Headers .100 [2.54] Centerline

Dimensioning: Dimensions are in inches and millimeters. Values in brackets are metric equivalents. Chart contains dimensions in inches over

.025 [0.64] Square Straight Posts

Material and Finish:

Housing—Thermoplastic polyester, 94V-0 rated

Posts—Copper alloy, pre-tin plated

Related Product Data:

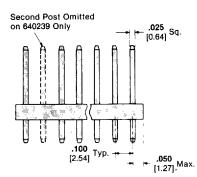
Mating Recpetacles-

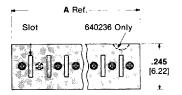
Non-polarized headers mate with .100 [2.54] centerline receptacles on page 3 and non-polarized receptacles without polarizing pin on page 4.

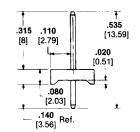
Polarized headers mate with receptacles with polarizing pin on page 4.

Polarized headers with post omitted mate with polarized receptacles without polarizing pin in page 4.

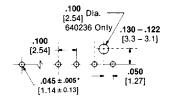
Technical Documents—page 1







millimeters.



Recommended Mounting Hole Pattern for .062 [1.59] Thk. Pc Board

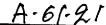
*Tolerance applies to solder side of board.

A Dim.	Non-Polarized		Polarized			
	No. of Posts	Part Number	Standard No. of Posts	Part Number	With Post Omitted	
					Posts	Part Number
.200 5.08	2	640098-2	2	640236-2	_	
.300 7.62	3	640098-3	_	_	_	
.400 10.16	4	640098-4		-		
.500 12.7	5	640098-5	5	640236-5		_
.600 15.24	6	640098-6	6	640236-6		_
.700 17.78	7	640098-7	7	640236-7		_
.800 20.32	8	640098-8	8	640236-8	_	_
.900 22.86	9	640098-9	_	_	_	
1.000 25.4	10	1-640098-0	_	_	9	640239-9
1.100 27.94	11	1-640098-1				_
1.200 30.48	12	1-640098-2		_		_
1.300 33.02	13	1-640098-3	_			
1.400 35.56	14	1-640098-4	_	_		_
1.500 38.1	_	_	_	_	14	1-640239-4
1.600 40.64	16	1-640098-6	_	_	15	1-640239-5
2.000 50.8	20	2-640098-0		-	_	_

For drawings, technical data or samples, contact your AMP sales engineer or call the AMP Product Information Center 1-800-522-6752. (Modular Board-to-Board

and Wire-to-Board System)

Commercial Interconnection System

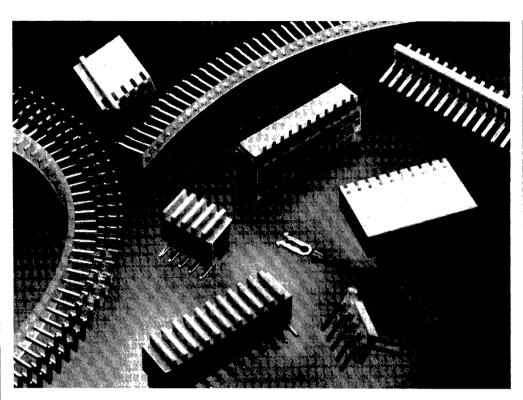


Catalog **73-108**

Streamlined 6-89

82001





Significant cost savings can be accrued by the use of this low-cost, two-piece, tinplated interconnection system. The board-to-board system features preloaded connector housings with specially designed cavities to support and protect the forked-type female redundant metal-to-metal high pressure contact, assuring positive electrical integrity for signal level applications. The mating half consists of a post designed to provide significant contact travel and insure positive wiping action. A variety of tooled configurations for board-toboard and wire-to-board applications offers packagina flexibility.

For board-to-board applications, preassembled receptacles are available on .100 [2.54] or .150 [3.81] centerline contact spacings and are made of UL recognized 94V-0 flame retardant material. Contacts are brass with bright tin over nickel plating

to provide excellent solderability. These assemblies are supplied in top, side and bottom post entry versions allowing a high level of design options.

For wire-to-board use, crimp snap-in contact receptacle housings coupled with the headers and free-standing posts provide horizontal or vertical entry to the pc board, anywhere on the board. By design, these housings control discrete wiring to the board and insure reliability and continuity by their two-piece, redundant, metal-to-metal, positive wipe action crimp snap-in contacts. These contacts are available in both insulation support and non-insulation support configurations. AMP quick-change applicators used in conjunction with semiautomatic AMP-O-LECTRIC machines or fully automatic AMPOMATOR machines insure low applied cost harnessing.

Pc board-mating, free-standing posts are supplied in straight and right-angle versions. They come mounted on plastic carrier strips for high-speed gang insertion on .100 [2.54] and .150 [3.81] centers. Machine application is particularly valuable where staggered or random post locations are required. Post headers are also available, with or without polarization features.



Redundant Metal-to-Metal Contact

Note: Does not rely on housing material for contact force

Product Facts

- High reliability
- Two-piece interconnection system
- High pressure fork-type female contacts: 2.25 lb. [10 N] Part No. 350090-1; 0.6 lb. [2.5 N] Part No. 640230-1; 0.67 lb. [3 N] receptacle assemblies
- Low-cost, tin-plated system
- Extreme versatility allowing for electronic packaging flexibility
- Contact spacings .100 [2.54] and .150 [3.81] centerline, single row
- Posts available for gang insertion via zip strip or as post headers
- Application cost savings through product design and application tooling
- Recognized under the Component Program of Underwriters Laboratories Inc., File No. E-28476

Technical Documents

Product Specifications: 108-1045—Wire-to-Board 108-1086—Board-to-Board

Application Specifications: 114-1017—Crimp Snap-In Contacts

114-1029—F Posts

Instruction Sheets: IS 7687—F Posts IS 7697—Straight Posts IS 7793—Crimp Hand Tool

Dimensioning:

Dimension are in inches and millimeters.
Values in brackets are metric equivalents.
Metric symbols used:
mm (millimeter)

mm² (square millimeter) N (newton)

Specifications subject to change. Consult AMP Incorporated for latest design specifications.

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Commercial Interconnection System

Dimensioning:

Dimensions are in inches and millimeters.
Values in brackets are metric equivalents.

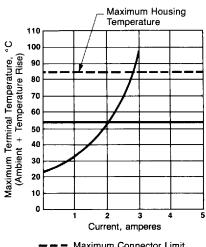
Performance Characteristics

Current Ratings:

Board-to-Board Receptacles—2.0 amperes maximum Wire-to-Board Receptacles—4.0 amperes maximum

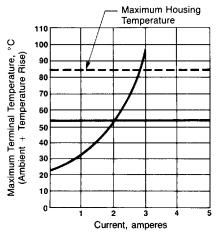
Board-to-Board Receptacles

Contact Temperature vs Current/Circuit .100 Centerline 12 Circuit System



- Maximum Connector Limit, 85°C (185°F)
- Component Recognition, 30°C (54°F) T-rise 2 amperes maximum

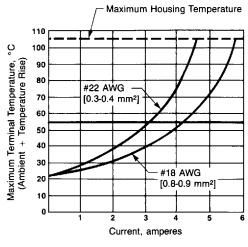
Contact Temperature vs Current/Circuit .150 Centerline 9 Circuit System



- Maximum Connector Limit, 85°C (185°F)
- Component Recognition, 30°C (54°F) T-rise 2 amperes maximum

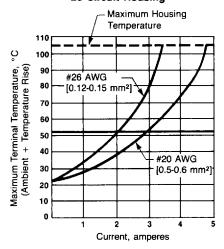
Wire-to-Board Receptacles

Terminal Temperature vs Current/Circuit, .020 [0.51] Thick Stock Contact 20 Circuit Housing



- – Maximum Connector Limit, 105°C (221°F)
- Component Recognition, 30°C (54°F) T-rise maximum at rated current of 3.0 amperes for #22 AWG [0.3-0.4 mm²] and 4.0 amperes for #18 AWG [0.8-0.9 mm²].

Terminal Temperature vs Current/Circuit, .014 [0.36] Thick Stock Contact, 20 Circuit Housing



- — Maximum Connector Limit, 105°C (221°F)
- Component Recognition, 30°C (54°F) T-rise maximum at rated current of 2.0 amperes for #26 AWG [0.12-0.15 mm²] and 3.0 amperes for #20 AWG [0.5-0.6 mm²]