



A-61-41-07
A-61-41-09 D

Standard Edge II Connectors

Standard Edge II Connectors

Product Facts

- **Maximum number of dual positions**
.100 [2.54] Centerlines-70
.125 [3.18] Centerlines-50
- **Selective gold plating of contacts for high performance at low cost**
- **.025 [0.64] square solid posts meet standard wrap-type specifications**
- **For flow solder applications**
- **Glass-filled polyester housing is 94V-0 rated**
- **Accepts double sided PC boards, .054-.070 [1.27-1.78] thick**
- **Recognized under the Component Program of Underwriters Laboratories Inc., File No. E28476** 
- **Certified by Canadian Standards Association, File No. LR 7189** 

Performance Specifications

Contact Rating*: 3 amperes continuous (UL and CSA)

Contact Resistance: 10 milliohms max.

Operating Temperature: -55°C to +85°C

Voltage Rating (Sea Level):
.100 [2.54] centerline—1000 VAC (test)
.125 [3.18] centerline—1500 VAC (test)

Insulation Resistance: 5000 megohms min., after exposure to humidity

Vibration Tolerance: 10 to 500 hertz

Contact Engagement Force: 12 oz [3.3 N] average per pair with .062 [1.57] PC board

Contact Separation Force: 2 oz [0.6 N] average per pair with .062 [1.57] PC board

Humidity Tolerance: 90%-95% for 96 hours

*Consult AMP engineering when paralleling contacts for power applications.



AMP Standard Edge II Connectors provide high reliability and economy in packages compatible with industry standards for double sided printed circuit boards.

AMP offers Standard Edge II Connectors with or without mounting ears, for rack mounting and soldering. Contacts are arranged on .100 [2.54] centers,

.200 [5.08] row-to-row; and .125 [3.18] centers, .250 [6.35] row-to-row.

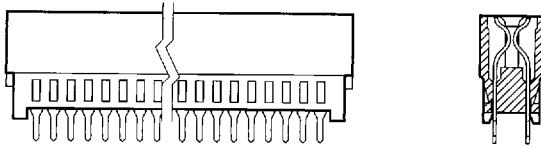
Right-angle connectors are also available with contacts arranged on .100 [2.54] centers, .150 [3.81] row-to-row or .200 [5.08] row-to-row.

Card extenders with contacts on .100 [2.54] and .125 [3.18] centers also are available.

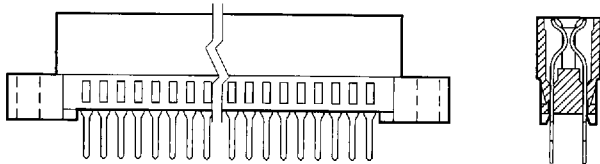
Precision formed phosphor bronze contacts are selectively gold plated. Phosphor bronze has excellent strength characteristics which help the connector absorb load deflection movement of a PC board while maintaining sufficient contact force for good electrical connection. Bifurcated cantilever beam contacts provide redundant contact.

Standard Edge II Connector Styles

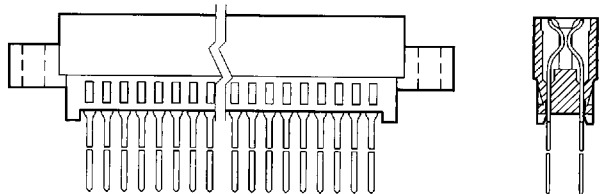
.100 [2.54] and .125 [3.18] Centerline Solder Posts without Mounting Ears
Pages 50 and 51



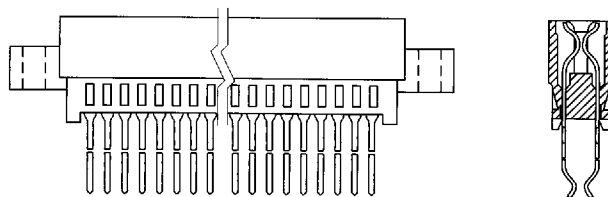
.100 [2.54] and .125 [3.18] Centerline Solder Posts with Low and Mid-High Mounting Ears
Page 52



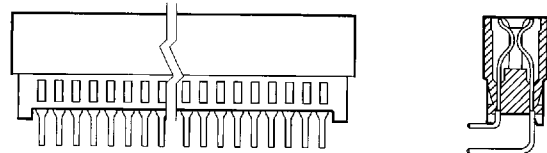
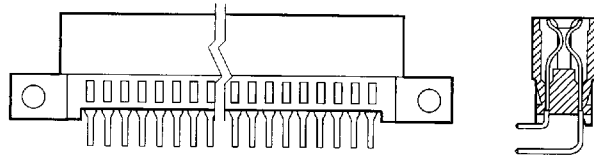
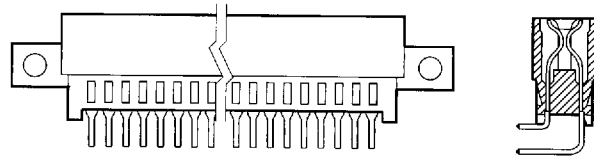
.100 [2.54] and .125 [3.18] Centerline Wrap-Type Posts with Mid-High Mounting Ears
Page 53



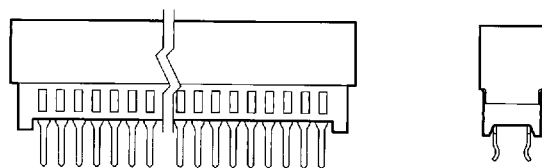
.100 [2.54] and .125 [3.18] Centerline Card Extenders
Page 54



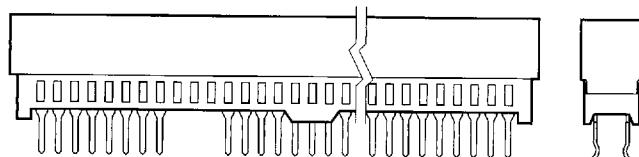
.100 [2.54] Centerline Right-Angle Posts with Low and No Mounting Ears
Page 55



.100 [2.54] Centerline Solder Posts with Board Retention Feature, without Mounting Ears
Page 56



.100 [2.54] Centerline Solder Posts (with Board Retention Feature), Wrap-Type Posts or Card Extender Contacts; Special 18/31 Dual Combination without Mounting Ears
Page 57



07F ■ 0797312 0030675 577 ■

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Standard Edge II Connectors (Continued)

.100 [2.54] Centerline, Vertical Solder Posts, Without Mounting Ears

Material and Finish:

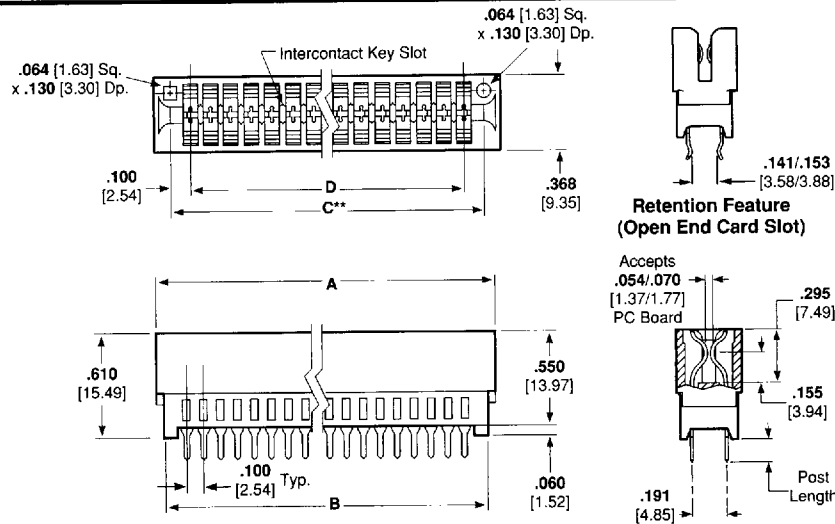
Housing—Black glass-filled polyester, 94V-0 rated

Contacts—Phosphor bronze, duplex plated as follows:

Plating A—.000030 [0.00076] gold in contact area, tin on posts, with entire contact nickel underplated

Plating B—.000015 [0.00038] gold in contact area, tin on posts, with entire contact nickel underplated

Plating C—Gold flash in contact area, tin on posts, with entire contact nickel underplated



Standard Edge II Connectors

Related Product Data:

Performance Specifications—page 48

PC Board Hole Layout—page 58

PC Board Edge Pattern—page 59

Special Application—page 112

Technical Documents

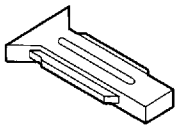
(pages 172, 173):

AMP Product Specification
108-9039

Intercontact Keying Plug

Material:

Natural color polyester



Part No. 650025-2
(.100 [2.54] Centerline)

No. of Dual Positions	Dimensions				Post Length*	Part Numbers		
	A	B	C**	D		Plating A	Plating B	Plating C
3	.560 14.22	.450 11.43	.400 10.16	.200 5.08	.125	7-530843-7	—	—
3	.560 14.22	.450 11.43	Open End	.200 5.08	.125	650263-1 ¹	—	—
6	.860 21.84	.750 19.05	.700 17.78	.500 12.70	.125 .187	7-530843-5 7-530843-6	—	—
10	1.260 32.00	1.150 29.21	1.100 27.94	.900 22.86	.125 .187	5-530843-0 4-530843-9	—	—
12	1.460 37.08	1.350 34.29	1.300 33.02	1.100 27.94	.125 .187	530843-1 1-530843-2	—	—
13	1.460 37.08	1.460 37.08	Open End	1.200 30.48	.125	145118-1 ¹	—	—
15	1.760 44.70	1.650 41.91	1.600 40.64	1.400 35.56	.125 .187	530843-2 1-530843-3	2-530843-6	—
17	1.960 49.78	1.850 46.99	1.800 45.72	1.600 40.64	.125	5-530843-3	—	—
18	2.060 52.32	1.950 49.53	1.900 48.26	1.700 43.18	.125	530843-3	2-530843-7	176137-1 ¹
20	2.260 57.40	2.150 54.61	2.100 53.34	1.900 48.26	.125	5-530843-4	—	—
22	2.460 62.48	2.350 59.69	2.300 58.42	2.100 53.34	.125 .187	530843-4 1-530843-5	—	—
25	2.760 70.10	2.650 67.31	2.600 66.04	2.400 60.96	.125 .187	530843-5 1-530843-6	2-530843-9	—
28	3.060 77.72	2.950 74.93	2.900 73.66	2.700 68.58	.125	530843-6	—	—
30	3.260 82.80	3.150 80.01	3.100 78.74	2.900 73.66	.125 .187	530843-7 1-530843-8	—	—
31	3.360 85.34	3.250 82.55	3.200 81.28	3.000 76.20	.125	6-530843-5	7-530843-0 176138-2 ¹	—
35	3.760 95.50	3.650 92.71	3.600 91.44	3.400 86.36	.125 .187	2-530843-3 2-530843-4	—	—
36	3.860 98.04	3.750 95.25	3.700 93.98	3.500 88.90	.125 .187	530843-8 1-530843-9	—	—
40	4.260 108.20	4.150 105.41	4.100 104.14	3.900 99.06	.187	2-530843-0	—	—
43	4.560 115.82	4.450 113.03	4.400 111.76	4.200 106.68	.125 .187	1-530843-0 2-530843-1	—	—
50	5.260 133.60	5.150 130.81	5.100 129.54	4.900 124.46	.125 .187	1-530843-1 2-530843-2	—	—
52	See page 57 for Special 18/31 connector housing configuration.							
60	6.260 159.00	6.150 156.21	6.100 154.94	5.900 149.86	.125	5-530843-5	—	—
70	7.260 184.40	7.150 181.61	7.100 180.34	6.900 175.26	.125	5-530843-9	—	—

*Metric equivalent for post lengths are .125 = [3.18]; .187 = [4.75].

**C dimension is card slot length.

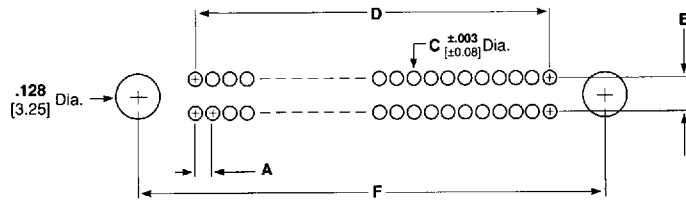
¹Connectors with Retention Feature.

Note: Other connector sizes can be made available, consult AMP.

Recommended PC Board Hole Layouts

Standard Edge II Connectors (Continued)

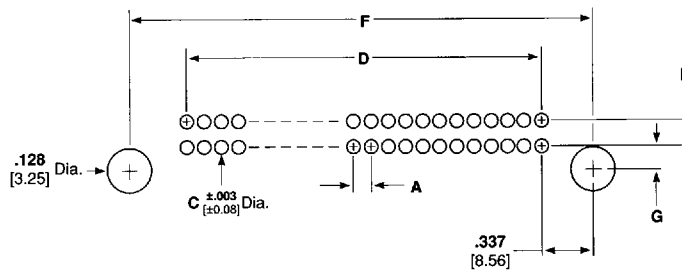
Vertical Post Connectors



Connector Type	Dimensions				
	A	B	C	D	F
Solder Post/Retention	.100 2.54	.200 5.08	.040 1.02	See Note 1	See Note 2
Solder Post, Mounting Ears	.125 3.18	.250 6.35	.040 1.02	See Note 3	See Note 3
Solder Post, W/O Mounting Ears	.100/.125 2.54/3.18	.200/.250 5.08/6.35	.040 1.02	See Note 4	See Note 2
Wrap-Type Post	.100 2.54	.200 5.08	.042 1.07	See Note 5	See Note 5
Wrap-Type Post	.125 3.18	.250 6.35	.042 1.07	See Note 5	See Note 5

- Notes:**
1. Refer to page 56 for **D** Dimensions and Dual Positions.
 2. No mounting ears. Dimensions do not apply.
 3. Refer to page 52 for **D** and **F** Dimensions and Dual Positions.
 4. Refer to pages 50 and 51 for **D** Dimensions and Dual Positions.
 5. Refer to page 53 for **D** and **F** Dimensions and Dual Positions.

Right-Angle Post Connectors



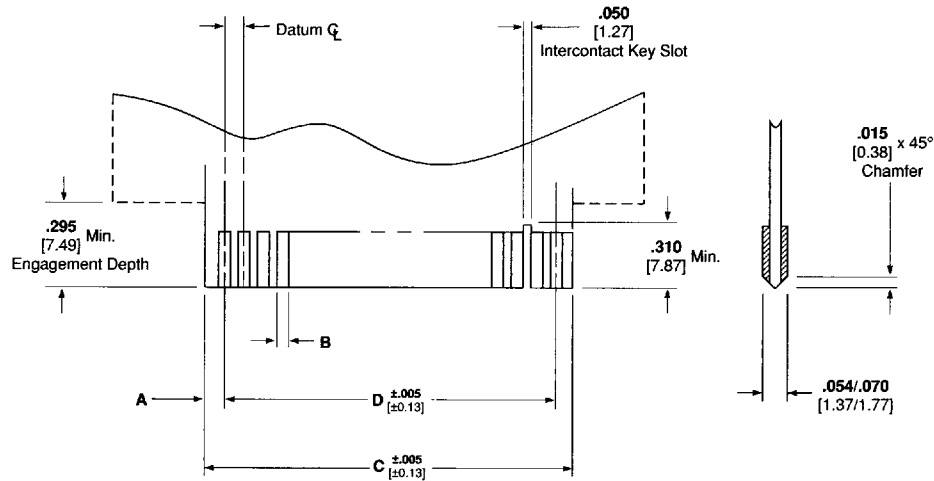
Connector Type	Dimensions					
	A	B	C	D	F	G
Right-Angle Posts, Mounting Ears	.100 2.54	.150 3.81	.042 1.07	See Note 1	See Note 1	.137 3.48
Right-Angle Posts, No Mounting Ears	.100 2.54	.150 or .200 3.81 or 5.08	.042 1.07	See Note 2	See Note 3	See Note 3

- Notes:**
1. Refer to page 55 for **D** and **F** Dimensions and Dual Positions.
 2. Refer to page 55 for **D** Dimensions and Dual Positions.
 3. No Mounting Ears, Dimensions do not apply.

Standard Edge II Connectors (Continued)

Recommended PC Board Edge Pattern

PC Board Edge Pattern for .100 [2.54] and .125 [3.18] Centerline



No. of Dual Positions	.100 [2.54] Centerline A = .093 [2.36] B = .050 [1.27]		.125 [3.18] Centerline A = .118 [3.00] B = .075 [1.90]	
	C	D	C	D
3	.386 9.80	.200 5.08	—	—
6	.686 17.42	.500 12.70	.861 21.87	.625 15.88
10	1.086 27.58	.900 22.86	1.361 34.57	1.125 28.58
12	1.286 32.66	1.100 27.94	—	—
13	1.386 35.20	1.200 30.48	—	—
15	1.586 40.28	1.400 35.56	—	—
17	1.786 45.36	1.600 40.64	—	—
18	1.886 47.90	1.700 43.18	2.361 59.97	2.125 53.98
22	2.286 58.06	2.100 53.34	2.861 72.67	2.625 66.68
25	2.586 65.68	2.400 60.96	—	—
28	2.886 73.30	2.700 68.58	3.611 91.72	3.375 85.73
30	3.086 78.38	2.900 73.66	3.861 98.07	3.625 92.08
31	3.186 80.92	3.000 76.20	3.986 101.24	3.750 95.25
35	3.586 91.08	3.400 86.36	—	—
36	3.686 93.62	3.500 88.90	4.611 117.12	4.375 111.13
40	4.086 103.78	3.900 99.06	5.111 129.82	4.875 123.82
43	4.386 111.40	4.200 106.68	—	—
50	5.086 129.18	4.900 124.46	6.361 161.57	6.125 155.58
60	6.086 154.58	5.900 149.86	—	—
70	7.086 179.98	6.900 175.26	—	—