

# Technical Specifications

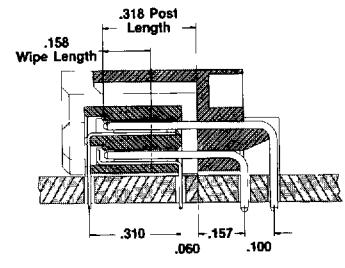
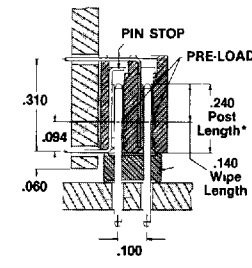
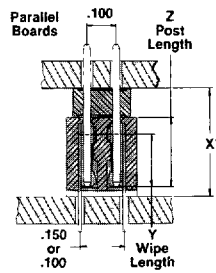
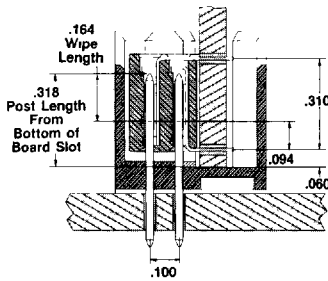
# ELCO

## Technical Data

**Series**  
**8251**  
**8352**  
**8275**  
**8281**  
**8381**

Basic grid	100 (2.54) x 100 (2.54)
Insertion Force	1-6 oz per contact
Withdrawal force	75 oz min. per contact
Contact resistance	12 milliohms max. for gold plating
Current rating	3 amperes continuous current shall not cause a temperature rise greater than 30°C above ambient
Insulation resistance	5,000 megohms min. at 500 VDC
Dielectric withstanding voltage	1,000 VAC ms at sea level
Operating temperature	-55°C to +105°C
Insulator material	Thermoplastic polyester, 94 V-O, UL rated
Socket contact material	Phosphor bronze
Pin contact material	Phosphor bronze
Wrap post dimension	.025 x .025
Push-out force of post in insulator	8251 - 3 lbs., 8352 - 2 lbs., Straight post headers - 3 lbs., Compliant post headers - 1 lb.
Contact plating	Gold over nickel (see table this page) tin/lead

## Design Aids



Max. Post Length .300  
 Min. Recommended Post Length .170

STANDARD	X	Y	Z
265	.365	.178	.240
.335	.435	.168	.300

\*This dimension can be accommodated to any size between 450 max. and 265 min. Tooling charges may apply. Consult factory for details.

**Features**  
**Pin Stop.**  
**Preload - to reduce insertion force & to insure interface alignment**

PLATING DESCRIPTION					
<b>MATING AREA</b>	30 Gold	15 Gold	30 Gold	15 Gold	100/200 Tin Lead
<b>TAIL AREA</b>	Flash	Flash	100/200 Tin Lead	100/200 Tin Lead	100/200 Tin Lead

U.L. Recognized

E27610 (M)

Consult factory for additional plating

## Unshrouded Single Row

### Ordering Code

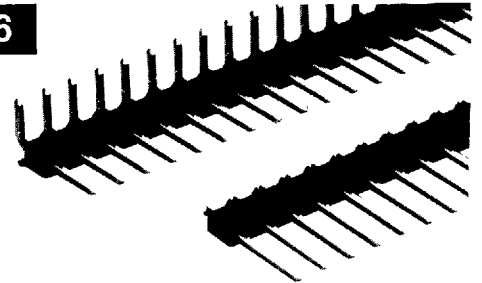
Typical Example **00 8275 001 244 026**

**SERIES NUMBER** \_\_\_\_\_

**NUMBER OF CONTACTS** \_\_\_\_\_

001 thru 050

**CONTACT CODE** \_\_\_\_\_



CODE NO.	DESCRIPTION	G DIM.	H DIM.	J DIA.
110	Solder Tail-Straight Contact	.318 (8,08)	.125 (3,18)	.035 (0,89)
244	Solder Tail-Straight	.230 (5,84)	.120 (3,05)	.035 (0,89)
129	Solder Tail-Right Angle Contact	.318 (8,08)	.120 (3,05)	.035 (0,89)
204	Solder Tail-Right Angle Contact	.230 (5,84)	.120 (3,05)	.035 (0,89)

### VARIATION CODE

30 Gold	15 Gold	100-200 Tin-Lead	MATING AREA
100-200 Tin-Lead	100-200 Tin-Lead	100-200 Tin-Lead	TAIL AREA
VARIATION CODE			DESCRIPTION
026	076	090	Straight Contact with Insulator .230 & .240 Mating
999	998	911	Straight Contact with Insulator .318 Mating
028	078	092	Right Angle Contact with Insulator .230 & .240 Mating
029	079	093	Right Angle Contact with Insulator .300 & .318 Mating

Available with Press-Fit Tails.  
Additional plating and tail lengths also available.  
Please contact factory.

■ Recommended for standard applications. Available through ELCO franchised distributors

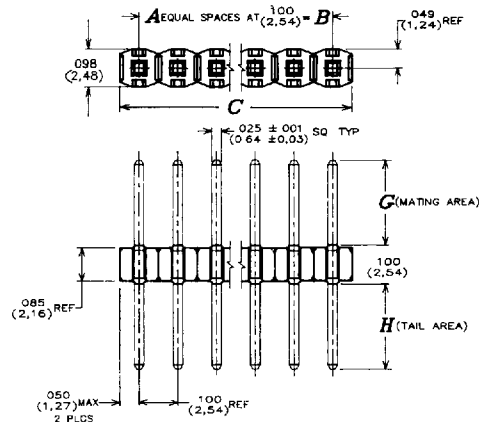
NUMBER OF POSITIONS	B
1	—
2	100 2 54
3	.200 5 08
4	.300 7 62
5	.400 10 16
6	.500 12 70
7	.600 15 24
8	.700 17 78
9	.800 20 32
10	.900 22 86
11	1 000 25 40
12	1 100 27 94
13	1 200 30 48
14	1 300 33 02
15	1 400 35 56
16	1 500 38 10
17	1 600 40 64
18	1 700 43 18
19	1 800 45 72
20	1 900 48 26
21	2 000 50 80
22	2 100 53 34

Number of Positions  
(continued)

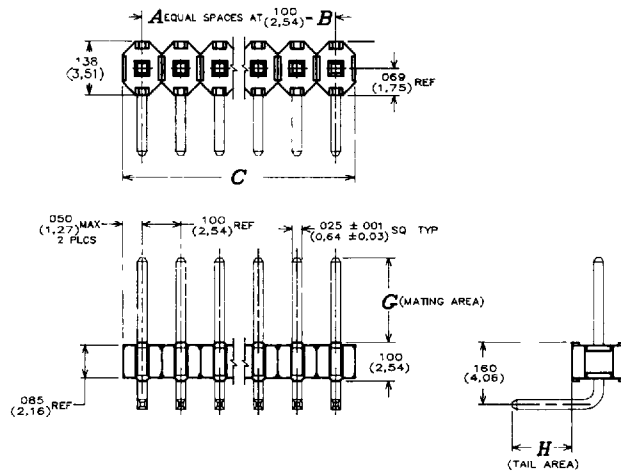
Unshrouded  
Single Row

NUMBER OF POSITIONS	B
23	2 200 55 80
24	2 300 58 42
25	2 400 60 96
26	2 500 63 50
27	2 600 66 04
28	2 700 68 58
29	2 800 71 12
30	2 900 73 66
31	3 000 76 20
32	3 100 78 74
33	3 200 81 28
34	3 300 83 82
35	3 400 86 36
36	3 500 88 90
37	3 600 91 44
38	3 700 93 98
39	3 800 96 52
40	3 900 99 06
41	4 000 101 60
42	4 100 104 14
43	4 200 106 68
44	4 300 109 22
45	4 400 111 76
46	4 500 114 30
47	4 600 116 84
48	4 700 119 38
49	4 800 121 92
50	4 900 124 46

## Straight



## Right-Angle



## P.C. Board Hole Pattern

