

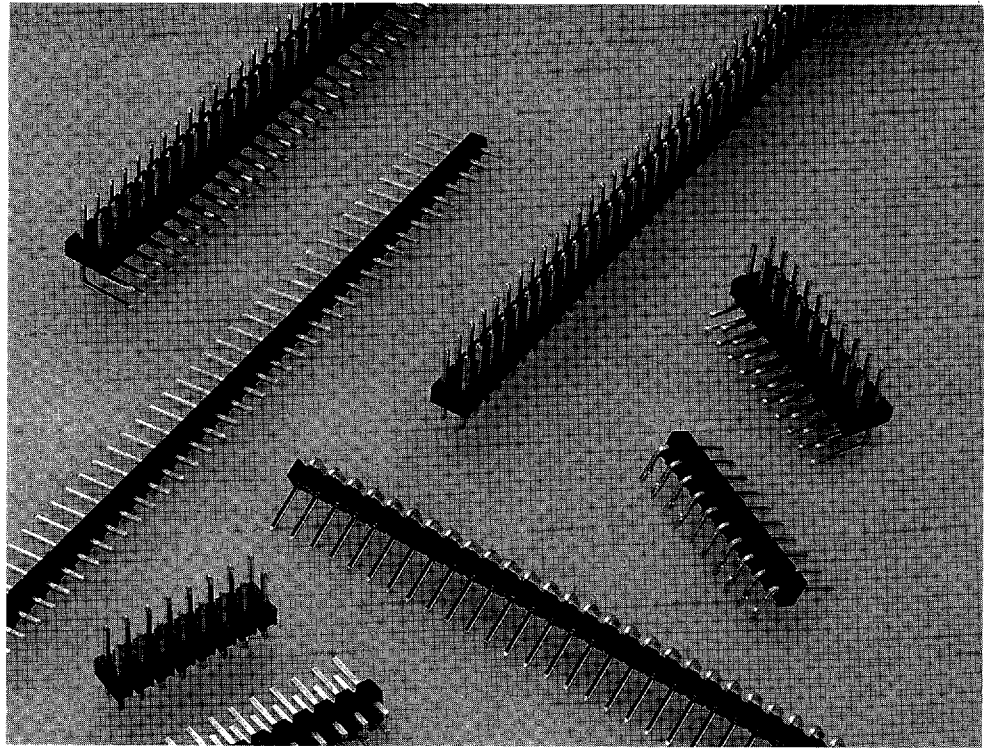


Breakaway and Retention Headers—Unshrouded

Product Facts

- Design and inventory versatility—headers can be broken into any size needed
- Variety of popular sizes available
- Substantial time/labor savings—install all posts at one time
- Vertical and right-angle versions available in single- and double-row configurations
- Phosphor bronze posts
- Choice of gold duplex or tin-lead plated posts
- Post lengths include .230 [5.84] and .318 [8.08] for connector mating
- Board retention feature available
- Flame retardant, black thermoplastic housings; 94V-0 rated
- Recognized under the Component Program of Underwriters Laboratories Inc., File No. E28476 
- Certified by Canadian Standards Association, File No. LR 7189 



Performance Characteristics

Electrical:

Insulation Resistance—5,000 megohms minimum initial

Dielectric Withstanding Voltage—750 V rms at sea level

Environmental:

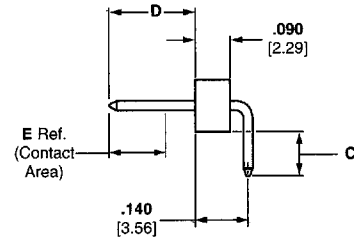
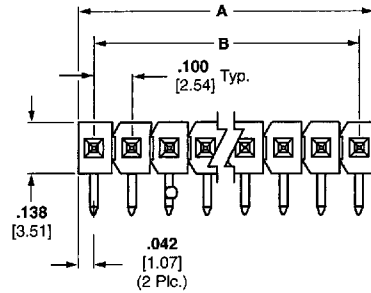
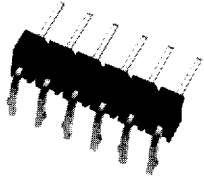
Operating Temperature—
-65°C to +105°C (black thermoplastic housings)

Current—3 amperes maximum per contact

Breakaway and Retention Headers—Unshrouded

Retention Headers—Unshrouded, Single-Row, .100 [2.54] Centers (Continued)

.025 [0.64] Square Right-Angle Post (with Board Retention Feature)



Material and Finish:

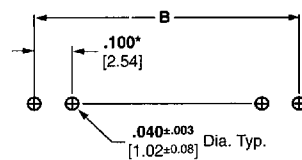
Housing—Black thermoplastic, 94V-0 rated

Posts—Phosphor bronze, plated as follows:

Plating A—Duplex plated .000030 [0.00076] gold on contact area, .000100-.000200 [0.00254-0.00508] tin-lead on solder area, with entire post underplated .000050 [0.00127] nickel

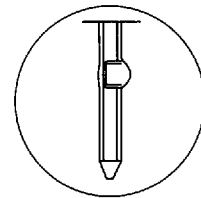
Plating B—Duplex plated .000015 [0.00038] gold on contact area, .000100-.000200 [0.00254-0.00508] tin-lead on solder area, with entire post underplated .000050 [0.00127] nickel

Plating C—.000100-.000200 [0.00254-0.00508] tin-lead over .000050 [0.00127] nickel on entire post



Recommended PC Board Hole Layout (for .055 [1.40] min. thick PC board)

*±.003 [±0.08] tolerances not to accumulate within one connector pattern.



Board Retention using Swaged Tails (All Header Sizes)

Performance Characteristics:

Insertion Force—12 lb. [53.4N] maximum

Retention Force—.25 lb. [1.11N] minimum

Related Product Data:

Mateable Connectors—Refer to the Mating Post Selection Guide (Page 6 or 218)

Technical Documents:

Page 213

No. of Pos.	Dimensions		C = .120 [3.05] D = .230 [5.84] E = .185 [4.70]			C = .110 [2.79] D = .318 [8.08] E = .200 [5.08]		
	A	B	Post Plating/Part Nos.			Post Plating/Part Nos.		
			Plating A	Plating B	Plating C	Plating A	Plating B	Plating C
3	.284 7.21	.200 5.08	104347-1	104348-1	104349-1	104429-1	104430-1	104431-1
4	.384 9.75	.300 7.62	104347-2	104348-2	104349-2	104429-2	104430-2	104431-2
5	.484 12.29	.400 10.16	104347-3	104348-3	104349-3	104429-3	104430-3	104431-3
6	.584 14.83	.500 12.70	104347-4	104348-4	104349-4	104429-4	104430-4	104431-4
7	.684 17.37	.600 15.24	104347-5	104348-5	104349-5	104429-5	104430-5	104431-5
8	.784 19.91	.700 17.78	104347-6	104348-6	104349-6	104429-6	104430-6	104431-6
9	.884 22.45	.800 20.32	104347-7	104348-7	104349-7	104429-7	104430-7	104431-7
10	.984 24.99	.900 22.86	104347-8	104348-8	104349-8	104429-8	104430-8	104431-8
11	1.084 27.53	1.000 25.40	104347-9	104348-9	104349-9	104429-9	104430-9	104431-9
12	1.184 30.07	1.100 27.94	1-104347-0	1-104348-0	1-104349-0	1-104429-0	1-104430-0	1-104431-0

Notes: 1. Refer to the product drawing to determine the number and location of the board retention tails.
2. Other tail lengths are available, consult AMP Incorporated.

Retention Headers—Unshrouded, Single-Row, .100 [2.54] Centers (Continued)

No. of Pos.	Dimensions		C = .120 [3.05] D = .230 [5.84] E = .185 [4.70]			C = .110 [2.79] D = .318 [8.08] E = .200 [5.08]		
	A	B	Post Plating/Part Nos.			Post Plating/Part Nos.		
			Plating A	Plating B	Plating C	Plating A	Plating B	Plating C
13	1.284 32.61	1.200 30.48	1-104347-1	1-104348-1	1-104349-1	1-104429-1	1-104430-1	1-104431-1
14	1.384 35.15	1.300 33.02	1-104347-2	1-104348-2	1-104349-2	1-104429-2	1-104430-2	1-104431-2
15	1.484 37.69	1.400 35.56	1-104347-3	1-104348-3	1-104349-3	1-104429-3	1-104430-3	1-104431-3
16	1.584 40.23	1.500 38.10	1-104347-4	1-104348-4	1-104349-4	1-104429-4	1-104430-4	1-104431-4
17	1.684 42.77	1.600 40.64	1-104347-5	1-104348-5	1-104349-5	1-104429-5	1-104430-5	1-104431-5
18	1.784 45.31	1.700 43.18	1-104347-6	1-104348-6	1-104349-6	1-104429-6	1-104430-6	1-104431-6
19	1.884 47.85	1.800 45.72	1-104347-7	1-104348-7	1-104349-7	1-104429-7	1-104430-7	1-104431-7
20	1.984 50.39	1.900 48.26	1-104347-8	1-104348-8	1-104349-8	1-104429-8	1-104430-8	1-104431-8
21	2.084 52.93	2.000 50.80	1-104347-9	1-104348-9	1-104349-9	1-104429-9	1-104430-9	1-104431-9
22	2.184 55.47	2.100 53.34	2-104347-0	2-104348-0	2-104349-0	2-104429-0	2-104430-0	2-104431-0
23	2.284 58.01	2.200 55.88	2-104347-1	2-104348-1	2-104349-1	2-104429-1	2-104430-1	2-104431-1
24	2.384 60.55	2.300 58.42	2-104347-2	2-104348-2	2-104349-2	2-104429-2	2-104430-2	2-104431-2
25	2.484 63.09	2.400 60.96	2-104347-3	2-104348-3	2-104349-3	2-104429-3	2-104430-3	2-104431-3
26	2.584 65.63	2.500 63.50	2-104347-4	2-104348-4	2-104349-4	2-104429-4	2-104430-4	2-104431-4
30	2.984 75.79	2.900 73.66	2-104347-5	2-104348-5	2-104349-5	2-104429-5	2-104430-5	2-104431-5
35	3.484 88.49	3.400 86.36	2-104347-6	2-104348-6	2-104349-6	2-104429-6	2-104430-6	2-104431-6
40	3.984 101.19	3.900 99.06	2-104347-7	2-104348-7	2-104349-7	2-104429-7	2-104430-7	2-104431-7

- Notes:** 1. Refer to the product drawing to determine the number and location of the board retention tails.
2. Other tail lengths are available, consult AMP Incorporated.

Retention Headers—
Unshrouded

D 95E ■ 0797312 0029030 130 ■