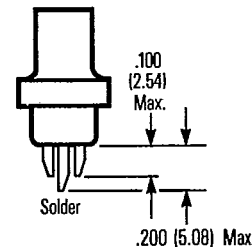
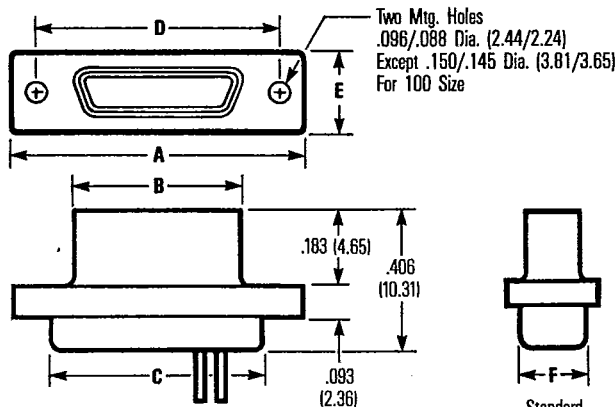
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Contact Arrangements

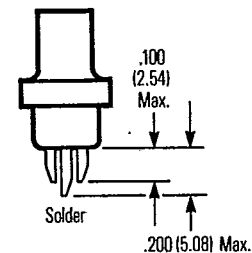
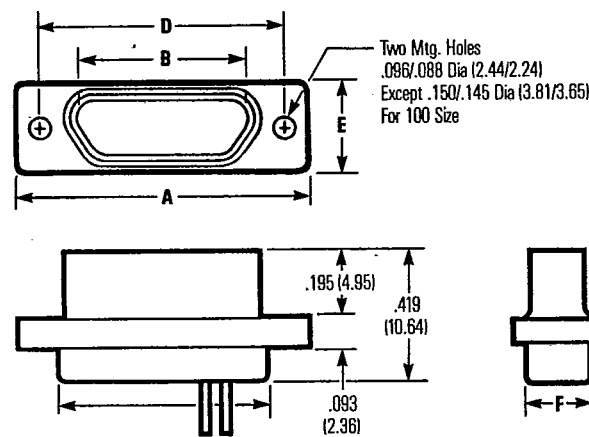


100 Contacts

Plug



Socket



Shell Dimensions

No. of Contacts	A ±.010" (.254mm)		B Max. (Plug) Min. (Socket)		C +.010" (.254mm) -.018" (.457mm)		D ±.005" (.127mm)		E ±.010" (.254mm)		F Max.	
	in.	mm	in.	mm	in.	mm	in.	mm	in.	mm	in.	mm
9 Plug	.775	19.68	.3338	8.48	.390	9.91	.565	14.35	.298	7.57	.270	6.68
9 Socket	.775	19.68	.3342	8.49	.390	9.91	.565	14.35	.298	7.57	.270	6.68
15 Plug	.925	23.50	.4838	12.29	.540	13.72	.715	18.16	.298	7.57	.270	6.68
15 Socket	.925	23.50	.4842	12.30	.540	13.72	.715	18.16	.298	7.57	.270	6.68
21 Plug	1.075	27.30	.6338	16.10	.690	17.53	.865	21.97	.298	7.57	.270	6.68
21 Socket	1.075	27.30	.6342	16.11	.690	17.53	.865	21.97	.298	7.57	.270	6.68
25 Plug	1.175	29.84	.7338	18.64	.790	20.07	.965	24.51	.298	7.57	.270	6.68
25 Socket	1.175	29.84	.7342	18.65	.790	20.07	.965	24.51	.298	7.57	.270	6.68
31 Plug	1.325	33.66	.8838	22.45	.940	23.88	1.115	28.32	.298	7.57	.270	6.68
31 Socket	1.325	33.66	.8842	22.46	.940	23.88	1.115	28.32	.298	7.57	.270	6.68
37 Plug	1.475	37.46	1.0338	26.26	1.090	27.69	1.265	32.13	.298	7.57	.270	6.68
37 Socket	1.475	37.46	1.0342	26.27	1.090	27.69	1.265	32.13	.298	7.57	.270	6.68
51 Plug	1.425	36.20	.9838	24.99	1.040	26.42	1.215	30.86	.341	8.66	.310	7.87
51 Socket	1.425	36.20	.9842	25.00	1.040	26.42	1.215	30.86	.341	8.66	.310	7.87
100 Plug	2.160	54.86	1.3838	35.15	1.432	36.38	1.800	45.71	.384	9.75	.360	9.15
100 Socket	2.160	54.86	1.3842	35.16	1.432	36.38	1.800	45.71	.384	9.75	.360	9.15

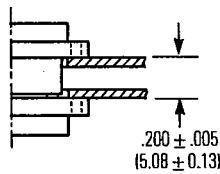
DURA-CON® High Reliability

.050" (1.27mm) Density

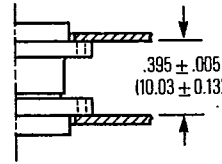
Metal Shell MIL-C-83513

Solder Cup/Wire D-Microminiature

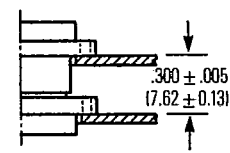
Panel Mounting Dimensions



Plug and socket, rear mounted

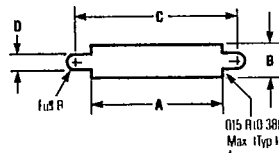


Plug and socket, front mounted

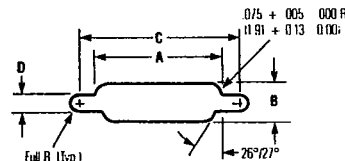


Plug, front mounted; Socket, rear mounted

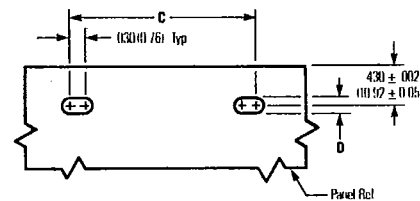
Panel Cutout Dimensions



Front Mounting



Rear Mounting



Edgeboard Mounting

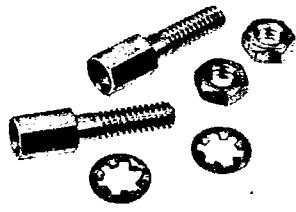
No. of Contacts	A +.004" (.101mm) -.000" (.000mm)		B +.004" (.101mm) -.000" (.000mm)		C +.005" (.127mm) -.000" (.000mm)		D +.005" (.127mm) -.000" (.000mm)	
	in.	mm	in.	mm	in.	mm	in.	mm
9	.408	10.36	.270	6.86	.570	14.48	.089	2.26
15	.558	14.17	.270	6.86	.720	14.48	.089	2.26
21	.708	17.98	.270	6.86	.870	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

No. of Contacts	A +.004" (.101mm) -.000" (.000mm)		B +.004" (.101mm) -.000" (.000mm)		C +.005" (.127mm) -.000" (.000mm)		D +.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

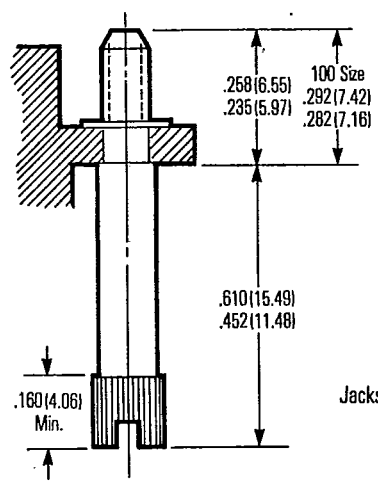
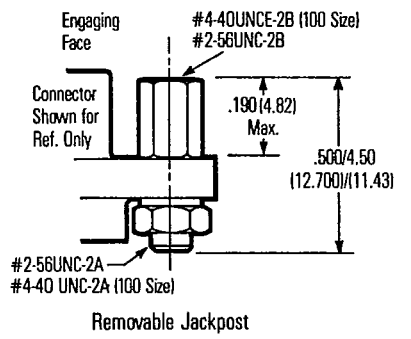
No. of Contacts	C +.005" (.127mm) -.000" (.000mm)		D +.005" (.127mm) -.000" (.000mm)	
	in.	mm	in.	mm
9	.570	14.48	.089	2.26
15	.720	18.29	.089	2.26
21	.870	22.10	.089	2.26
25	.970	24.64	.089	2.26
31	1.120	28.45	.089	2.26
37	1.270	32.26	.089	2.26
51	1.220	30.99	.089	2.26
100	1.805	45.86	.117	2.97

.050" (1.27mm) Density
Solder Cup/Wire D-Microminiature

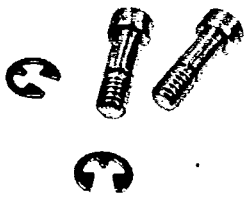
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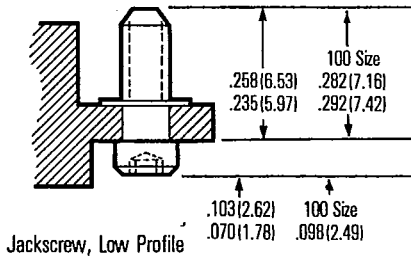
Removable Jackpost



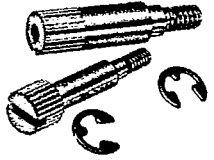
Jackscrew, High Profile



Jackscrew, Low Profile



Jackscrew, Low Profile



Removable Jackscrew Kit, High Profile

Mounting Hardware

Type	Style	Screwhead	Thread	Military Part No.	Factory Code
Jackscrew	Low Profile	Recessed Hex	2/56	M83513/5-02	289-00-00-001
Jackscrew	High Profile	Recessed Hex	2/56	M83513/5-03	289-00-00-011
Jackscrew	Low Profile	Slotted	2/56	M83513/5-05	289-00-00-005
Jackscrew	High Profile	Slotted	2/56	M83513/5-06	289-00-00-012
Jackpost	—	—	2/56	M83513/5-07	289-00-00-003
Jackscrew	Low Profile	Hex	1/40*	M83513/5-12	289-00-00-013
Jackscrew	High Profile	Hex	1/40*	M83513/5-13	289-00-00-014
Jackscrew	Low Profile	Slotted	1/40*	M83513/5-15	289-00-00-015
Jackscrew	High Profile	Slotted	1/40*	M83513/5-16	289-00-00-016
Jackpost	—	—	1/40*	M83513/5-17	289-00-00-017

*100 Size Only

Reference Information Only*

Wire Lead Explanation:
Use this to determine wire types for MIL-C-83513 connectors.

M83513/00	A	XX	C
Metal Shell D Plugs, /01 Solder Cup Termination			
Metal Shell D Sockets, /02 Solder Cup Termination			
Metal Shell D Plugs, /03 with Wire Leads			
Metal Shell D Sockets /04 with Wire Leads			

Shell Finish
C = Cadmium
N = Electroless Nickel
 (Space Applications only. Comes with M22759/19 wire in place of M22759/11 wire.)

Insert Arrangement
(No. of Contacts)

A	=	9
B	=	15
C	=	21
D	=	25
E	=	31
F	=	37
G	=	51
H	=	100

Wire type
01 = M22759/11-26-9, 18 inches long, white
02 = M22759/11-26-9, 36 inches long, white
03 = M22759/11-26-(*), 18 inches long
04 = M22759/11-26-(*), 36 inches long
05 = QQ-W-343, Type S, 25 AWG, except shall be gold plated 10 microinches; 0.5 inch long
06 = QQ-W-343, Type S, 25 AWG, except shall be gold plated 10 microinches; 1.0 inch long
07 = QQ-W-343, Type S, 25 AWG, tin plated 100 microinches; 0.5 inch long
08 = QQ-W-343, Type S, 25 AWG, tin plated 100 microinches; 1.0 inch long
 * - Color Coded Wires