AMPMODU

Interconnection System

Economy Line

Post Size 0,64 x 0,64 (.025" x .025")
2,54 mm. (.100") centers

Datasheet
81-4014
Revision 09-82

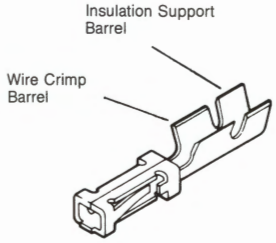
Crimp-Snap-In Receptacle Contacts

For Contact Housings refer to page 2 and 5.

Contact Material : Phosphor Bronze

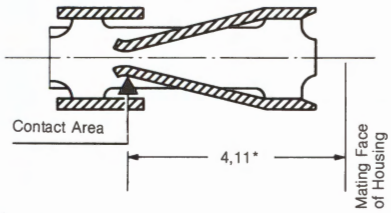
Plating Code (A): Selective 0,8 µm Gold in the contact area balance gold flash, entire contact 1,3 µm Nickel undercoating.

(B): 2,5 µm pre-tinned



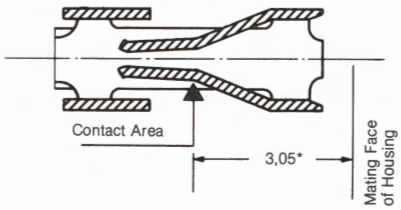
Standard Pressure Configuration

(AMP Product Spec. No. 108-9008)



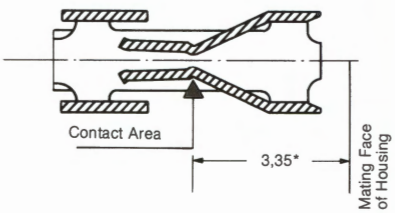
Intermediate Pressure Configuration

(AMP Product Spec. No. 108-15012)



High Pressure Configuration

(AMP Product Spec. No. 108-25007)



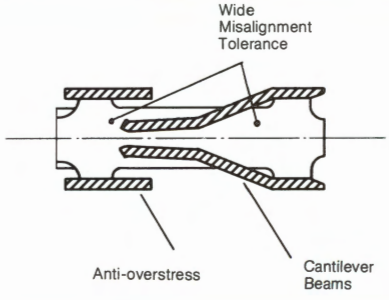
* Nominal distance of contact point to mating face of housing.
Only valid for application in contact housings listed on page 2.

Wire Size mm² (AWG)	Insul. Dia mm (max.)	Plating Code	Part Numbers Contacts in Stripform for Mini-Applicator					
			Standard Pressure Contacts		Intermediate Pressure Contacts		High Pressure Contacts	
			Strip	Loose Piece	Strip	Loose Piece	Strip	Loose Piece
0,05-0,14 (30-26)	1,2	A	**141599-6**	**141602-3**	**141696-4**	**141707-1**	**166313-2**	**166311-2**
		B	—	—	**2-141696-2**	**1-141707-1**	**166313-3**	**166311-3**
0,12-0,56 (26-20)	1,4	A	**141600-6**	**141603-3**	**141702-4**	**141708-1**	**166309-2**	**166310-2**
		B	—	—	**2-141702-2**	**1-141708-1**	**166309-3**	**166310-3**

Handtool: (Instr. Sheet 7538) Part No. **654188-1** or **90202-2**
Contact Extraction Tool: (Instr. Sheet 7405) Part No. **91052-1**

Contact Features

The AMPMODU receptacle cross-section is primarily rectangular, with rounded corners. Two integral cantilever beams contact the mating square male posts. Deflection of these spring members is limited by antioverstress and excessive permanent deformation is prevented. This feature allows a wide range for tolerance of 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.



Receptacle Housings

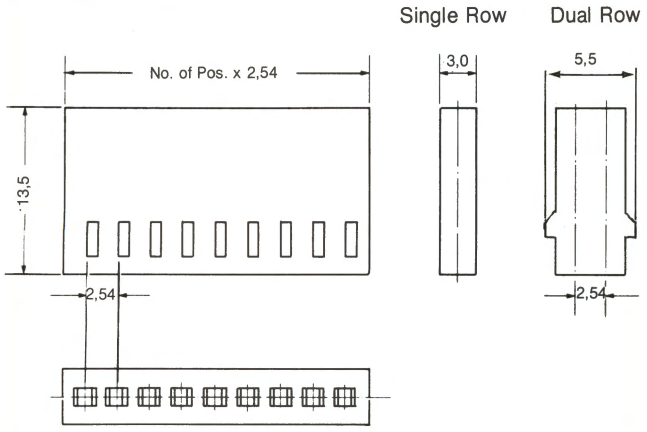
For Contacts refer to page 1

Dimensions in millimeters.

Material:
Green Glass-filled Polyamide

Without Locking Latches

(will mate with Pin Headers listed on page 3)

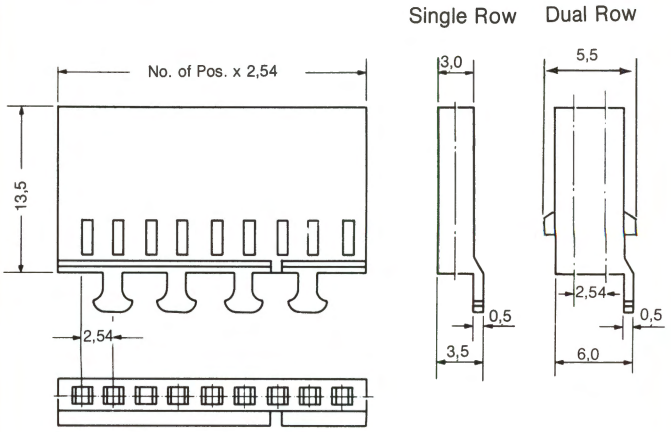


Number of Row Positions	Part Numbers	
	Single Row	Dual Row
2	**925366-2**	**925367-2**
50	**5-925366-0**	**5-925367-0**

The number of positions is indicated by pre- and suffixes to the basic partnumber, i.e.:
1-925366-2 = 12 pos. single row housing without locking latches
1-925370-5 = 15 pos. dual row (2 x 15 = 30 pos.) housing with locking latches.

With Locking Latches

(will lock with integrated knobs of Pin Headers listed on page 3)



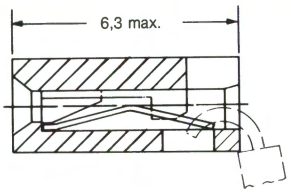
Number of Row Positions	Part Numbers	
	Single Row	Dual Row
2	**925369-2**	**925370-2**
50	**5-925369-0**	**5-925370-0**

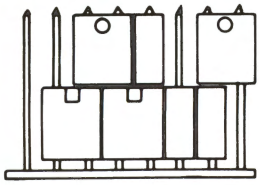
Single Row Housings minimum 2 pos., maximum 50 pos.
Dual Row Housings minimum 2 x 2 pos., maximum 2 x 50 pos.

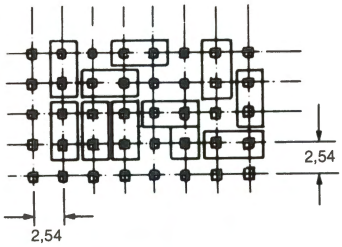
When 1 x 2 pos. dual row housing is required, the use of a 2 pos. single row housing **without** locking latches is recommended.

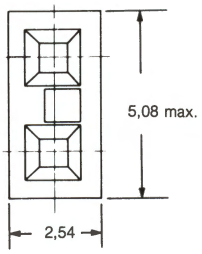
Shunt for posts 0,64 x 0,64

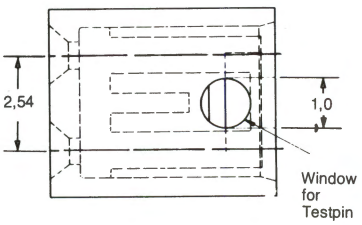
Material:
Housing - Glass-filled Thermoplastic Polyester
Receptacle Contact - Beryllium Copper
Contact Plating - see part number table





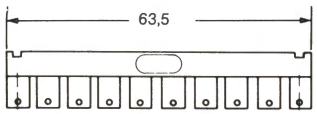






2 pos. Receptacle Assembly for programming purposes (supplied on carrierstrip in units of 10 shunts)

Carrierstrip of 10 shunt units



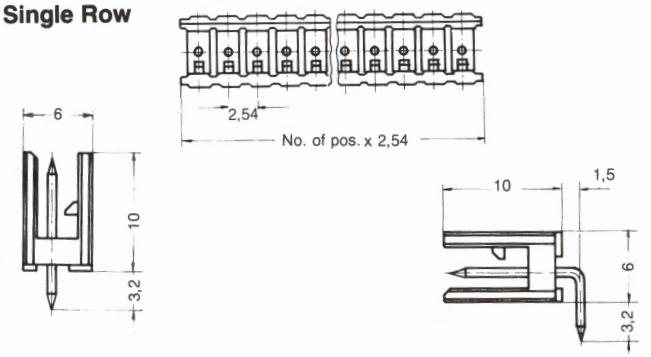
Part Number per single shunt	Contact Plating	Housing Color
141767-1	0,4 µm Gold over 1,3 µm Nickel	Green
141767-3	2,5 µm pre-tinned	Black
141767-5	1,0 µm Gold over 1,3 µm Nickel	Green

AMP Product Specification No. 108-15015

Mod II Pin Headers/Mod IV Receptacle Housings

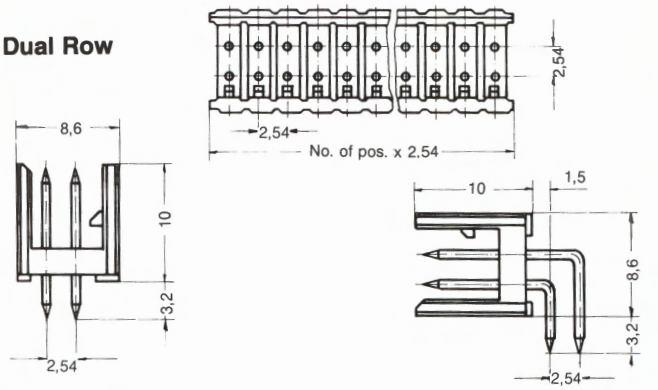
Mod II Pin Header Assemblies - Shrouded

Single Row



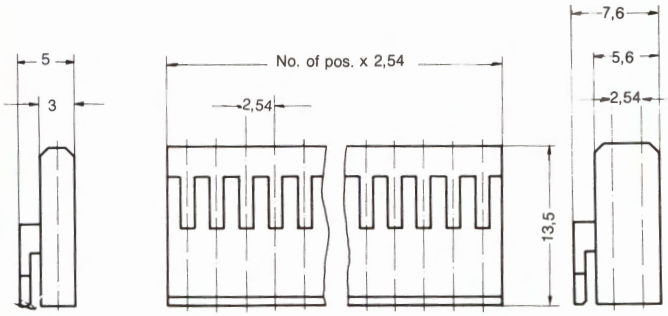
Number of Row Positions	Part Numbers Straight	Part Numbers Right Angle	Plating
3 36	**826467-3** **3-826467-6**	**826468-3** **3-826468-6**	0,8 µm Gold over 1,3 µm Nickel undercoating
3 36	**827295-3** **3-827295-6**	**827296-3** **3-827296-6**	2,0 µm Tin over 1,3 µm Nickel undercoating

Dual Row



Number of Row Positions	Part Numbers Straight	Part Numbers Right Angle	Plating
2 x 3 2 x 36	**826469-3** **3-826469-6**	**826470-3** **3-826470-6**	0,8 µm Gold over 1,3 µm Nickel undercoating
2 x 3 2 x 36	**827297-3** **3-827297-6**	**827298-3** **3-827298-6**	2,0 µm Tin over 1,3 µm Nickel undercoating

MOD IV Receptacle Housings



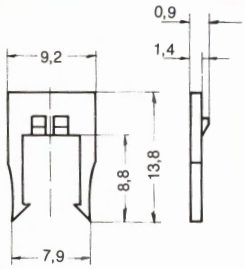
Number of Row Positions	Part No. Single Row
3	**926475-3**
36	**3-926475-6**

Number of Row Positions	Part No. Dual Row
2 x 3	**926476-3**
2 x 36	**3-926476-6**

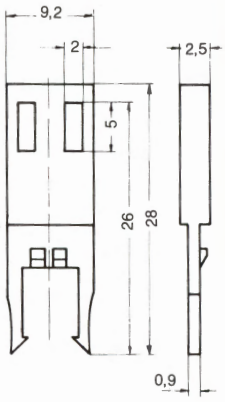
The number of positions is indicated by pre- and suffixes to the basic partnumber, i.e.:
1-926475-6 = 16 pos. single row housing
2-827298-3 = 23 pos. dual row (2 x 23 = 46 pos.) right angle header

For Crimp-Snap-In Receptacle Contacts
refer to page 1.

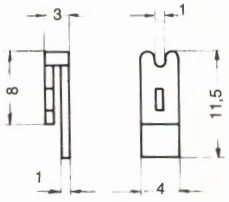
Retention Clip
without strain relief
Part Number:
926477-1 (black)
926477-2 (green)
926477-3 (red)



Retention Clip
with strain relief
Part Number:
926478-1 (black)
926478-2 (green)
926478-3 (red)



Keying Plug
Part Number:
926498-1 (black)
926498-2 (green)
926498-3 (red)



Keying Plug can be placed on any desired position of headers.

Receptacle Assemblies - Board Mounted

Dimensions in millimetres.

Material:

Housing - see Part Number table
PES = Glass-filled Polyester, green
DAP = Dyallyl Phtalate, blue

Receptacle Contact - Phosphor Bronze

Plating Code (A): Duplex plated Standard Pressure Contact, selective 0,8 µm Gold in the contact area, solder tines 2 µm Tin, entire contact 1,3 µm Nickel undercoating

(B): Standard Pressure Contact entirely 2 µm pre-tinned

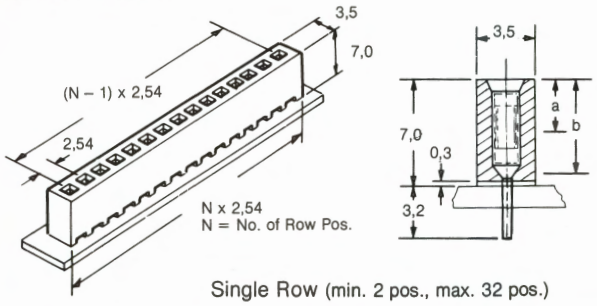
(C): High Pressure Contact entirely 2 µm pre-tinned

Recommended p.c. board tkn.: 1,6 mm nom.

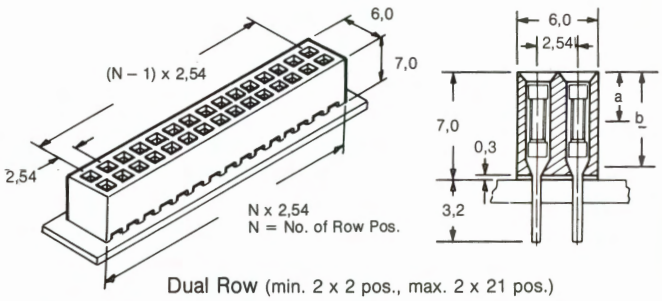
Contact Keying Plug

Part No. **86286-1**
(Polyamide, naturel)

Vertical Mount



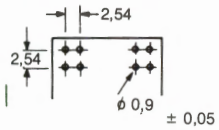
Single Row (min. 2 pos., max. 32 pos.)



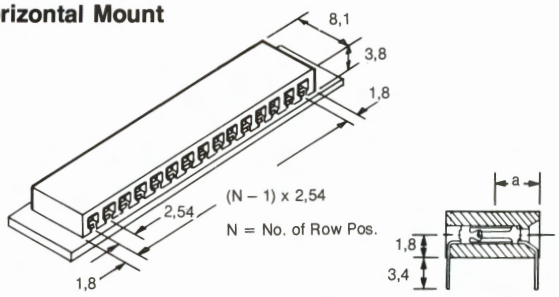
Dual Row (min. 2 x 2 pos., max. 2 x 21 pos.)

Plating Code	No. of Row Pos.	Part Numbers Single Row	No. of Row Pos.	Part Numbers Dual Row	Housing Material	Dimension a	Dimension b
A	2 32	**826044-2** **3-826044-2**	2 21	**826166-2** **2-826166-1**	PES	3,6	6,4
B	2 32	**826691-2** **3-826691-2**	2 21	**826802-2** **2-826802-1**	PES	3,6	6,4
C	2 32	**166851-2** **3-166851-2**	2 21	**166877-2** **2-166877-1**	PES	3,3	6,4

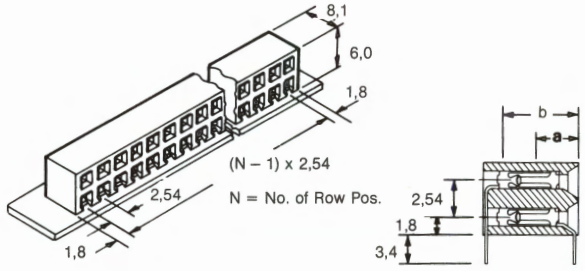
P.c. board lay-out*



Horizontal Mount



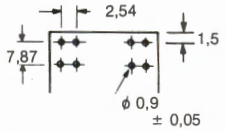
Single Row (min. 2 pos., max. 65 pos.)



Dual Row (min. 2 x 2 pos., max. 2 x 65 pos.)

Plating Code	No. of Row Pos.	Part Numbers Single Row	Part Numbers Dual Row	Housing Material	Dimension a	Dimension b
A	2 65	**141591-2** **6-141591-5**	— —	DAP	5,3	—
A	2 65	— —	**141592-2** **6-141592-5**	DAP	5,3	7,2

P.c. board lay-out*



By the end of 1982
Horizontal Receptacle Headers
will come available in black
Glass-filled Polyester.

The number of positions is indicated by
pre- and suffixes to the basic partnumbers, i.e.:

1-826044-4 = 14 pos. single row vertical header
1-826166-7 = 17 pos. dual row (2 x 17 = 34 pos.) vertical header
3-141591-4 = 34 pos. single row horizontal header
2-141592-0 = 20 pos. dual row (2 x 20 = 40 pos.) horizontal header

Dimensions see cross sections
a = nominal distance of contact point to mating face
b = maximum post insertion depth

* Note: tolerances on row pitch dimension not cumulative.

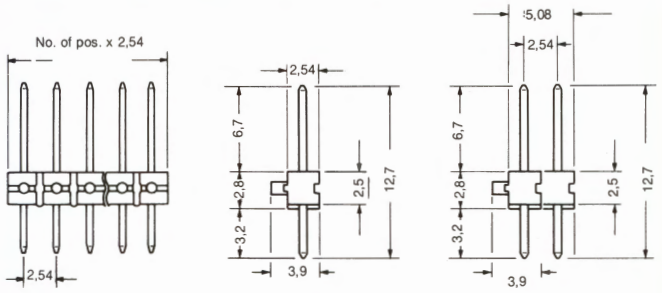
Pin Header Assemblies

Dimensions in millimeters

Material:
Post Carrier - Polyamide, green (for headers with Locking Feature)
Glass-filled Thermoplastic Polyester (for headers without Locking Feature).
Posts - Phosphor Bronze
Plating Code (A): Duplex plated, selective 0,8 µm Gold over min. 4,4 mm length in the contact area, solder tines 2 µm Tin, entire contact 1,3 µm Nickel undercoating
(B): Entire post 2 µm pre-tinned, 1,3 µm Nickel undercoating

Post Size: 0,64 x 0,64
Recommended p.c. board hole: 1,0 Ø

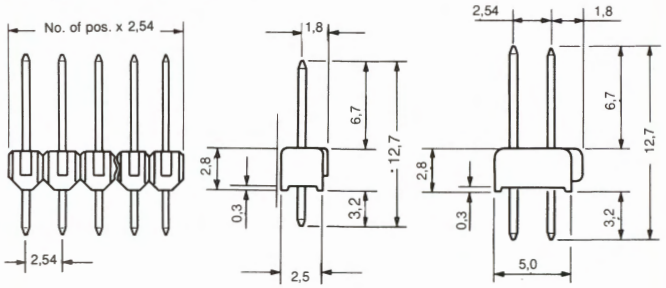
Straight Pin Headers (With Locking Feature)



Single Row Dual Row

Plating Code	Number of Row Positions	Part Numbers	
		Single Row	Dual Row
A	2	**825433-2**	**825440-2**
	50	**5-825433-0**	**5-825440-0**

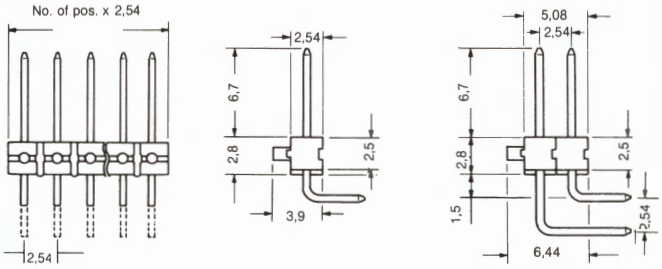
Straight Pin Headers



Single Row Dual Row

Plating Code	Number of Row Positions	Part Numbers	
		Single Row	Dual Row
A	1	**826629-1**	**826632-1**
	50	**5-826629-0**	**5-826632-0**
B	1	**826926-1**	**826925-1**
	50	**5-826926-0**	**5-826925-0**

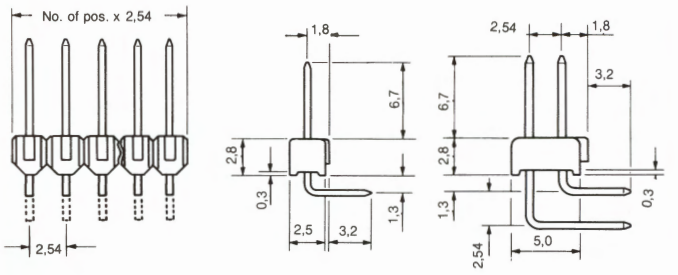
Right Angle Pin Headers (With Locking Feature)



Single Row Dual Row

Plating Code	Number of Row Positions	Part Numbers	
		Single Row	Dual Row
A	2	**825437-2**	**825457-2**
	50	**5-825437-0**	**5-825457-0**

Right Angle Pin Headers



Single Row Dual Row

Plating Code	Number of Row Positions	Part Numbers	
		Single Row	Dual Row
A	1	**826631-1**	**826634-1**
	50	**5-826631-0**	**5-826634-0**
B	1	**826947-1**	**826953-1**
	50	**5-826947-0**	**5-826953-0**

The number of positions is indicated by pre- and suffixes to the basic partnumber, i.e.:
2-825433-0 = 20 pos. single row straight header
2-826634-0 = 20 pos. dual row (2 x 20 = 40 pos.) right angle header (Plating code A), duplex gold plated posts.

Single Row Pin Headers minimum 2 pos., maximum 50 pos.
Dual Row Pin Headers minimum 2 x 2 pos., maximum 2 x 50 pos.

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