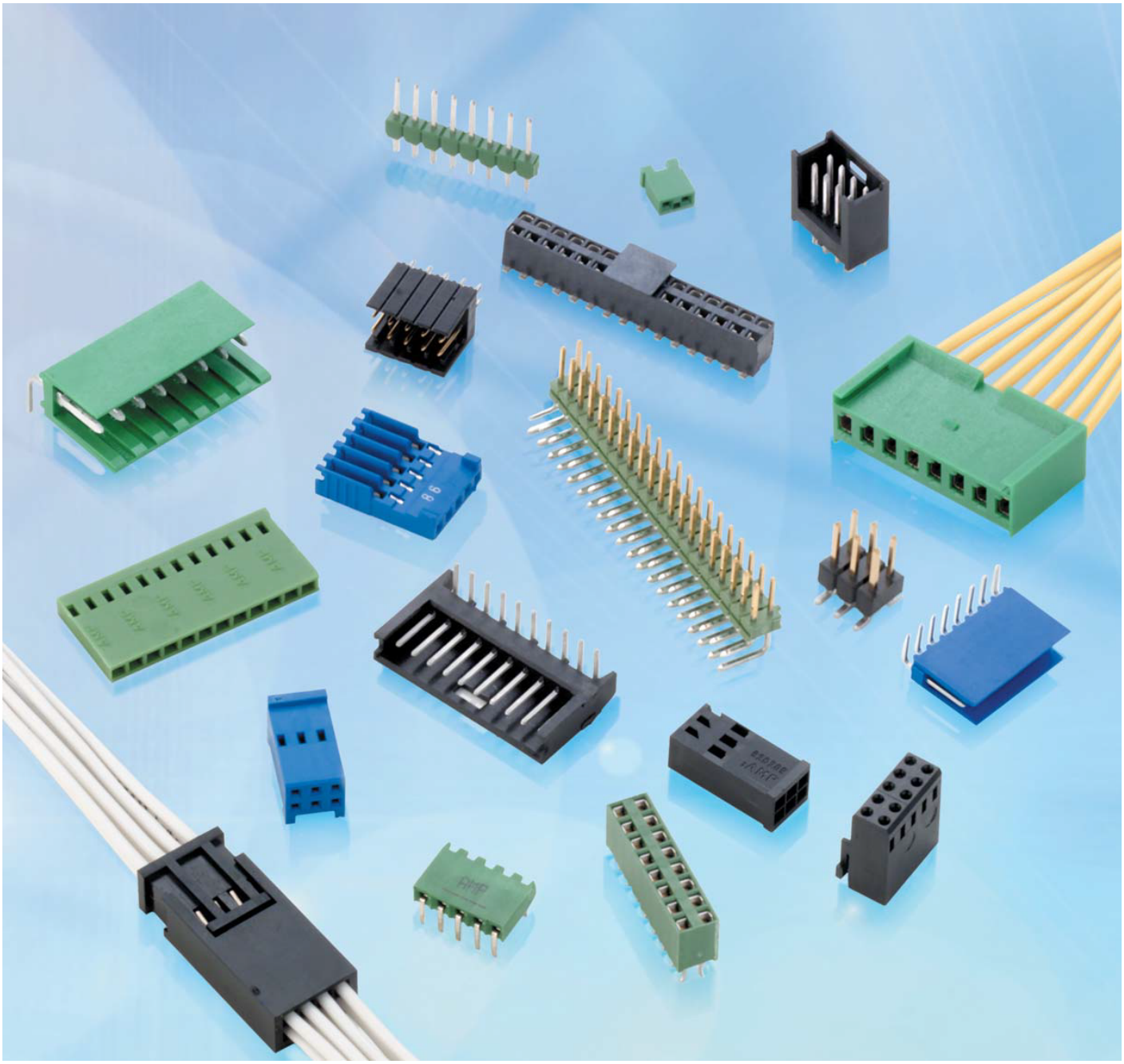
AMPMODU INTERCONNECTION SYSTEM

3.96mm CENTRELINE INTERCONNECTION SYSTEM



AMPMODU INTERCONNECT SYSTEM
.156 [3.96] CENTERLINE



- Connector Systems / Electromechanical Components
- Relays
- Wireless
- Antennas, GPS Antennas, Integrated Antenna Systems
- Sensors
- Fiber Optic (Passive)
- Heat Shrink Tubing
- Wire & Cable
- Circuit Protection Devices
- Touchscreens / Interactive Displays
- Application Tooling
- Battery Assemblies
- Power Systems / Electronic Modules
- Magnetics
- Resistors and Inductors
- Heat Sinks/Thermal Management
- Switches
- Identification&Labeling Products
- Racks and Panels
- Smart Cards / Leadframes
- Clock Springs
- Small Motors (20–1,500 W)

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MOD I PCB Receptacle Contacts ..... page 7
MOD I Shrouded Headers ..... page 8
MOD I Unshrouded Headers ..... page 10
MOD I Shunt Connectors ..... page 11

AMPMODU .156 [3.96] CENTERLINE
MOD I 0.031 X 0.062 INTERCONNECTION SYSTEM

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Receptacle Assemblies, Vertical and Horizontal Board Mount ..... page 16
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Headers
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Locking Clip Connector Housings, Single Row, Crimp Snap-In ..... page 27
Application Tooling ..... page 28
Performance Specifications ..... page 33
Technical Documents ..... page 34

RESTRICTION ON THE USE OF HAZARDOUS SUBSTANCES (ROHS)

At TE Connectivity, we're ready to support your RoHS requirements. We've assessed more than 1.5 million end items/components for RoHS compliance, and issued new part numbers where any change was required to eliminate the restricted materials. Part numbers in this catalogue are identified as:

ROHS COMPLIANT

Part numbers in this catalog are RoHS Compliant, unless marked otherwise.

These products comply with European Union Directive 2002/95/EC as amended 1 January 2006 that restricts the use of lead, mercury, cadmium, hexavalent chromium, PBB, and PBDE in certain electrical and electronic products sold into the EU as of 1 July 2006.

Note: For purposes of this Catalog, included within the definition of RoHS Compliant are products that are clearly "Out of Scope" of the RoHS

Directive such as hand tools and other non-electrical accessories.

NON-ROHS COMPLIANT

These part numbers are identified with a "♦" symbol. These products do not comply with the material restrictions of the European Union Directive 2002/95/EC.

5 OF 6 COMPLIANT

A "●" symbol identifies these part numbers. These products do not fully comply with the European Union Directive 2002/95/EC because they contain lead in solderable interfaces (they do not contain any of the other five restricted substances above allowable limits). However, these products may be suitable for use in RoHS applications where there is an application-based exception for lead in solders, such as the server, storage, or networking infrastructure exemption.

Note: Information regarding RoHS compliance is provided based on reasonable inquiry of our suppliers and represents our current actual knowledge based on the information provided by our suppliers. This information is subject to change. For latest compliance status, refer to our website referenced below.

GETTING THE INFORMATION YOU NEED

Our comprehensive on-line RoHS Customer Support Center provides a forum to answer your questions and support your RoHS needs. A RoHS FAQ (Frequently Asked Questions) is available with links to more detailed information. You can also submit RoHS questions and receive a response within 24 hours during a normal work week. The Support Center also provides:

- Cross-Reference from Non-compliant to Compliant Products
- Ability to browse RoHS Compliant Products in our on-line catalog:
  http://ecommas.tycoelectronics.com/commerce/alt/RohsAltHome.do
- Downloadable Technical Data Customer Information Presentation
- More detailed information regarding the definitions used above

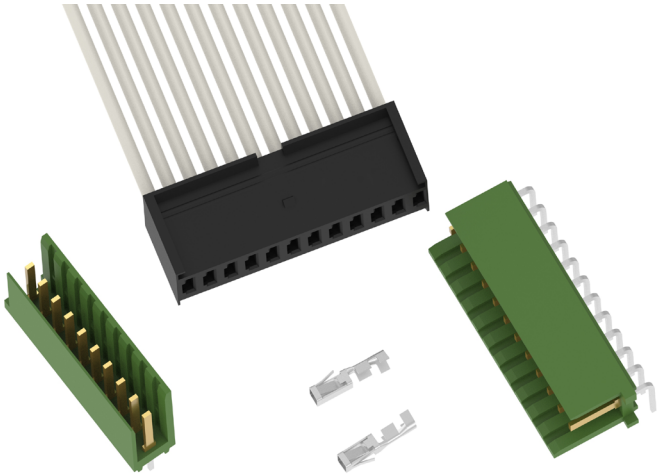
RoHS Customer Support Center

So whatever your questions when it comes to RoHS, we've got the answers at **www.tycoelectronics.com/leadfree**

AMPMODU INTERCONNECT SYSTEM
.156 [3.96] CENTERLINE

PRODUCT FACTS

- Rugged connector system featuring 0.79 x 1.57mm posts with mating receptacles
- Current rating 5 amps max per contact
- Available for board-to-board and wire-to-board connection
- Contacts available in both tin and gold plating
- Flame retardant thermoplastic housings UL 94V-1 rated
- Shrouded pin headers feature polarisation and detent latching



SPECIFICATION:

Current Rating	- 5 A max
Operating Temperature	- -40°C to +105°C
Engaging Force	- 2.5 N per contact max (standard pressure contacts)
Separating Force	- 0.5 N per contact min (standard pressure contacts)
Durability	- 0.4 µm gold — 100 cycles 0.8 µm tin — 10 cycles (standard pressure contacts)
Contact Resistance	- 15 mΩ max
Insulation Resistance	- 5000 MΩ min

The 0.79 x 1.57mm interconnection system has been an industry standard for over 30 years. It is a rugged large scale system for board-to-board and wire-to-board connection in applications such as power supplies, industrial control and switchgear.

MOD I RECEPTACLES

Cable mount receptacle housings accept crimp contacts with a wire size range from 17-22AWG (0.32-1.00mm^2) and with a variety of plating options. Contacts are available in both reeled and loose piece format to suit different manufacturing requirements and volumes. Unhoused pcb receptacle contacts provide a simple board-to-board solution with MOD I unshrouded headers.

MOD I HEADERS

Pcb mount headers are provided in both shrouded and unshrouded versions. Shrouded headers are available in both straight and right angle variants with built-in polarisation when used with MOD I cable mount receptacles. Unshrouded pcb headers are offered for straight pcb mounting. Tin or gold plated contacts are available for both styles.

MOD I SHUNT CONNECTORS

The shunt connector is the easiest form of programming, allowing simple and flexible electrical connection. Supplied in strips they can be broken off as required. The open top design allows the use of a test probe while located in-circuit

MOD I RECEPTACLE HOUSINGS

SINGLE ROW

SPECIFICATION:

Housing- Green glass fibre filled polycarbonate, UL 94V-1 rated

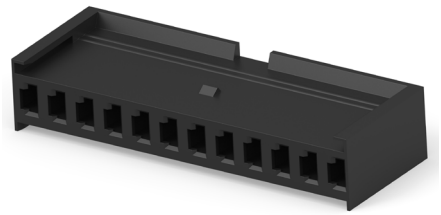
MATING CONNECTORS:

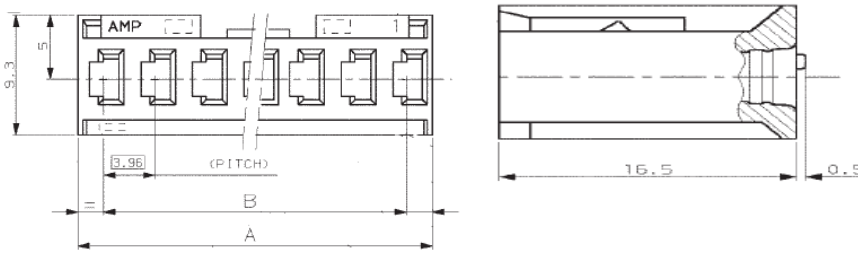
MODI Shrouded Headers - page 8

TECHNICAL DOCUMENTS:

Product Specification - 108-20026

Application Specification - 114-20040





PRODUCT INFORMATION

No. of Positions	Contact		Part Number
	A	B	
2	7.8	3.96	280590
4	15.7	11.89	280591
6	23.7	19.81	280592
8	31.6	27.74	280593
10	39.5	35.66	280594
12	47.4	43.59	280595
Keying Plug			87116-2

MOD I CRIMP SNAP-IN RECEPTACLE CONTACTS

WITH INSULATION SUPPORT

SPECIFICATION:

Material- Phosphor bronze, plated as follows:

Plating A- Selectively plated 0.8 µm gold on contact area, with gold flash over 1.27 µm nickel on entire contact

Plating B- Selectively plated 0.4 µm gold on contact area with gold flash over 1.27 µm nickel on entire contact

Plating C- Pre-tin plated 0.8 µm



TECHNICAL DOCUMENTS:

Product Specification - 108-20026

Application Specification - 114-20040

RELATED PRODUCTS:

Extraction Tool - 843473-1

PRODUCT INFORMATION

Wire Size Range mm²	AWG	Insulation Diameter mm	Plating	Part Number	
				Strip Form	Loose Piece
0.32-0.80	22-18	1.80-2.30	Plating B	280621-2	181299-2
			Plating C	280621-1	181299-1
			Plating C	280702-1*	182198-1*
0.5 -1.0	20-17	2.20-2.80	Plating C	281423-1*	–

* With high contact pressure

MOD I PCB MOUNT RECEPTACLE CONTACTS

SPECIFICATION:

Material- Phosphor bronze

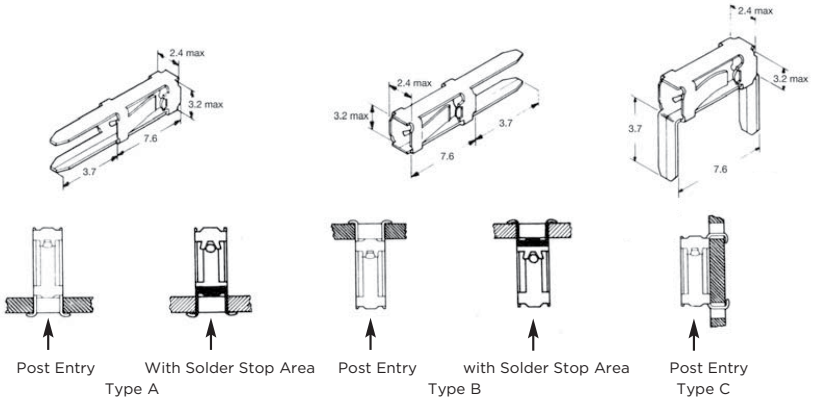
Plating- See table

MATING CONNECTORS:

MODI Unshrouded Headers - page 10

TECHNICAL DOCUMENTS:

Application Specification - 114-25004



PRODUCT INFORMATION

Part Number		Plating (Contact Zone)
Type A		
On Reel	Loose Piece	
141002-1	-	Tin plated with solder stop area
141002-4	-	0.8 µm Au over 1.3 µm Ni
Keying Plug		86181-2

MOD I SHROUDED HEADERS

STRAIGHT

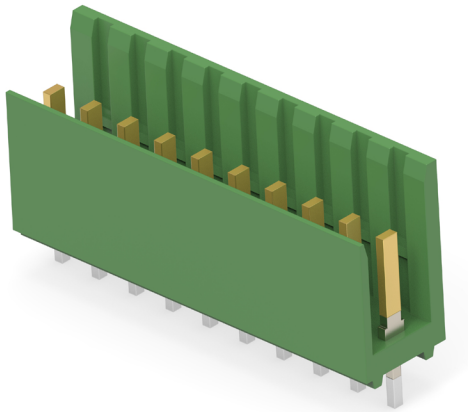
SPECIFICATION:

Housing- Green glass fibre filled polycarbonate, UL 94V-1 rated

Posts- Brass (gold plating) or phosphor bronze (tin plating). Plating details as follows:

Plating A- Gold 0.4 µm on contact area, tin on solder area, with entire post underplated 1.3 µm nickel

Plating B- Tin 3.8 µm min

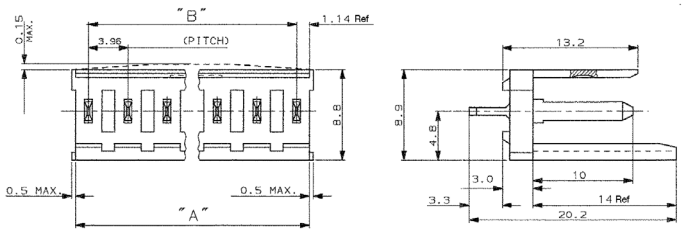


MATING CONNECTORS:

MOD I Receptacle Housings - page 6

TECHNICAL DOCUMENTS:

Product Specification- 108-20026



PRODUCT INFORMATION

No. of Positions	Dimension		Part Number	
	A	B	Plating A	Plating B
2	6.2	3.96	280609-2	280609-1
4	14.2	11.89	280610-2	280610-1
6	22.1	19.81	280611-2	280611-1
8	30.0	27.74	280612-2	280612-1
10	37.9	35.66	280613-2	280613-1
12	45.9	43.59	280614-2	280614-1

MOD I SHROUDED HEADERS

RIGHT ANGLE

SPECIFICATION:

Housing- Green glass fibre filled polycarbonate, UL 94V-1 rated

Posts- Brass (gold plating) or phosphor bronze (tin plating). Plating details as follows:

Plating A- Gold 0.4 µm on contact area, tin on solder area, with entire post underplated 1.3 µm nickel

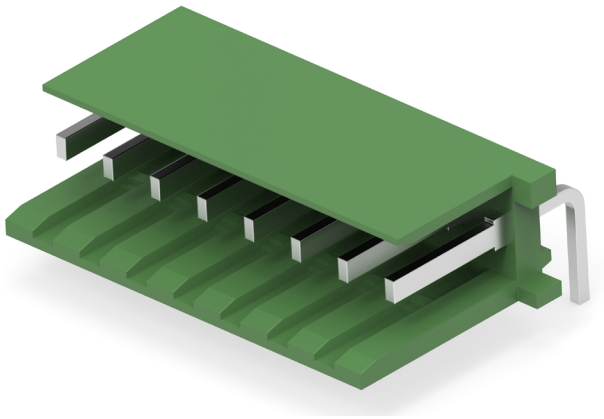
Plating B- Tin 3.8 µm min

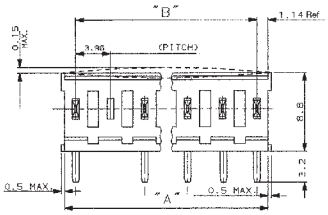
MATING CONNECTORS:

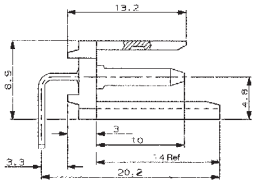
MOD I Receptacle Housings - page 6

TECHNICAL DOCUMENTS:

Product Specification- 108-20026







PRODUCT INFORMATION

No. of Positions	Dimension		Part Number	
	A	B	Plating A	Plating B
2	6.2	3.96	280615-2	280615-1
4	14.2	11.89	280616-2	280616-1
6	22.1	19.81	280617-2	280617-1
8	30.0	27.74	280618-2	280618-1
12	45.9	43.59	280620-2	280620-1

MOD I UNSHROUDED HEADERS

STRAIGHT

SPECIFICATION:

Housing- Thermoplastic polyester, green UL94V-0 rated

Posts- Brass

Plating A- 0.8 µm gold on contact area (F), tin on solder area, with entire post underplated 1.3 µm nickel

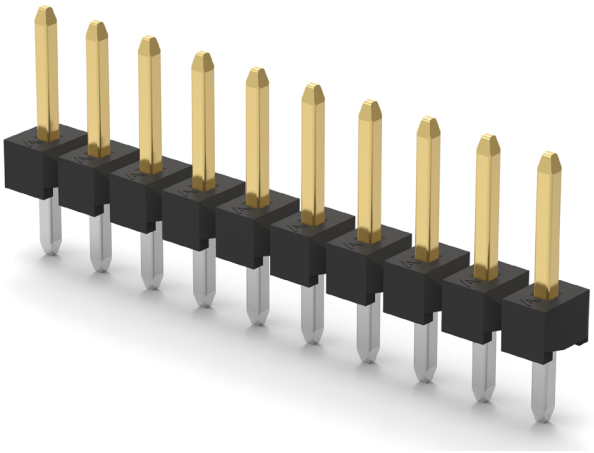
Plating B- Tin plated 2.5 µm min tin over 1.3 µm nickel

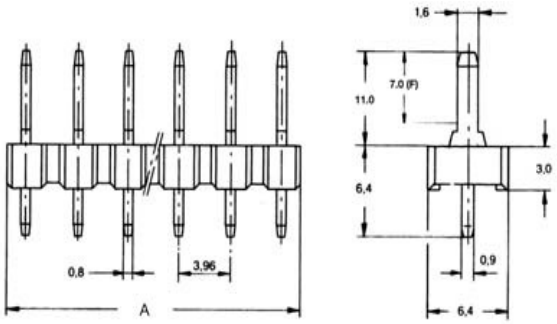
MATING CONNECTORS:

MOD I PCB Receptacle Contacts - page 7

TECHNICAL DOCUMENTS:

Product Specification- 108-20026





PRODUCT INFORMATION

No. of Positions	Dimension	Part Number
	A	Plating B
2	7.3	826576-2
3	11.3	826576-3
5	19.2	826576-5
6	23.1	826576-6
20	78.6	2-826576-0
36	141.6	3-826576-6

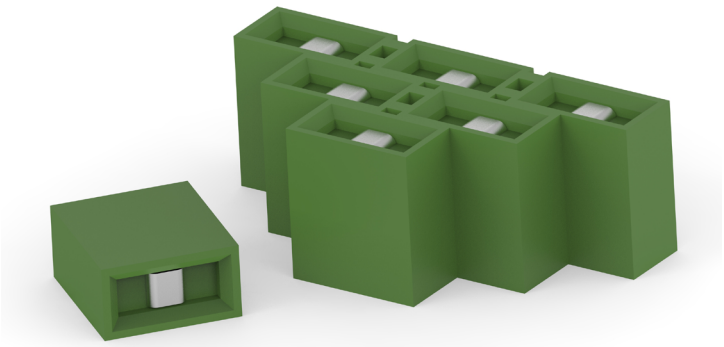
MOD I SHUNT CONNECTORS

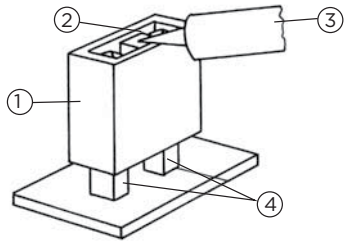
SPECIFICATION:

Housing- Polyamide 6.6, green UL94-HB rated

Contact- Phosphor bronze

Plating - Tin 2 µm min



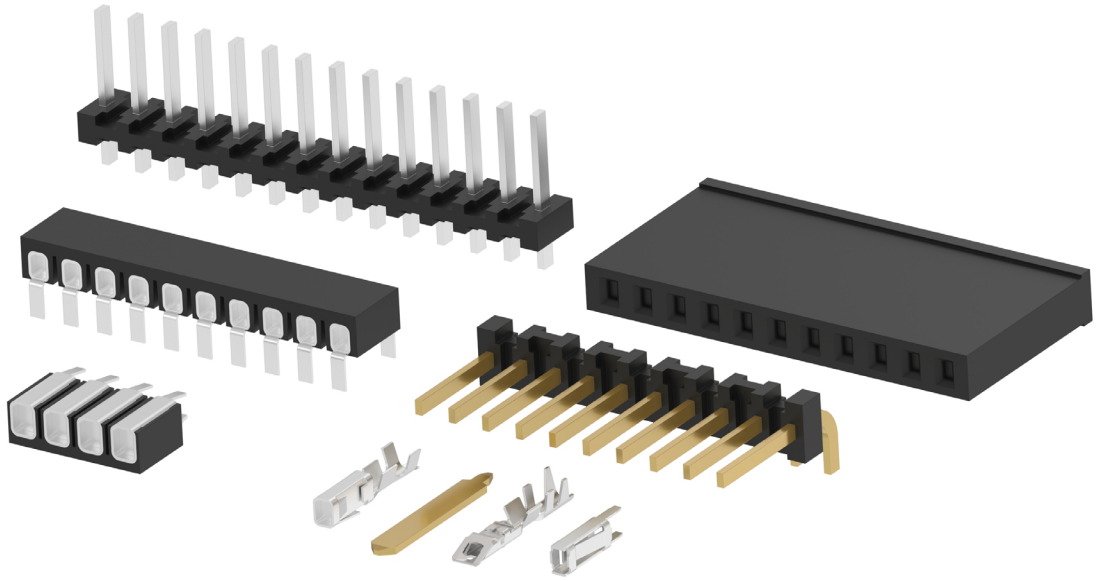


1 Housing
2 Contact
3 Testing Probe
4 Posts

PRODUCT INFORMATION

No. of Positions	Part Number
1	826853-1

AMPMODU .031 X .062 [0.79 X 1.57] INTERCONNECTION SYSTEM



INTRODUCTION

The .031 x .062 [0.79 x 1.57] interconnection system has served as an industry standard for modular packaging for over three decades. It is a rugged large scale system designed for board-to-board and board-to-wire or cable applications that has offered millions of reliable interconnections and countless mating cycles. This versatile interconnection system successfully meets the requirements for most modular power supply packaging.

Board mounted receptacles and receptacle assemblies are available in various geometries, offering packaging interconnections that include perpendicular, parallel and stacking capabilities. Machine applied terminations, through matched application equipment, are geared to virtually any production requirement, assuring the lowest possible applied cost.

Crimp snap-in receptacles for 26-18 AWG [0.12 – 0.9mm2] wire provide excellent discrete wire terminations. Housings for these contacts provide for ease of handling terminations in high density applications.

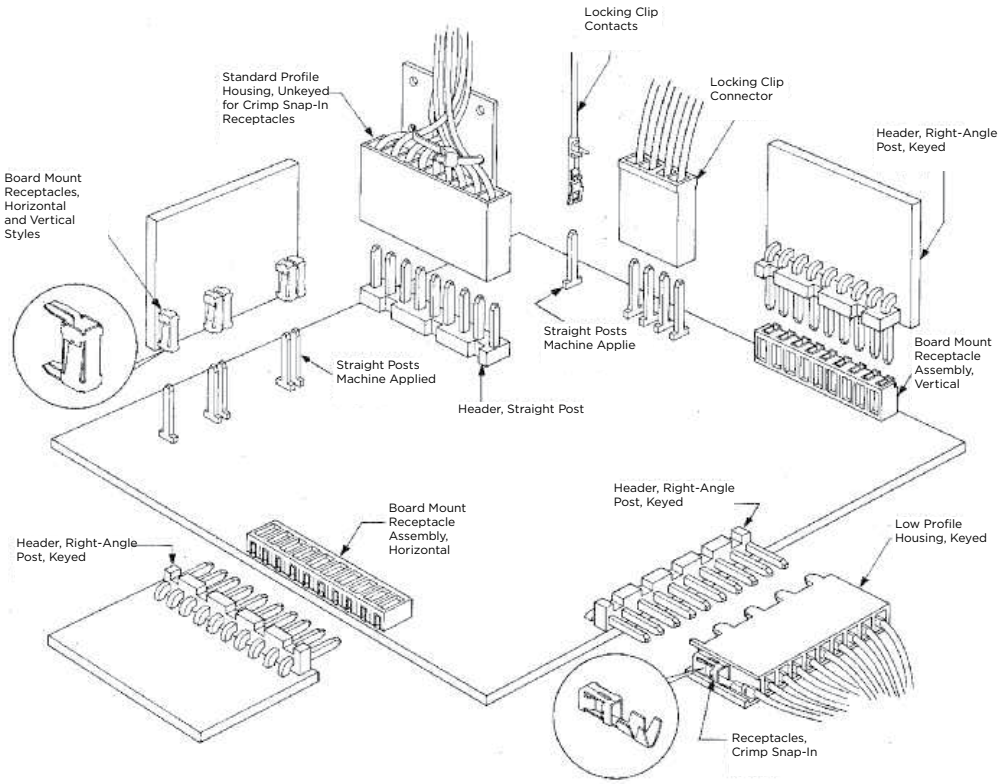
AMPMODU mating posts are supplied typically as header assemblies. They are available in various sizes to meet the interconnection and packaging requirements of your system. However, in instances where packaging configurations do not lend themselves to the economies of assemblies, TE can provide for the discrete location of individual posts and receptacles.

If your interconnections require Top Entry, Bottom Entry and/or Side Entry for perpendicular, parallel and stacked configurations, the .031 x .062 [0.79 x 1.57] interconnection system can fulfill your needs with the lowest applied cost through efficient interconnections and supporting application equipment.

PRODUCT FACTS

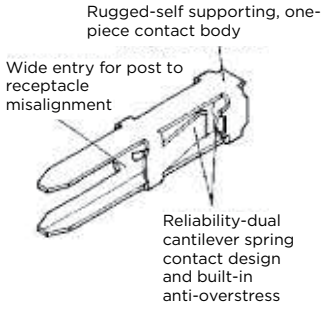
- Rugged connector system featuring .031 x .062 [0.79 x 1.57] posts with mating receptacles
- Current rating 5 amps max per contact. Varies due to ambient temperature, wire size and duty cycles.
- Available for board-to-board and wire-to-board applications
- Posts available on strip for machine application directly to pc board or in housings for board mounting
- Receptacles available for board mounting or wire crimping
- Contacts available in both tin and gold plating
- Flame retardant thermoplastic housings 94V-0 rated
- Locking Clip contacts available to mate with .031 x .062 [0.79 x 1.57] posts
- Recognized under the Component Program of Underwriters Laboratories Inc., File No. E28476
- Certified by Canadian Standards Association, File No. LR 16455

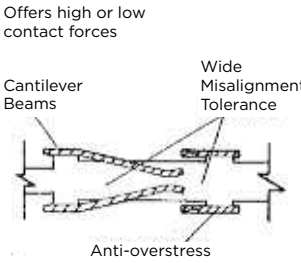
AMPMODU .031 X .062 [0.79 X 1.57] INTERCONNECTION SYSTEM

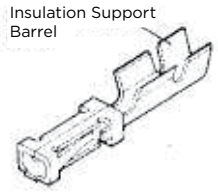


The AMPMODU receptacle cross-section is primarily rectangular, with rounded corners. Two integral cantilever beams contact the mating square or rectangular posts. Deflection of these spring members is limited by antioverstress and excessive permanent deformation is prevented. This feature allows a wide range of tolerances for misalignment of mating contacts. The configuration of the receptacle completely encloses the spring members preventing damage during handling and assembly and makes the system compatible with automatic application techniques. This design also permits the use of the receptacles without housings or encapsulation

Note: Application of a contact lubricant is part of the manufacturing process of all AMPMODU tin-plated crimp products. However, it is not part of the manufacturing process of products that customers will solder, then clean. For these products, TE recommends that customers purchase a contact lubricant. (See application specification 114-25004 for further information.)





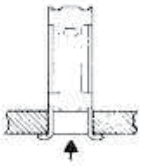


Wire Crimp Receptacle

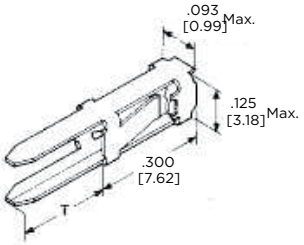
MOD I RECEPTACLES, BOARD MOUNT, .031 X .062 [0.79 X 1.57] CENTERLINE

VERTICAL AND HORIZONTAL BOARD MOUNT

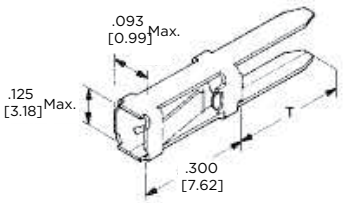
RECEPTACLE STYLES



Bottom
Post Entry
Type A

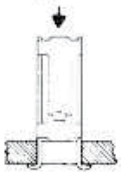


Type A



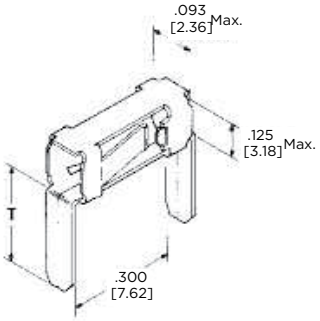
Type B

Top
Post Entry
Type B

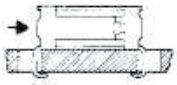




Typical solder resist tab
(Type A or B)



Type C



Horizontal
Post Entry
Type C

RECOMMENDED BOARD LAYOUT FOR RECEPTACLE ASSEMBLIES AND INDIVIDUAL RECEPTACLES (TYPE A AND B)

RELATED PRODUCT DATA

Recommended Board Layout for Type C— page 18

Mates with—

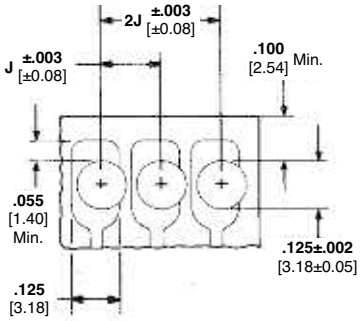
Machine Applied Posts— page 21

Headers— page 23

Application Tooling— page 28

Performance Specifications— page 33

Technical Documents — page 34



Round Hole
(Post Entry Type A or B)

KEYING PLUG



Part No. 86181-2
Use in Board Mount Receptacles

J-Receptacle centers may vary depending on requirements. For individual receptacles, minimum nominal centerline spacing between adjacent receptacles is .150 [3.81]; for receptacle assemblies, centerline spacing between adjacent receptacles is .156 [3.96]. The .003 [0.08] tolerances are not to accumulate over length of board. For solder mask, see TE Instruction Sheet 408-7411.

Note: Drawings depict normal use of the contact in a one or two-sided circuit board. When using plated thru-holes, refer to TE Engineering Report ER-001 and TE Instruction Sheet 408-7411. For solder mask, see TE Instruction Sheet 408-7411.

Note: All part numbers are RoHS compliant.

MOD I RECEPTACLES, BOARD MOUNT, .031 X .062 [0.79 X 1.57] CENTERLINE

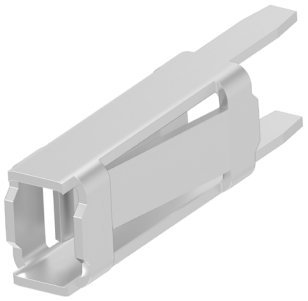
MATERIAL AND FINISH:

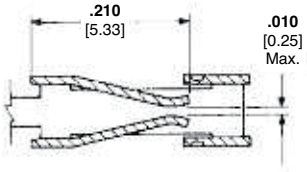
Copper alloy, plated as follows:

Plating A- Selectively plated .000030 [0.00076] gold on contact area, with gold flash over .000050 [0.00127] nickel on entire contact

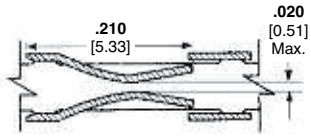
Plating B- .000079 [0.00201] min. tin on entire contact

Plating C- (Solder Resist) — .000030 [0.00076] gold over .000050 [0.00127] nickel on contact area, .000500 [0.01270] aluminum on inside area of solder tines; remainder of contact unfinished





Standard Pressure Receptacle



High Pressure Receptacle

PRODUCT INFORMATION

Type	Board Thickness Range	Dimension T (Ref. Pg. 285)	Finish	Standard Pressure Part Nos.		High Pressure Part Nos.	
				Strip Form	Loose Piece	Strip Form	Loose Piece
A	.070-.055 [1.78-1.40]	.112 [2.84]	Plating A	-	86480-2	-	-
			Plating B	86477-3	-	87316-3	-
B	.070-.055 [1.78-1.40]	.112 [2.84]	Plating A	87003-1	-	-	-
			Plating B	87003-2	-	-	-
C	.103-.055 [2.62-1.40]	.145 [3.68]	Plating A	87003-4	85493-4	86432-8	-
			Plating B	-	-	86432-1	86434-1

Notes: 1. All strip form parts in packaged quantities of 5,000 each.
2. All loose piece parts in packaged quantities of 500 each.

Note: All part numbers are RoHS compliant

MOD I RECEPTACLE ASSEMBLIES, VERTICAL BOARD MOUNT, .031 X .062 [0.79 X 1.57] CENTERLINE

SINGLE ROW .156 [3.96] CENTERLINE

MATERIAL AND FINISH

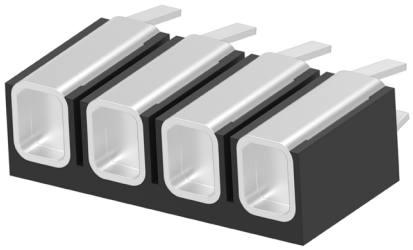
Housing— Black thermoplastic, 94V-0 rated

Contacts— Copper alloy, plated as follows:

Plating A— Selectively plated .000030 [0.00076] gold on contact area, with gold flash over .000050 [0.00127] nickel on entire contact

Plating B— .000079 [0.00201] min. tin on entire contact

Plating C— (Solder Resist) — .000030 [0.00076] gold over .000050 [0.00127] nickel on contact area, .000500 [0.01270] aluminum on inside area of solder tines; remainder of contact unfinished



RELATED PRODUCT DATA

Recommended Board Layout— page 18

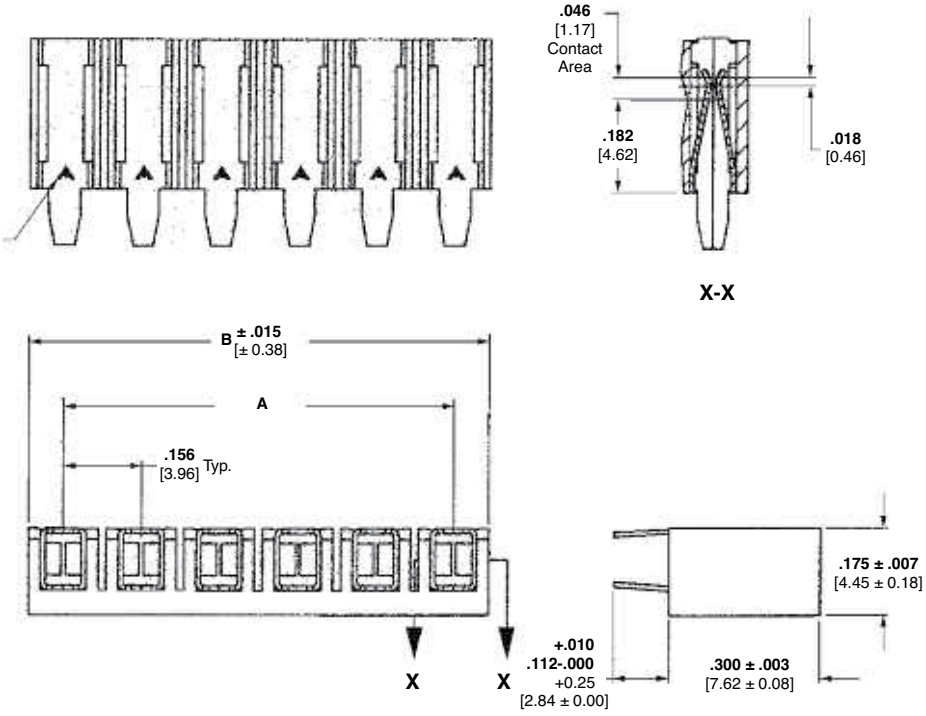
Mates with —

Machine Applied Posts — page 21

Headers— page 23

Performance Specifications— page 33

Technical Documents — page 34



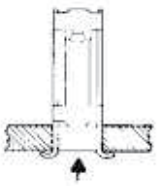
PRODUCT INFORMATION

No. of Positions	Dimension		Type A			Type B	
			Standard Pressure		High Pressure	Standard Pressure	
	A	B	Plating A	Plating B	Plating B	Plating A	Plating B
3	.312 [7.92]	.468 [11.89]	87984-3	-	-	-	-
4	.468 [11.89]	.624 [15.85]	-	87983-4	-	87986-4	87985-4
5	.624 [15.85]	.780 [19.81]	87984-5	-	-	87986-5	-
6	.780 [19.81]	.936 [23.77]	87984-6	-	-	87986-6	-
7	.936 [23.77]	1.092 [27.74]	-	-	-	87986-7	-
8	1.092 [27.74]	1.248 [31.70]	87984-8	-	-	-	-
16	2.340 [59.44]	2.496 [63.40]	-	-	1-87993-6	-	-

KEYING PLUG



Part No. 86181-2
(Use in Board Mount Receptacles)



Post Entry
Type A



Post Entry
Type B

Note: All part numbers are RoHS compliant

MOD I RECEPTACLE ASSEMBLIES, HORIZONTAL BOARD MOUNT, .031 X .062 [0.79 X 1.57] CENTERLINE

SINGLE ROW .156 [3.96] CENTERS

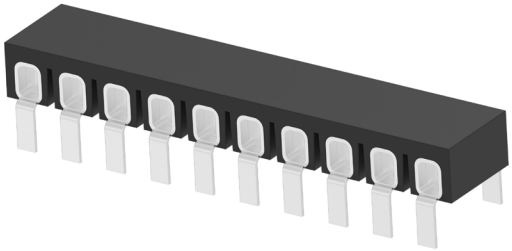
MATERIAL AND FINISH

Housing— Black thermoplastic, 94V-0 rated

Contacts— Copper alloy, plated as follows:

Plating A— Selectively plated .000030 [0.00076] gold on contact area, with gold flash over .000050 [0.00127] nickel on entire contact

Plating B— .000079 [0.00201] min. tin on entire contact



RELATED PRODUCT DATA

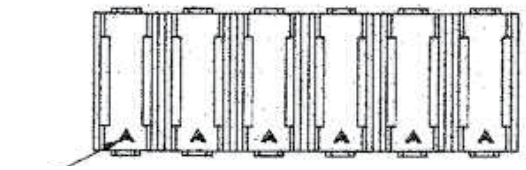
Mates with —

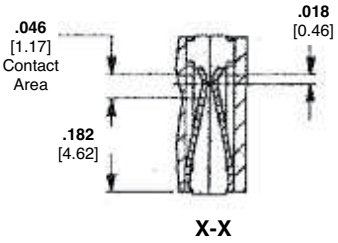
Machine Applied Posts — page 21

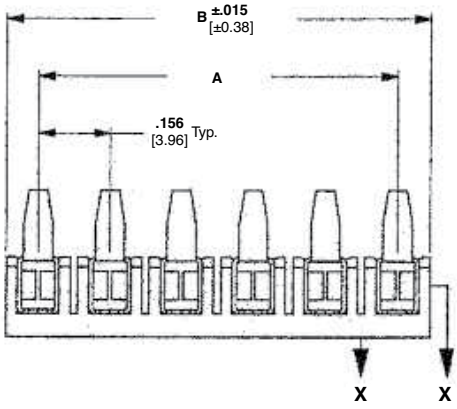
Headers— page 23

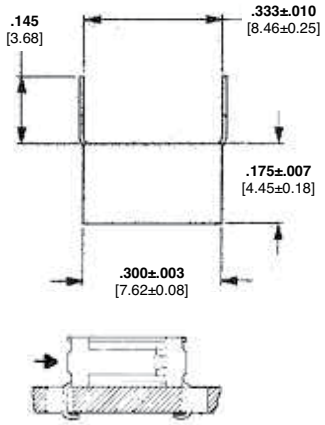
Performance Specifications— page 33

Technical Documents — page 34

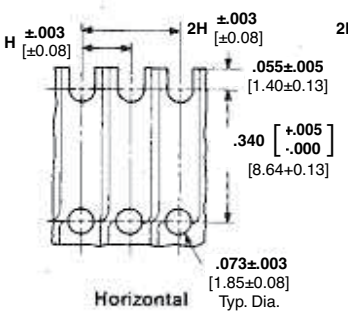




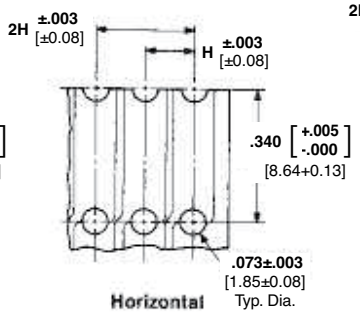




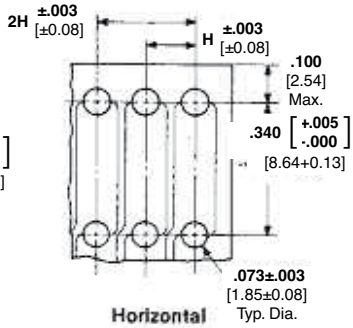
Post Entry Type C



This configuration recommended for use with machine applied posts or headers with a .405 [10.29] minimum mating end post length.*



Thisconfiguration recommended for usewith machine applied posts or headers with a .345 [18.76] minimum mating end post length.*



This configuration recommended for use with machine applied posts or headers with a .500 [12.70] minimum mating end post length.*

RECOMMENDED BOARD LAYOUTS FOR RECEPTACLE ASSEMBLIES AND INDIVIDUAL RECEPTACLES (TYPE C)

KEYING PLUG



Part No. 86181-2
(Use in Board Mount Receptacles)

The mating post length is depicted by the A dimension on page 294 (machine applied posts) and the C dimension on pages 295-297 (headers).

H-Receptacle centers may vary depending on requirements. For individual receptacles, minimum nominal centerline spacing between adjacent receptacles is .125 [3.18] for receptacle assemblies, centerline spacing between adjacent receptacles is .156 [3.96]. The .003 [0.08] tolerances are not to accumulate over length of board.

AMPMODU .031 x .062 [0.79 x 1.57] Interconnection System

PRODUCT INFORMATION

No. of Pos.	Dimensions		Standard Pressure	
	A	B	Plating A	Plating B
4	.468 [11.89]	.624 [15.85]	87988-4	-
5	.624 [15.85]	.780 [19.81]	87988-5	-
10	1.404 [35.66]	1.560 [39.62]	-	1-87987-0
19	2.808 [71.32]	2.964 [75.29]	-	-

Note: All part numbers are RoHS compliant

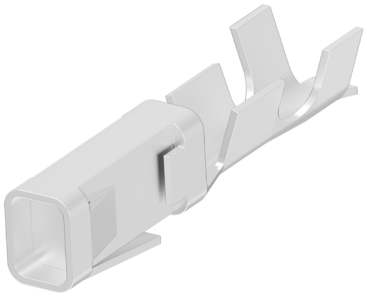
MOD I RECEPTACLES, CRIMP SNAP-IN (WIRE APPLIED), .031 X .062 [0.79 X 1.57] CENTERLINE

MATERIAL AND FINISH

Copper alloy, plated as follows:

Plating A— Selectively plated .000030 [0.00076] gold on contact area, with gold flash over .000050 [0.00127] nickel on entire contact

Plating B— .000016 [0.00041] min. tin on entire contact



RELATED PRODUCT DATA

Mate with

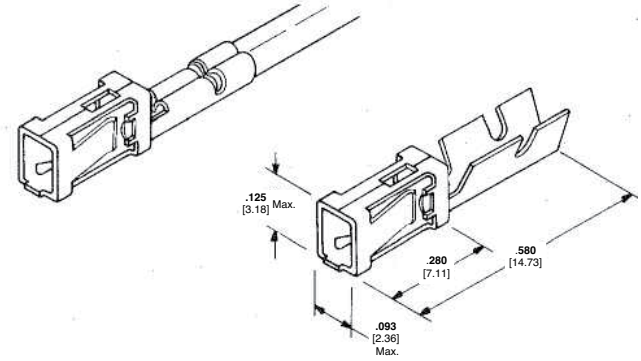
Machine Applied Posts— page 21

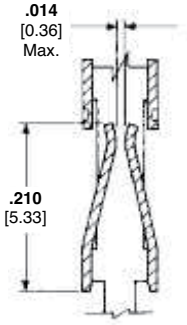
Headers— page 23

Application Tooling— page 28

Performance Specifications— page 33

Technical Documents — page 34

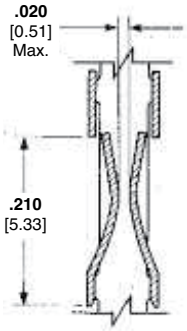




Standard Pressure Receptacle

PRODUCT INFORMATION

Wire Size Range AWG [mm2]	Ins. Dia. Range	Finish	Standard Pressure			
			Strip Form		Loose Piece	
			Packaged Quantities	Part Nos.	Packaged Quantities	Part Nos.
22-18 [0.3-0.9]	.051-.090 [1.30-2.29]	Plating A	5,000	102099-2	5,000	102103-2
		Plating B	5,000	-	5,000	102103-3



High Pressure Receptacle

Wire Size Range AWG [mm2]	Ins. Dia. Range	Finish	Standard Pressure			
			Strip Form		Loose Piece	
			Packaged Quantities	Part Nos.	Packaged Quantities	Part Nos.
22-18 [0.3-0.9]	.051-.090 [1.30-2.29]	Plating A	5,000	102100-2	5,000	102104-2
		Plating B	5,000	102100-5	5,000	102104-3
26-22 [0.12-0.4]	0.42-.073 [1.07-1.85]	Plating A	5,000	102102-2	5,000	102106-2
		Plating B	5,000	102102-5	5,000	-

Note: All part numbers are RoHS compliant

MOD I POSTS, MACHINE APPLIED, .031 X .062 [0.79 X 1.57] CENTERLINE

STRAIGHT POSTS

MATERIAL AND FINISH

Brass, plated .000030 [0.00076] gold over .000050 [0.00127] nickel on entire post

RELATED PRODUCT DATA

Mate with —

Board Mount Receptacles— page 14, page 15

Board Mount Receptacle Assemblies— page 16

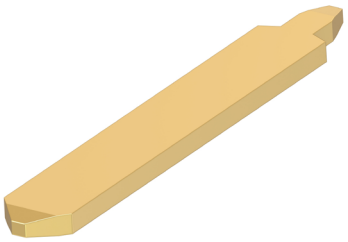
Crimp Snap-In Receptacles and Housings — page 20

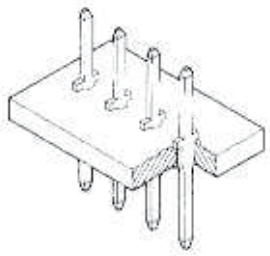
Locking Clip Contacts & Housings— page 26, page 27 (see page 26 for recommended post length).

Application Tooling — page 28

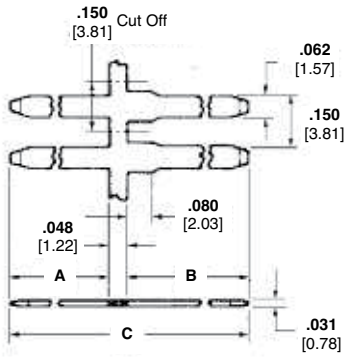
Performance Specifications— page 33

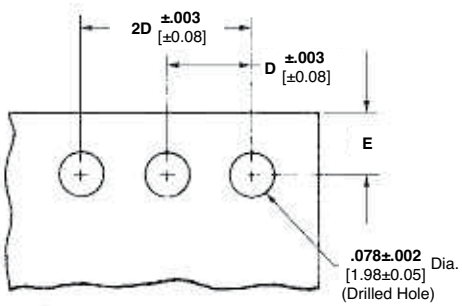
Technical Documents — page 34





Typical Assembly





Recommended Mounting Holes

D—Post centers may vary depending on requirements. Minimum nominal centerline spacing between adjacent contacts is .125 [3.18]; .003 [0.08] tolerances not to accumulate over length of board.

E—Post center location from edge of board may vary to satisfy application.

PRODUCT INFORMATION

Dimensions			Finish	Part Nos.	
A	B	C		Strip Form[1]	Loose Piece[2]
.380 [9.65]	.320 [8.13]	.748 [19.00]	Plating A	-	1-86182-5
.480 [12.19]	.187 [4.75]	.715 [18.16]	Plating B	2-5086147-2	2-5086182-2
.565 [14.35]	.187 [4.75]	.800 [20.32]	Plating A	86147-8	86182-8
.800 [20.32]	.150 [3.81]	.998 [25.35]	Plating B	1-5086147-0	-

1 Packaging quantity of 20,000 per reel.

2 Packaging quantity of 1,000 per bag.

Note: Strip form posts applied with Insertion Machine No. 3-457382-1, includes power unit and applicator.

Note: All part numbers are RoHS compliant

MOD I HEADERS, STRAIGHT POST, KEYED, .031 X .062 [0.79 X 1.57] CENTERLINE

SINGLE ROW, .156 [3.96] CENTERS

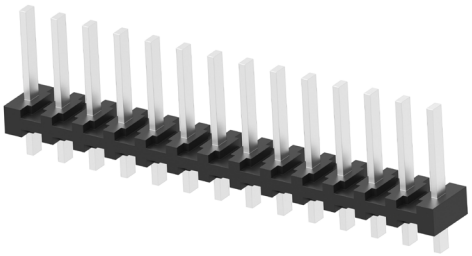
MATERIAL AND FINISH

Housing— Black thermoplastic, 94V-0 rated

Posts— Brass, plated as follows:

Plating A— Selectively plated .000030 [0.00076] gold on contact area,bwith gold flash over .000050 [0.00127] min. nickel on entire post

Plating B—.000100-.000200 [0.00254-0.00508] tin over .000030 [0.00762] nickel on entire post



RELATED PRODUCT DATA

Mate with —

Board Mount Receptacles— page 14, page 15

Board Mount Receptacle Assemblies— page 16

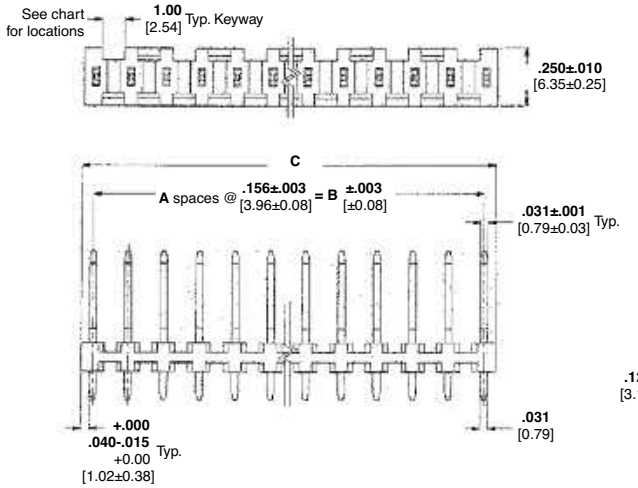
Crimp Snap-In Receptacles and Housings — page 20

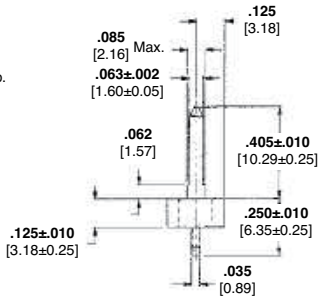
Locking Clip Contacts & Housings— page 26, page 27 (see page 26 for recommended post length).

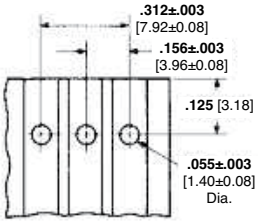
Application Tooling — page 28

Performance Specifications— page 33

Technical Documents — page 34







Recommended Board Layout



Keyway Locations

PRODUCT INFORMATION

No. of Positions	Dimension			No. of Keying Slots	Post Height D=.405 [10.29]		Post Height D=.587 [14.91]	Keyway Locations
	A	B	C		Plating A	Plating B	Plating A	
2	1	.156 [3.96]	.267 [6.78]	1	85829-2	-	-	A
3	2	.312 [7.92]	.423 [10.74]	1	85829-3	5-87160-5	-	A
4	3	.468 [11.89]	.579 [14.71]	2	85829-4	5-87160-6	87247-4	A,C
6	5	.780 [19.81]	.891 [22.63]	3	85829-6	-	-	A,C,E
7	6	.936 [23.77]	1.047 [26.59]	3	-	5-87160-8	87247-7	A,C,E,
8	7	1.092 [27.74]	1.203 [30.56]	4	85829-8	5-87160-9	-	A,C,E,G
10	9	1.404 [35.66]	1.515 [38.48]	5	1-85829-0	6-87160-1	-	A,C,E,G,J
12	11	1.716 [43.59]	1.827 [46.41]	6	1-85829-2	6-87160-3	-	A,C,E,G,J,L
14	13	2.028 [51.51]	2.139 [54.33]	7	-	6-87160-4	-	A,C,E,G,J,L,N
15	14	2.184 [55.47]	2.295 [58.29]	5	1-85829-5	-	-	A,D,G,K,N
19	18	2.808 [71.32]	2.919 [74.14]	8	-	-	1-87247-9	B,D,F,J,L,N,Q,S
20	19	2.964 [75.29]	3.075 [78.11]	10	2-85829-0	-	-	A,C,E,G,J,L,N,Q,S,U

Note: All part numbers are RoHS compliant

MOD I HEADERS, STRAIGHT POST, KEYED, .031 X .062 [0.79 X 1.57] CENTERLINE

No. of Positions	Dimension			No. of Keying Slots	Post Height D=.750 [19.05]	Post Height D=1.187 [30.15]	Keyway Locations
	A	B	C		Plating A	Plating A	
2	1	.156 [3.96]	.267 [6.78]	1	-	87283-2	A
4	3	.468 [11.89]	.579 [14.71]	2	85923-4	87283-4	A,C
5	4	.624 [15.85]	.735 [18.67]	2	85923-5	-	A,D
9	8	1.248 [31.70]	1.359 [34.52]	3	85923-9	-	A,D,G

Note: All part numbers are RoHS compliant

MOD I HEADERS, RIGHT-ANGLE POST, KEYED, .031 X .062 [0.79 X 1.57] CENTERLINE

SINGLE ROW, .156 [3.96] CENTERS

MATERIAL AND FINISH

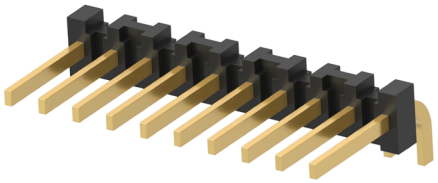
Housing— Black thermoplastic, 94V-0 rated

Posts— Brass, plated as follows:

Plating A— Selectively plated .000030 [0.00076] gold on contact area, with gold flash over .000050 [0.00127] nickel on entire post

Plating B—.000015 [0.00038] gold over .000050 [0.00127] nickel on entire post

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



RELATED PRODUCT DATA

Mate with —

Board Mount Receptacles— page 14, page 15

Board Mount Receptacle Assemblies— page 16

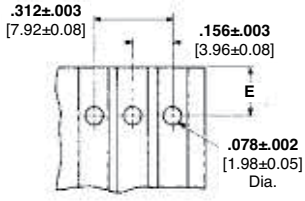
Crimp Snap-In Receptacles and Housings — page 20

Locking Clip Contacts & Housings— page 26, page 27 (see page 26 for recommended post length).

Application Tooling — page 28

Performance Specifications— page 33

Technical Documents — page 34

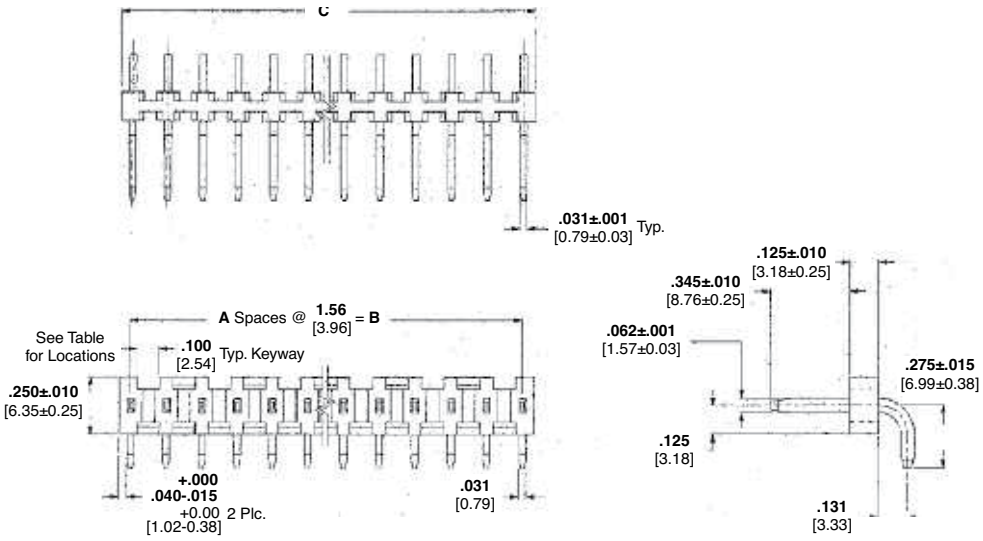


Recommended Board Layout

E DIMENSION

.345 [8.76] Post Height— .250 [6.35] for mounting header flush with board edge; .595 [15.11] for supporting mating connector on board.

.500 [12.70] Post Height— .250 [6.35] for mounting header flush with board edge; .750 [19.05] for supporting mating connector on board





Keyway Locations
(Ref Only)

PRODUCT INFORMATION

No. of Positions	Dimension			No. of Keying Slots	Post Height D=.345 [8.76]	Post Height D=.500 [12.70]	Keyway Locations
	A	B	C		Plating C	Plating A	
2	1	.156 [3.96]	.267 [6.78]	1	5-87655-2	87258-2	A
3	2	.312 [7.92]	.423 [10.74]	1	-	87258-3	A
4	3	.468 [11.89]	.579 [14.71]	2	-	87258-4	A,C
5	4	.624 [15.85]	.735 [18.67]	2	-	87258-5	A,D
10	9	1.404 [35.66]	1.515 [38.48]	5	-	1-87258-0	A,C,E,G,J

Note: All part numbers are RoHS compliant

LOCKING CLIP CONTACTS FOR .031 X .062 [0.79 X 1.57] POSTS, .031 X .062 [0.79 X 1.57] CENTERLINE

WIRE CRIMP CONTACTS WITH INSULATION SUPPORT

MATERIAL AND FINISH

Contact Body— Phosphor bronze, plated as follows:

Plating A— Selectively plated .000015 [0.00038] gold on contact area, with gold flash over .000050 [0.00127] nickel on entire post

Plating B— .000100 [0.00254] min. tin over .000050 [0.00127] nickel on entire contact

Contact Spring— Stainless steel



RELATED PRODUCT DATA

Mate with— Machine Applied Posts— page 18

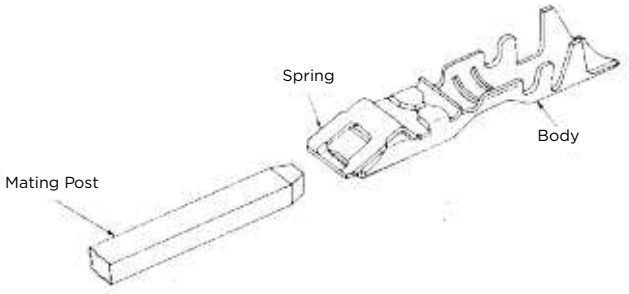
Headers (.500 Post Height Only) — page 23 page 24 (see recommended post length below)*

Housings used in— page 27

Application Tooling— page 28-page 32

Performance Specifications— page 33

Technical Documents — page 34



PRODUCT INFORMATION

Wire Size Range AWG [mm2]	Ins. Dia. Range	Finish	Contact Part Nos.	
			Strip Form	Loose Piece
22-18 [0.3-0.9]	.050-.0100 [1.27–2.54]	Plating A	-	87278-2
		Plating B	5-87269-1	5-87278-1

1AMP-O-LECTRIC KII Machine. Applicators also available for AMPOMATOR Lead Making Machines. Consult TE.

Note: These contacts must be crimped in accordance with TE Specification No. 114-25008 in order to function properly in a connector housing.Extraction Tool Part No. 91104-1 is used for removing individual contacts from connector housings and for detaching contacts from mating posts.

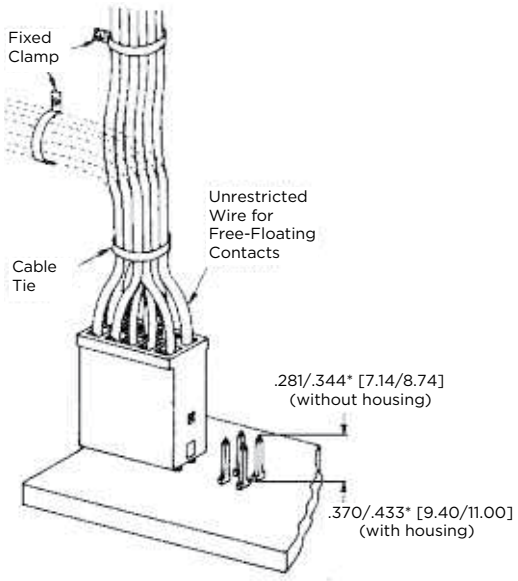


Extraction Tool Part No. 91104-1

Instruction Sheet 408-7678

Wire Harnessing

If necessary, wires can be grouped with cable ties and secured to a panel with fixed clamps. However, locking clip contacts must be free to float within the connector housings to allow proper extraction. Therefore, harnessing hardware or the use of multiple terminations per contact must not restrict the free-floating action of contacts in the housing. For more information, request Insulating and Bundling Products Catalog 124132.



*Dimension defines .031 x .062 [0.79 x 1.57] portion of post.

If post is longer than maximum specified, post tip may butt against wire ends.

Note: All part numbers are RoHS compliant

LOCKING CLIP CONNECTOR HOUSINGS, .031 X .062 [0.79 X 1.57] CENTERLINE

SINGLE ROW, .156 [3.96] CENTERS

MATERIAL AND FINISH

Housing— Black thermoplastic, 94V-0 rated

RELATED PRODUCT DATA

Contacts used with— page 26

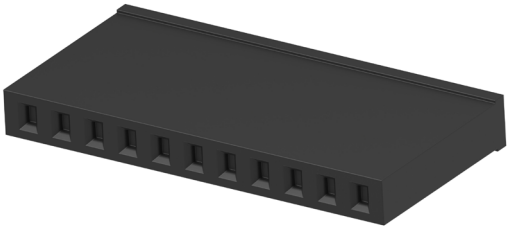
Mate with—

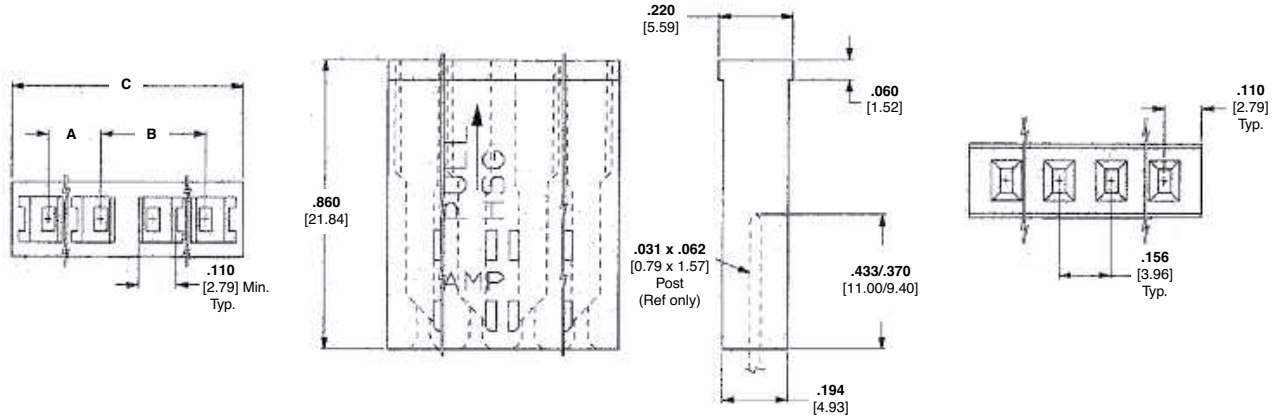
Machine Applied Posts— page 18

Headers— page 22- page 24 (see page 22 for recommended post length)

Performance Specifications— page 33

Technical Documents — page 34





PRODUCT INFORMATION

No. of Positions	Dimension			Housing Part Nos.		Keyed Positions on Mating Face
	A	B	C	UnKeyed	Keyed	
1	—	—	.200 [5.08]	87270-1	—	—
2	—	—	.376 [9.55]	87270-2	—	—
3	.156 [3.96]	.156 [3.96]	.532 [13.51]	1-87270-3	—	—
4				87270-4	—	—
4 of 5	.312 [7.92]	.312 [7.92]	.844 [21.44	—	1-87270-0	
5				1-87270-4	—	□□□■□
5 of 6	.312 [7.92]	.468 [11.89]	1.000 [25.40]	—	1-87270-2	
6				87270-5	—	□□□□■□
7				1-87270-5	—	—
8	.468 [11.89]	.624 [15.85]	1.312 [33.32]	87270-6	—	—
9	.624 [15.85]	.624 [15.85]	1.468 [37.29]	1-87270-6	—	—
10	.624 [15.85]	.780 [19.81]	1.624 [41.25]	87270-7	—	—
11	.780 [19.81]	.780 [19.81]	1.780 [45.21]	1-87270-7	—	—
12	.780 [19.81]	.936 [23.77]	1.936 [49.17]	87270-8	—	—

■ Indicates "closed cavity". No post entry hole in this position.

Notes: 1. All housings listed above will accept Locking Clip Contacts No. 87269 and 87278, refer to page 24

2. Refer to TE Instruction Sheet 408-7676 for proper contact orientation within the housings.

Note: All part numbers are RoHS compliant

APPLICATION TOOLING

FOR CRIMP SNAP-IN RECEPTACLES AND LOCKING CLIP CONTACTS

SIDE-FEED HEAVY-DUTY MINIATURE APPLICATORS (CODED HDM)



Interchangeable applicators for crimping products reeled side-by-side on single or dual carrier strips (primarily closed-barrel terminals and open-barrel contacts). Similar design as the endfeed version. All side-feed applicators include a wire stop to help correctly position the wire end in the crimping target area. For more information, requestInstruction Sheet 408-8040.

AMP-O-LECTRIC MODEL "G" TERMINATING MACHINES, 354500-1, -9, -11



Semiautomatic bench machines for crimping reeled terminals and contacts, featuring a quiet and reliable direct motor drive, microprocessor controls for ease of setup and operation, and guarding and lighting designed for operator convenience and safety. All models are equipped with either manual or automatic precision adjustment of crimp height. Machine-mounted sensors are available for crimp quality monitoring using conventional miniature-style applicators.

SPECIFICATIONS

Width —18.7-25.3 [475-643] depending on applicator type

Depth —21.5-28.1 [546-713] depending on applicator type

Height —20 [508]

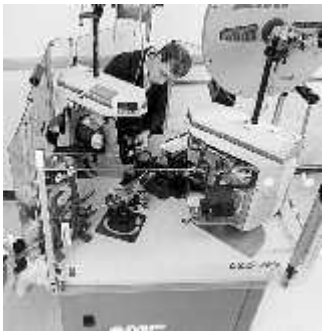
Weight —240 lb [110 kg]

Electrical —120 or 220 VAC, 50 or 60 Hz; 310 VA

Air —90-110 psi [6.21-7.59 bar], 6 scfm [0.00282 m3/s] when required with air-feed applicators

Wire Range —26-10 AWG [0.12-6 mm2] solid or stranded, depending on product applied For more information, request Catalog 65828, Video 198116, Catalog 82275 [Crimp Quality Monitor (CQM)], Video 198094.

AMPOMATOR CLS IV+ LEAD-MAKING MACHINES, 356500-1, -2, 1213400-1, -2



Fully-automatic machines that measure, cut, strip and terminate single leads. Microprocessor-controlled, and programmed and operated using an easy-tofollow, menu-driven touchscreen. Features include direct-drive terminating units with precision crimp height adjustment, fully programmable setups, wire runout and splice detection, and motorized pre-feed with wire straightener. Crimp quality monitoring is alsoavailable.

SPECIFICATIONS

Width —159 [4 040]

Depth —68 [1 730]

Height —86 [2 185] with 24 [610] dia. reel

Weight —2 000 lb [907 kg]

Electrical —220 VAC, 50 or 60 Hz, single phase, 25 A, with neutral and ground

Air —90 psi [6.21 bar], 15 scfm [0.0071 m^3/s] sustained

Wire Range —26-10 AWG [0.12-6 mm^2] stranded, 26-16 AWG [0.12-1.4 mm^2] solid

Lead Lengths —3-90 [76.2-2 285], 90-1 000 [2 285-25 400] with long lead conveyors For more information, request Catalog 124324, Video 198142 (NTSC), 199609 (PAL).

Note: For additional tooling options, contact TE or reference the TE web site.

Note: All part numbers are RoHS compliant

APPLICATION TOOLING

FOR CRIMP SNAP-IN RECEPTACLES AND LOCKING CLIP CONTACTS

AMP-O-MATIC STRIPPER- CRIMPER MACHINES, 854040-3, -4



Semiautomatic bench crimping machines that also strip the wire, and are therefore used for terminating jacketed cable. Feature manual precision adjustment of crimp height, keyed strip blades for faster, more accurate setups, and an efficient scrap removal system. All adjustments can be made from the front of the machines without special tools. Available with crimp quality monitoring.

SPECIFICATIONS

Width —14 [355]

Depth —18 [457]

Height —33 [838] without reel

Weight —150 lb [68 kg]

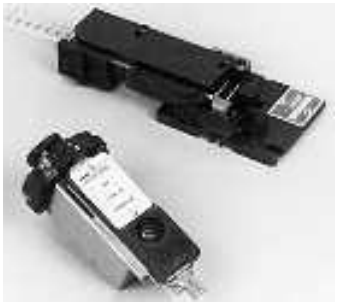
Electrical —120 VAC, 50 or 60 Hz, .5 A

Air —80-100 psi [5.52-6.90 bar], 3.5 scfm [0.00165 m^3/s]

Wire Range —32-14 AWG [0.03-2 mm^2]

For more information, request Catalog 65004, Video 198075, Catalog 82275 [Crimp Quality Monitor (CQM)], Video 198094.

STRIPPER-CRIMPER APPLICATORS (CODED SCA)



Interchangeable applicators for crimping products in AMP-O-MATIC Stripper- Crimper Machines. Consist of separate ram and lower tooling assemblies. Similar dial-in settings for different wire sizes and insulation diameters as HDM applicators. Available with sensors for use with the Crimp Quality Monitor.

For more information, request Catalog 65004 (AMP-O-MATIC Stripper-Crimper Machines), Catalog 82275 [Crimp Quality Monitor (CQM)].

KAPPA 235, AUTOMATIC CUT AND STRIP, 3-547178-1

The Kappa 235 has the capability of processing wires with a cross section of up to 4 AWG and an outside diameter of 0.59 inch. Options include an inner conductor processing kit for multiconductor cables and a flat ribbon cable kit.



SPECIFICATIONS

Width —25 [630]

Depth —16 [490]

Height —13.4 [370]

Weight —95 lb [44 kg]

Wire Cross-Sections —24-4 AWG [0.22-25 mm^2]

Flat Ribbon Cables —width up to 40mm

Length Range —0.04”-328ft [1mm - 99.99m] (+/- 0.2%)

Electrical— 110/230 V - 50/60Hz, switches automatically

COSMIC 927R MICRO-CABLE STRIPPER



The Cosmic 927R Micro-Cable Stripper was developed to reliably strip various insulation materials and micro-cable. From conductor diameter 36 AWG to 10 AWG, the stripping diameter display can be set to within 0.1mm increments. Thus optimal stripping quality is guaranteed and damage to the conductor is eliminated.

Note: For additional tooling options, contact TE or reference the TE web site.

Note: All part numbers are RoHS compliant

APPLICATION TOOLING

FOR CRIMP SNAP-IN RECEPTACLES AND LOCKING CLIP CONTACTS

CERTI-CRIMP STRAIGHT ACTION HAND TOOLS (SAHT)





Premium grade hand tools. Feature ratchet control to provide complete crimp cycle. Die sets close in a straight line. Include a contact locator and wire stop, plus an insulation crimp adjustment lever, when applicable. Approximate weight 1.3 lb [0.59 kg]

All CERTI-CRIMP head assemblies / dies, have multiple power options available. The accompanying diagram outlines those power options. See catalogs 1654714 (SDE Electric Terminator), 124208 (626 Pneumatic Tool System) and 1773381(Battery-Powered Crimp Tool Kits) for more information. For more information, request Catalog 65780.

PRO-CRIMPER III HAND TOOL





Commercial grade hand tool for crimping various products. Features ratchet control to provide complete crimp cycle. Accepts both pinned- and shoulderedstyle die sets. Locators are provided with pinned-style die sets for proper contact and wire positioning, and to help minimize contact rotation and bending during crimping. Approximate weight 1.3 lb [0.60 kg].

All PRO-CRIMPER head assemblies / dies, have multiple power options available. The accompanying diagram outlines those power options. See catalogs 1654714 (SDE Electric Terminator), 124208 (626 Pneumatic Tool System) and 1773381(Battery-Powered Crimp Tool Kits) for more information.

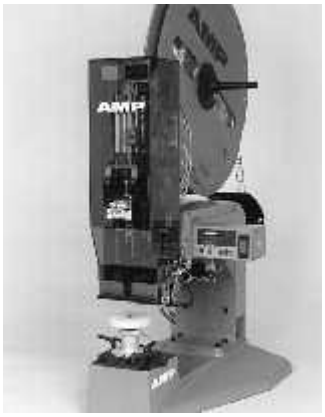
Instruction Sheet -408-9930

Note: For additional tooling options, contact TE or reference the TE web site.

APPLICATION TOOLING

FOR BOARD MOUNT RECEPTACLES AND MACHINE APPLIED POSTS

MODULAR INSERTION SYSTEM (MIS) BENCH MACHINES, 217600 SERIES, 662820 SERIES (SHOWN)



For Board Mount Receptacles

Bench machines for inserting a variety of products into pc boards. Uses the same interchangeable insertion heads as the Comp-U-Sertor II Machines. Series 217600 machines feature a manually-operated X-Y positioning fixture, plus a locator spotlight. The machine cycles when the board hole is placed on the anvil and both triggers on the dual handles attached to the X-Y fixture are depressed. Series 662820 machines, without board fixturing, cycle automatically when the hole is properly located. A stabilizing disk over the anvil helps keep the board level.

This benchtop insertion machine installs contacts into PC boards at rates to 2000 per hour. A spotlight highlights the insertion area, and lower tooling assures precise board location. The machine is activated by a foot pedal.

SPECIFICATIONS

Width —18 [457]

Depth —24 [610]

Height —18 [457]

Weight —250 lb [113 kg]

Electrical —120 to 220 VAC, 50 or 60 Hz (217600); 120 or 240 VAC, 60 Hz, single phase, 120 VA (662820)

Air —80 psi [5.52 bar] min., 15 scfm [0.00708 m³/s] min.

Insertable Area —18 x 22 [457 x 559] max.

For more information, request Catalog 296059.

P300 AUTOMATIC INSERTION MACHINE



Automatic machine for inserting a variety of contacts into pc boards (PCBs). Equipped with an insertion tool (comprised of a product- specific insertion head, an anvil, and a product feed mechanism). Stepper-motor driven X-Y table positions PCBs under insertion head. Surface Mount Equipment Manufacturers Association (SMEMA) compatible inlinebPCB Insertion Station for posts, tabs, receptacles or sockets. Stand-alone unit is field upgradeable to Pass Through. Mounts up to four TE pneumatic insertion heads. Modem diagnostics standard, vision system optional. Control panel used to program and monitor entire insertion process.

SPECIFICATIONS

Width —57.5 [1 460]

Depth —64.5 [1 640]

Height —60 [1 520]

Weight —Depending on configuration

Electrical —110 V, 60 Hz

Air —87 psi [6 bar]

Insertable Area —24 x 16 [600 x 400]

For more information, contact TE.

Note: For additional tooling options, contact TE or reference the TE web site.

Note: All part numbers are RoHS compliant

APPLICATION TOOLING

FOR BOARD MOUNT RECEPTACLES AND MACHINE APPLIED POSTS

P350 PIN INSERTION MACHINE



The P350 is a fully automatic inline pin insertion machine capable of applying reeled pins, tabs, receptacles and similar products into PCBs. With inline operation, an automatic tool changer and insertion rates up to 5 per second, it is focused at fully automatic high speed operation to maximize throughput while minimizing costly scrap. A servo powered XY table positions the PCB under a central drive station at high speed. The tool changer can hold up to 3 insertion heads each capable of applying a different product. A unique rotary insertion finger allows the application of products at up to 7 different angles without rotating the PCB. This allows the P350 to apply product at different angles without a reduction in insertion rate or the potential positioning error associated with PCB rotation. Icon drivensoftware with touch screen provides a simple to use, intuitive operator interface. The P350 provides a wide range of solutions for pin insertion applications. Quick change tooling packs, and a wide range of options make it a flexible high speed platform.

SPECIFICATIONS

Width —102 [2600]

Depth —118 [3000]

Height —87 [2200]

Weight —approx 3500 lb [1600 kg]

Electrical —230 V, 50-60 Hz, 10 A

Air —600 kPa dried air

Max. Board Size —17.5 x 17.5 [450 x 450]

PERFORMANCE SPECIFICATIONS

The electrical, mechanical and environmental characteristics of the AMPMODU .031 x .062 [0.79 x 1.57] Interconnection System are listed below:

MECHANICAL CHARACTERISTICS

CONTACT DURABILITY

Plating	Receptacles		Locking Clip Contacts
	Standard Pressure	High Pressure	
.000016 [0.00041] Min. Tin	75 Cycles	25 Cycles	N/A
.000079 [0.00201] Min. Tin	75 Cycles	25 Cycles	N/A
.000100 [0.00254] Min. Tin	N/A	N/A	25 Cycles
.000015 [0.00038] Gold	75 Cycles	50 Cycles	25 Cycles
.000030 [0.00076] Gold	200 Cycles	100 Cycles	N/A

ELECTRICAL CHARACTERISTICS

Contact Current Rating— 5 amperes max. for single contact in free bair, could vary due to ambient temperature, wire size and duty cycles.

Contact Resistance— 12 milliohms at 100 ma and 50 mv open circuit.

Dielectric Rating— At Sea Level – 1200 VAC between contacts on .156 [3.96] centers for 1 minute. Insulation Resistance— 5 x 103 megohms (initial)

Insulation Resistance— 5 x 10^3 megohms (initial)

Operating Temperature— -65°C to 105°C [-85°F to 221°F] (Gold Plated) -65°C to 60°C [-85°F to 140°F] (Tin Plated)

CONTACT DURABILITY

Receptacles	Mating	16 oz. [4.45N] max. per contact after 3 mating cycles (standard pressure)
		–30 oz. [8.34N] max. per contact after 3 mating cycles (high pressure, gold)
		–60 oz. [16.68N] max. per contact after 3 mating cycles (high pressure, tin)
	Unmating	1 oz. [0.28N] min. per contact after 3 mating cycles (standard pressure)
		3 oz. [0.83N] min. per contact after 3 mating cycles (high pressure)
Locking Clip Contacts	Mating	4 lb. [17.79N] max. per contact after 3 mating cycles
	Unmating	2 lb. [8.90N] min. per contact after 3 mating cycles

Note: All part numbers are RoHS compliant

TECHNICAL DOCUMENTS

Various technical documents are available for your use:

Product Specifications describe technical performance characteristics and verification tests. They are intended for the Design, Component and Quality Engineer.

108-25016 Interconnection System, Standard Pressure

108-25025 Interconnection System, High Pressure, Gold

108-25025-1 Interconnection System, High Pressure, Tin

108-36029 Locking Clip Connectors

Application Specifications describe requirements for using the product in its intended application and/or crimping information. They are intended for the Packaging and Design Engineer and the Machine Setup Person.

114-25000 Crimp Snap-In Receptacle Contacts

114-25004 Board Mount Receptacle Contacts

114-25008 Locking Clip Contacts

114-25011 Machine Applied Straight Posts

Instruction Sheets provide instructions for assembling or applying the product. They are intended for the Manufacturing Assembler or Operator.

408-7308 Clinching Procedures for Header Assemblies

408-7411 Suggestions for Wave Soldering AMPMODU Receptacles

408-7594 TE Hand Tool 90274-2 for Crimping Crimp Snap-In 18-22 AWG Contacts

408-7750 TE Hand Tool 90328-1 for Crimping Crimp Snap-In Contacts (22-26 AWG)

408-7676 AMPMODU Locking Clip Connectors and Contacts

408-7671 TE Hand Tool 90308-1 for Crimping Locking Clip Contacts

408-7678 TE Extraction Tool 91104-1 for Locking Clip Contacts

408-7981 Clinching Procedures for Receptacle Assemblies

408-9451 TE Extraction Tool 843473-1 for Crimp Snap-In Receptacles

Note: All part numbers are RoHS compliant

ENGINEERING NOTES

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06/26 BH