

# Technical Specifications

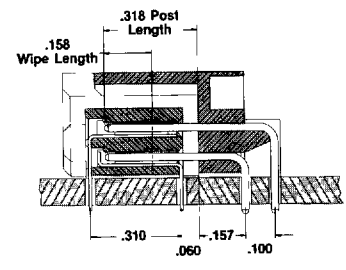
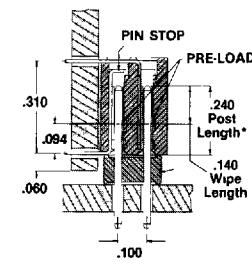
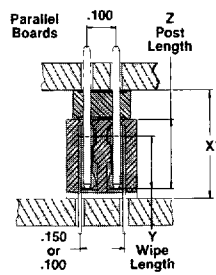
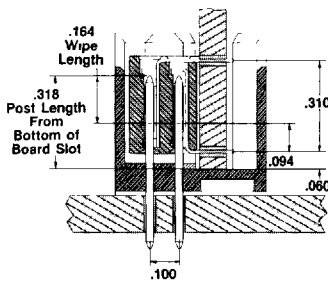
# ELCO

## 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

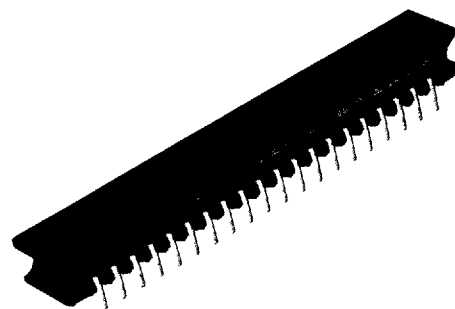
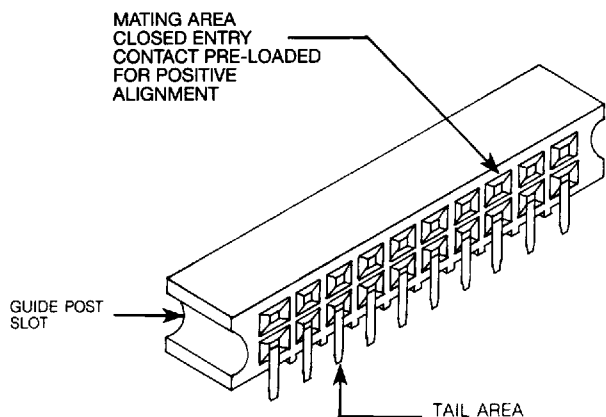
E27610 (M)

Consult factory for additional plating

# Receptacle

# SERIES 8251

## Horizontal with Guide Post Slots Dual Row



### Ordering Code

Typical Example	00	8251	100	000	832
<b>SERIES NUMBER</b>	_____		_____		
<b>NUMBER OF CONTACTS</b>	_____		_____		
010 thru 120, 130, 140, 150, 160 Fully loaded, increments of two (below 120 position)					
<b>CONTACT CODE</b>	_____		_____		
000					
<b>VARIATION CODE</b>	_____		_____		

	PLATING DESCRIPTION				CONTACT TAIL LENGTH H
	30 Gold	15 Gold	30 Gold	15 Gold	
Mating Area	30 Gold	15 Gold	30 Gold	15 Gold	
Tail Area	Gold Flash	Gold Flash	100-200 Tin-Lead	100-200 Tin-Lead	
VARIATION CODE NUMBER					
057	007	832	842		.115 / 2.92
058	008	833	843		.150 / 3.81

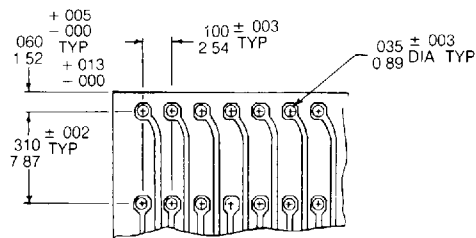
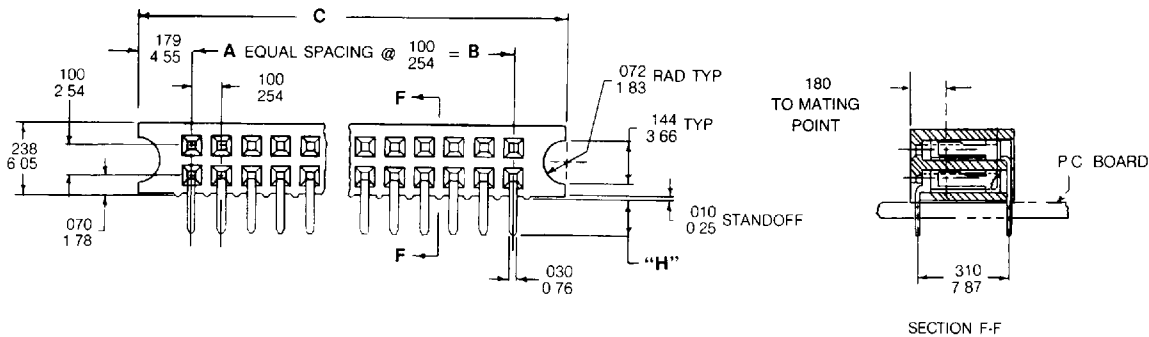
Additional plating and tail lengths available. Consult factory.

■ Recommended for standard applications. Available through ELCO franchised distributors

## Horizontal with Guide Post Slots Dual Row

NUMBER OF POSITIONS	A	B	C
12	5	500 12 70	858 21 79
20	9	900 22 86	1 258 31 95
24	11	1 000 27 94	1 458 37 03
30	14	1 400 35 56	1 758 44 65
36	17	1 700 43 18	2 058 52 27
40	19	1 900 48 26	2 258 57 35
50	24	2 400 60 96	2 758 70 05
60	29	2 900 73 60	3 258 82 75
70	34	3 400 86 36	3 758 95 45
72	35	3 500 88 90	3 858 97 99
80	39	3 900 99 06	4 258 108 15

NUMBER OF POSITIONS	A	B	C
86	42	4 200 106 68	4 558 115 77
90	44	4 400 111 76	4 758 120 85
96	47	4 700 119 38	5 058 128 47
100	49	4 900 124 46	5 258 133 55
110	54	5 400 137 16	5 758 146 25
120	59	5 900 149 86	6 258 158 95
130	64	6 400 162 56	6 758 171 65
140	69	6 900 175 26	7 258 184 35
150	74	7 400 187 96	7 758 197 05
160	79	7 900 200 66	8 258 209 75



RECOMMENDED P.C. BOARD LAYOUT