

Technical Specifications

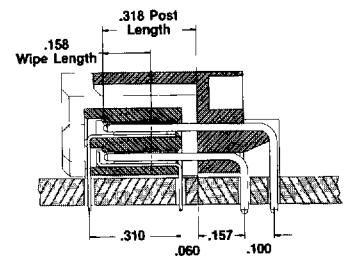
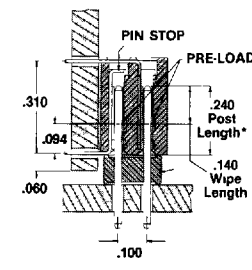
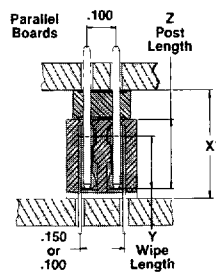
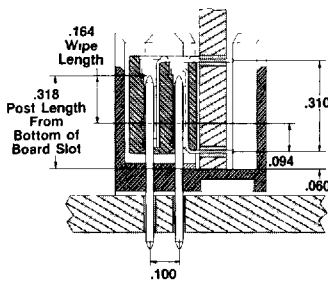
ELCO

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

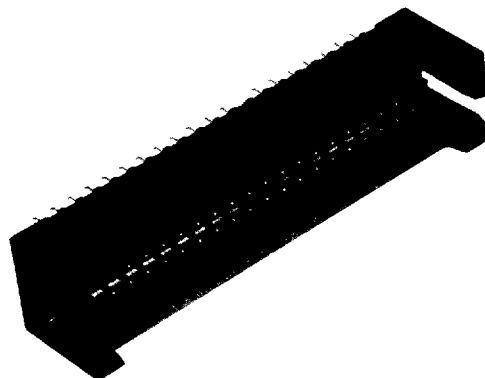
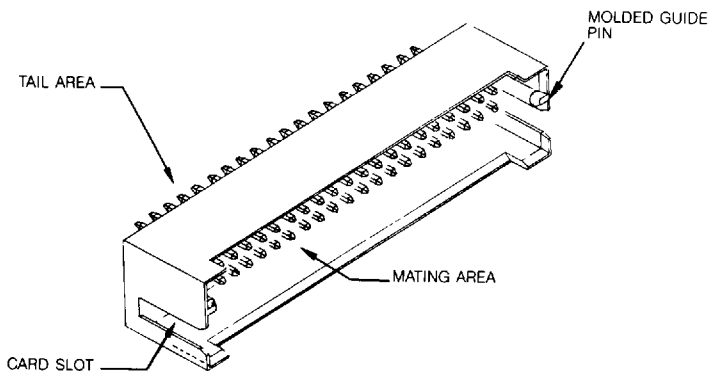
PLATING DESCRIPTION					
MATING AREA	30 Gold	15 Gold	30 Gold	15 Gold	100/200 Tin Lead
TAIL AREA	Flash	Flash	100/200 Tin Lead	100/200 Tin Lead	100/200 Tin Lead

U.L. Recognized

E27610 (M)

Consult factory for additional plating

Shrouded - Four Sides Straight, Solder Tail, Press-Fit Dual Row



Ordering Code

Typical Example **00 8281 020 107 851**

SERIES NUMBER

NUMBER OF CONTACTS

010 thru 120, 130, 140, 150, 160 -
Increments of 2 positions available below 120.

CONTACT CODE

CODE NO.	X = CONTACT TAIL LENGTH	DESCRIPTION
107	180/4.57	Solder Tail-Straight Contact
230	600/15 24	Wire Wrap Tail-Straight Contact
704	170/4 32	Solder Tail-Compliant Contact
720	475/12 07	Wire Wrap Tail-Compliant Contact

VARIATION CODE

PLATING DESCRIPTION				
Mating Area	30 Gold	15 Gold	30 Gold	15 Gold
Tail Area	Gold	Gold	100-200 Tin-Lead	100-200 Tin-Lead
VARIATION CODE NUMBER				
	801	826	851	876

Additional plating and tail lengths available. Consult factory.

NUMBER OF POSITIONS	A	B	C	D
12	5	500 12 70	.980 24 89	900 22 86
20	9	900 22 86	1 380 35 05	1 300 33 02
24	11	1 100 27 94	1 580 40 13	1 500 38 10
30	14	1 400 35 56	1 880 47.75	1 800 45 72
36	17	1 700 43 18	2 180 55 37	2 100 53 34
40	19	1 900 48 26	2 380 60.45	2 300 58 42
50	24	2 400 60 96	2 880 73 15	2 800 71 12
60	29	2 900 73 66	3 380 85 85	3 300 83 82
70	34	3 400 86 36	3 880 98 55	3 800 96 52
72	35	3 500 88 90	3 980 101 09	3 900 99 06
80	39	3 900 99 06	4 380 111 25	4,300 109 22
86	42	4 200 106 68	4 680 118 87	4,600 116 84
90	44	4 400 111 76	4 880 123 95	4 800 121 92
96	47	4 700 119 38	5,180 131 57	5 100 129 54
100	49	4 900 124 46	5,380 136 65	5 300 134 62
110	54	5 400 137 16	5 880 149 35	5 800 147 32
120	59	5 900 149 86	6,380 162 05	6 300 160 02
130	64	6 400 162 56	6 880 174 75	6 800 172 72
140	69	6 900 175 26	7 380 187 45	7 300 185 42
150	74	7 400 187 96	7 880 200 15	7 800 198 12
160	79	7 900 200 66	8 380 212 85	8 300 210 82

Contact Insertion Tool Ordering Code

06 8281 010 010 187

SERIES NUMBER

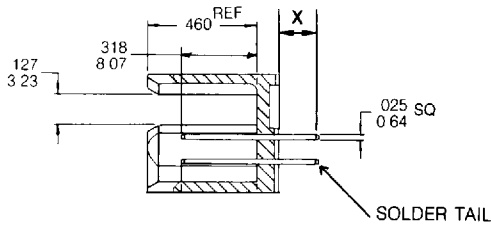
NUMBER OF CONTACTS

10 thru 120, 130, 140, 150, 160

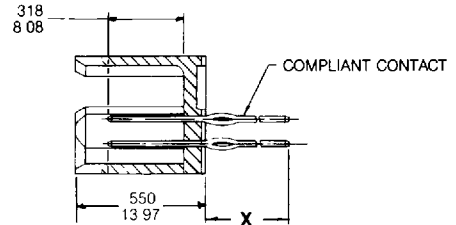


Recommended for standard applications. Available through ELCO franchised distributors.

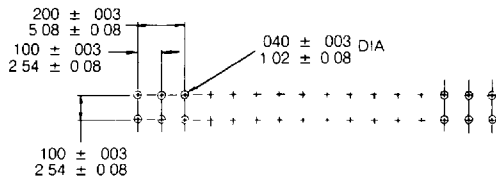
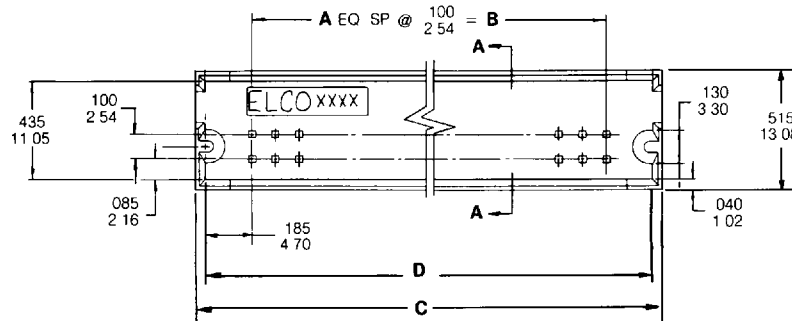
Shrouded-Four Sides Straight, Solder Tail, Press-Fit Dual Row



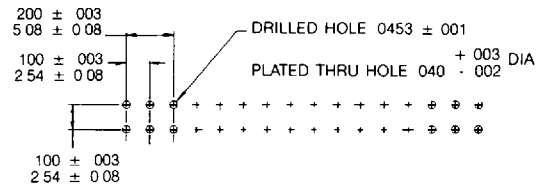
SECTION AA



SECTION AA



RECOMMENDED DRILL PATTERN
FOR SOLDER TAIL



RECOMMENDED HOLE PATTERN
FOR COMPLIANT CONTACT