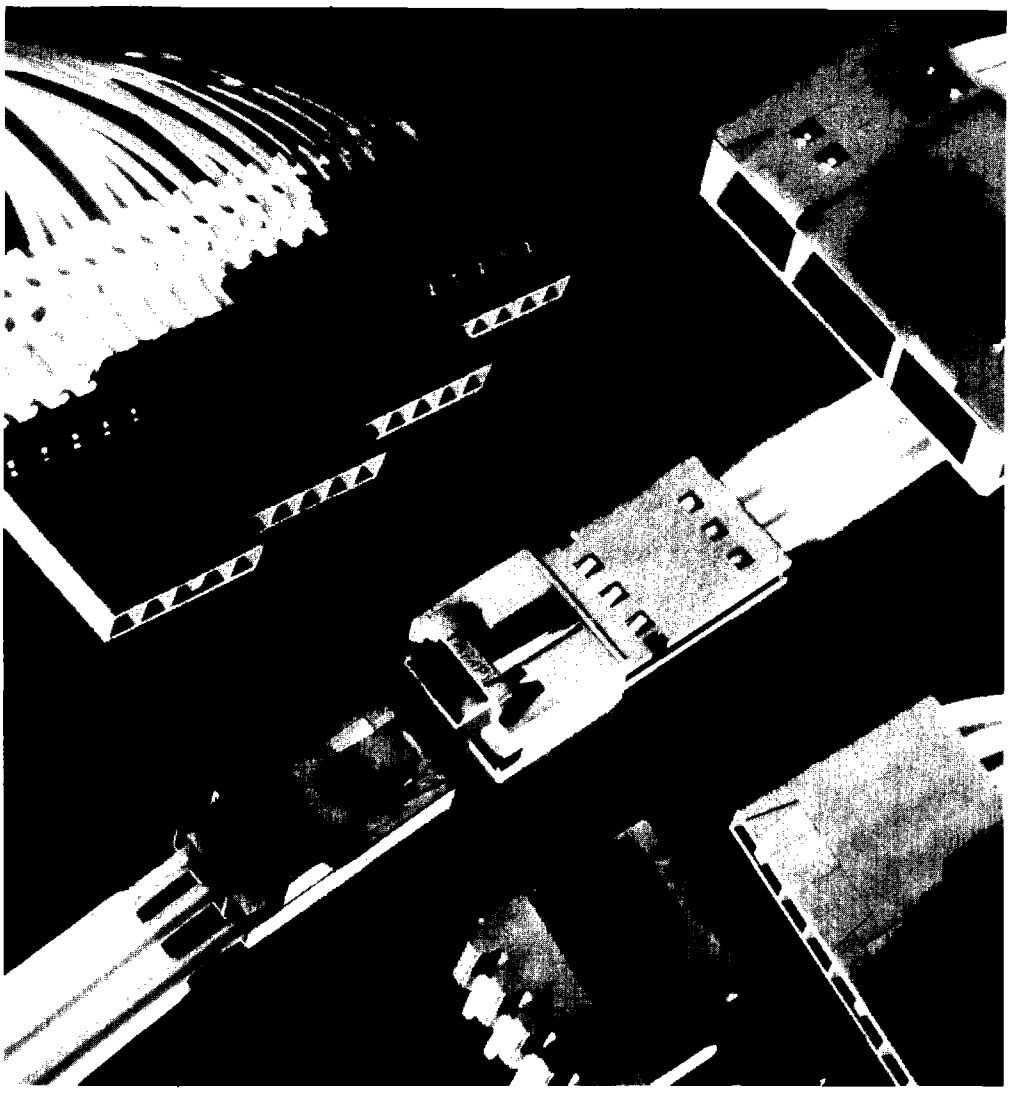
AMPMODU MTE Interconnection System

Specifications subject to change.
For latest design specifications...
1-800-522-6752



The AMPMODU MTE Interconnection System offers both wire-to-board and wire-to-wire connectors using .025 [0.64] sq. post technology.

The AMPMODU MTE Interconnection System consists of single row housings with contacts preloaded on .100 [2.54] centers. Housings are furnished with contacts partially inserted, leaving the termination areas exposed. Final contact insertion is accomplished automatically by AMP application equipment, and manually when terminated with the AMP pistol grip hand tool.

The heart of the system is the insulation displacement contact design, featured in both pin and receptacle contacts. The receptacle contact, available in either standard or high-pressure, features dual cantilever beams in an enclosed "box." The post stop prevents a mating post from disturbing the wire termination and also limits the mating depth of a long post to protect a wrap-type termination at the base of the post. The forward contact stop prevents contact overinsertion prior to termination. All contacts are furnished on carrier strips which are interlocked for stability and positive location during termination.

Single row housings are available in sizes 2 through 25 positions. Included are three styles of receptacle housings—plain, polarized/latching and ribbed and two styles of pin housings, shrouded with polarizing/latching feature and ribbed.

See pages 3249 and 3250 for AMP application tooling.

Dimensioning:
Dimensions are in inches and millimeters
Values in brackets are metric equivalents
Metric symbols used are:
mm² (square millimeter)
C (Celsius)
N (newton)

Note: Dimensions are for reference purposes only. Customer drawings are available on request.

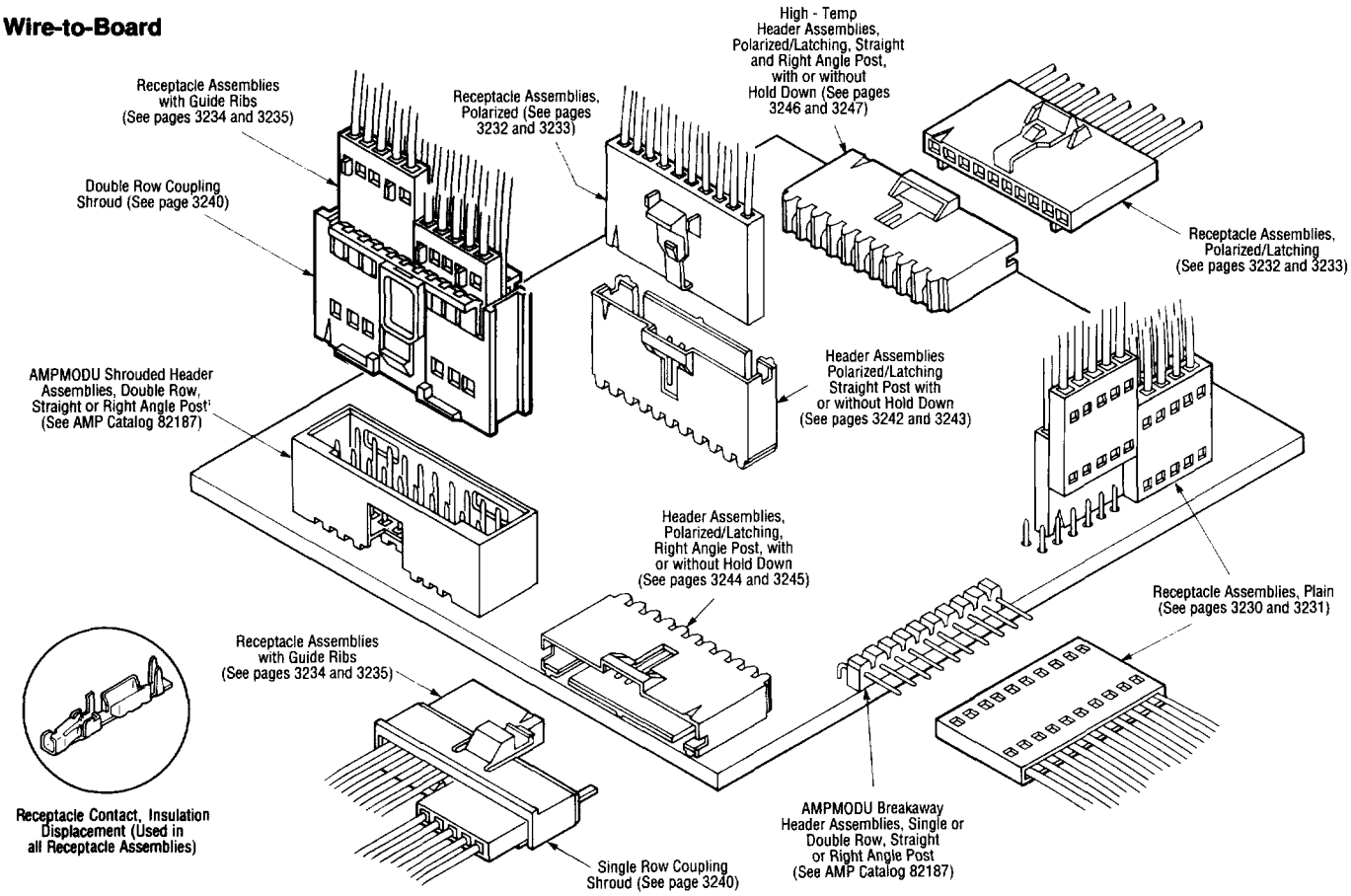
Product Facts

- Receptacle assemblies mate with .025 [0.64] sq. posts; mating post length is .200 [5.08] min., .250 [6.35] max.
- Proven AMPMODU receptacle contact design; dual cantilever beams, built-in anti-overstress, completely enclosed "box" design, standard or high-pressure
- Insulation displacement technology
- Two contact sizes for terminating 30-22 AWG [0.05-0.3 mm²] wire range; .054 [1.37] max. insulation diameter with an insulation wall thickness of .015 [0.38] max.
- Choice of gold duplex or tin plated contacts
- Interchangeable crimp snap-in pin and receptacle contacts available
- Housing sizes 2 through 25 positions, single row .100 [2.54] centers
- Plain housings are end-to-end and/or back-to-back stackable for open pin field applications
- Optional header "hold down" feature prevents movement prior to flow soldering
- Integral latch provides positive retention between header and receptacle housing
- Coupling shrouds permit ganging of smaller connectors with guide ribs to form larger single or double row latching connectors
- Mass terminating tooling assures lowest applied cost for all production needs
- SMT compatible, high-temp headers available
- Recognized under the Component Program of Underwriters Laboratories Inc. File No. E28476
- Certified by Canadian Standards Association File No. LR16455

Specifications subject to change.
For latest design specifications...
1-800-522-6752

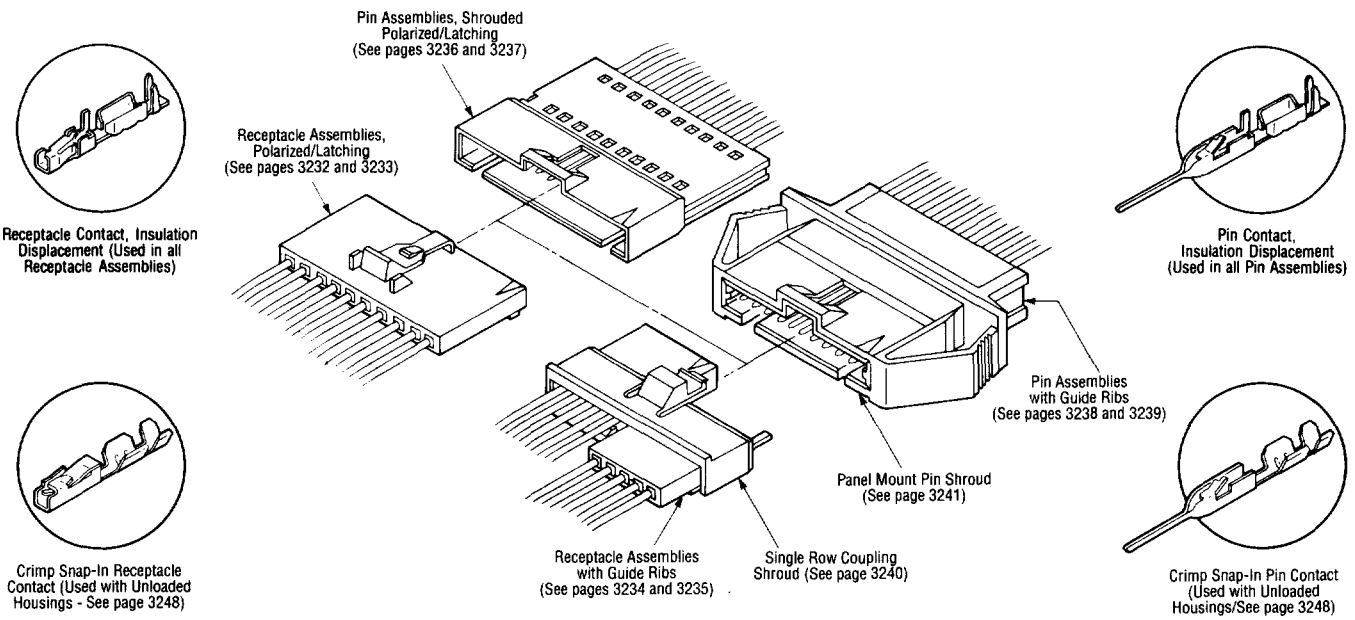
AMPMODU MTE Interconnection System
(Continued)

Wire-to-Board



[1]Mating AMPMODU Double Row Shrouded Header Assemblies must have .318 [8.08] mating post length and .150 [3.81] dimension from centerline of last post to inside of end shroud wall.

Wire-to-Wire



Note: For wire-to-wire applications shown above, all pin and receptacle assembly combinations are intermateable.

Receptacle Assemblies Plain, Single Row .100 [2.54] Centers

Specifications subject to change.
For latest design specifications...
1-800-522-6752

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

Material and Finish:

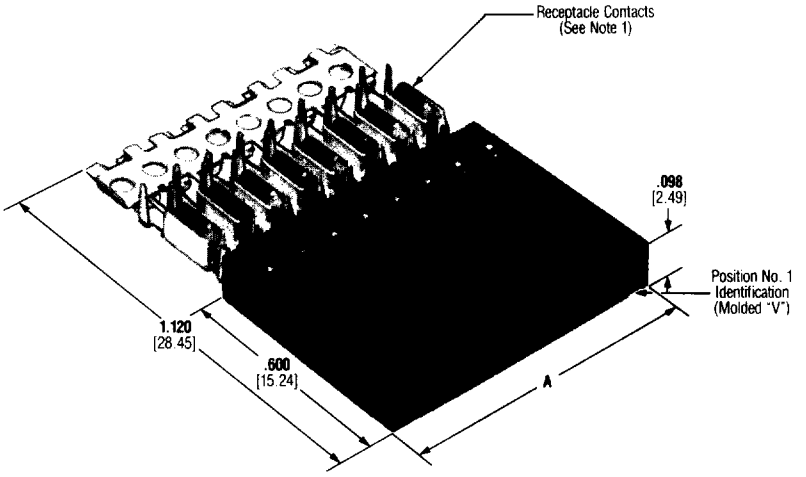
Housing—Black thermoplastic, 94V-0 rated

Contact—Copper alloy, plated tin or gold duplex

Related Product Data:

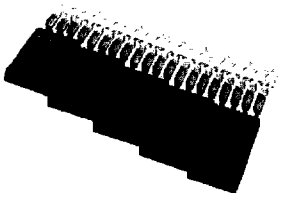
Mateable AMPMODU Products:
Breakaway Header Assemblies - AMP Catalog 82187
Machine Applied Bandolier Posts - AMP Catalog 82187
Single or Double Row Shrouded Headers with .066 [1.676] End Dimension - AMP Catalog 82187
Interchangeable Crimp Contacts - page 3248
Application Tooling - Pages 3249 and 3250
Performance Specifications - Page 3251
Technical Documents - Page 3251

Note: Insulation displacement contacts accept an insulation diameter of .030 [0.76] min. to .054 [1.37] max. with an insulation wall thickness of .015 [0.38] max. Mating post length for preloaded housings is .200 [5.08] min., 250 [6.35] max.



Standard and High Pressure Assemblies in Strip Form

Preassembled housings in strip form are available in positions 2 through 5 in Standard Assemblies and 2 through 10 in High Pressure Assemblies.



Standard Strip Form Receptacles

No. of Pos.	Housing Quantities per Strip Segment	Unit Package Order Quantities	Standard Strip Form Receptacle					
			30-26 AWG [0.05-0.15mm²] Wire			26-22 AWG [0.12-0.3mm²] Wire		
			Tin Plating[1]	Duplex Plating[2]	Duplex Plating[3]	Tin Plating[1]	Duplex Plating[2]	Duplex Plating[3]
2	10	110	103977-1	103978-1	103979-1	103974-1	103975-1	103976-1
3	5	70	103977-2	103978-2	103979-2	103974-2	103975-2	103976-2
4	5	55	103977-3	103978-3	103979-3	103974-3	103975-3	103976-3
5	4	44	103977-4	103978-4	103979-4	103974-4	103975-4	103976-4

High Pressure Strip Form Receptacles

No. of Pos.	Housing Quantities per Strip Segment	Unit Package Order Quantities	30-26 AWG [0.05-0.15mm²] Wire	26-22 AWG [0.12-0.3mm²] Wire
2	10	110	104438-1	104439-1
3	5	70	104438-2	104439-2
4	5	55	104438-3	104439-3
5	4	44	104438-4	104439-4
6	4	36	104438-5	104439-5
7	2	30	104438-6	104439-6
8	2	26	104438-7	104439-7
9	2	24	104438-8	104439-8
10	2	22	104438-9	104439-9

[1] 0.000100 [0.00254] tin-lead over 0.000050 [0.00127] nickel on entire contact.
[2] 0.000015 [0.00038] gold on mating area, 0.000050 [0.00127] min. tin-lead on termination area, with entire contact underplated 0.000050 [0.00127] nickel.
[3] 0.000030 [0.00076] gold on mating area, 0.000050 [0.00127] min. tin-lead on termination area, with entire contact underplated 0.000050 [0.00127] nickel.

Notes:
1. Receptacle assemblies are furnished with strip contacts partially inserted into housing--contacts latched into "preload" windows. Contacts are fully inserted into housings automatically when terminated with AMP application machines, or manually when terminated with AMP pistol grip hand tool.
2. Order quantity reflects number of individual housings required.
3. Keying Plugs available, see page 3248
4. High pressure receptacle contacts can be made available in other housing styles and position sizes. Contact your AMP sales representative.

Specifications subject to change.
For latest design specifications...
1-800-522-6752

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

Chart contains dimensions in inches over millimeters.

Individual Assemblies

No. of Pos.	Dimension A	Unit Package Order Quantities	Individual Receptacle Assembly 30-26 AWG [0.05-0.15mm²] Wire			Individual Receptacle Assembly 26-22 AWG [0.12-0.3mm²] Wire			Unloaded[4] Housings
			Tin Plating[1]	Duplex Plating[2]	Duplex Plating[3]	Tin Plating[1]	Duplex Plating[2]	Duplex Plating[3]	
2	**.198** 5.03	—	—	—	—	—	—	—	103688-1
3	**.298** 7.57	—	—	—	—	—	—	—	103688-2
4	**.398** 10.11	—	—	—	—	—	—	—	103688-3
5	**.498** 12.65	—	—	—	—	—	—	—	103688-4
6	**.598** 15.19	36	103685-5	103684-5	103903-5	103687-5	103686-5	103902-5	103688-5
7	**.698** 17.73	30	103685-6	103684-6	103903-6	103687-6	103686-6	103902-6	103688-6
8	**.798** 20.27	26	103685-7	103684-7	103903-7	103687-7	103686-7	103902-7	103688-7
9	**.898** 22.81	24	103685-8	103684-8	103903-8	103687-8	103686-8	103902-8	103688-8
10	**.998** 23.35	22	103685-9	103684-9	103903-9	103687-9	103686-9	103902-9	103688-9
11	**1.098** 27.89	20	1-103685-0	1-103684-0	1-103903-0	1-103687-0	1-103686-0	1-103902-0	1-103688-0
12	**1.198** 30.43	18	1-103685-1	1-103684-1	1-103903-1	1-103687-1	1-103686-1	1-103902-1	1-103688-1
13	**1.298** 32.97	17	1-103685-2	1-103684-2	1-103903-2	1-103687-2	1-103686-2	1-103902-2	1-103688-2
14	**1.398** 35.51	15	1-103685-3	1-103684-3	1-103903-3	1-103687-3	1-103686-3	1-103902-3	1-103688-3
15	**1.498** 38.05	14	1-103685-4	1-103684-4	1-103903-4	1-103687-4	1-103686-4	1-103902-4	1-103688-4
16	**1.598** 40.59	13	1-103685-5	1-103684-5	1-103903-5	1-103687-5	1-103686-5	1-103902-5	1-103688-5
17	**1.698** 43.13	13	1-103685-6	1-103684-6	1-103903-6	1-103687-6	1-103686-6	1-103902-6	1-103688-6
18	**1.798** 45.67	12	1-103685-7	1-103684-7	1-103903-7	1-103687-7	1-103686-7	1-103902-7	1-103688-7
19	**1.898** 48.21	11	1-103685-8	1-103684-8	1-103903-8	1-103687-8	1-103686-8	1-103902-8	1-103688-8
20	**1.998** 50.75	11	1-103685-9	1-103684-9	1-103903-9	1-103687-9	1-103686-9	1-103902-9	1-103688-9
21	**2.098** 53.29	10	2-103685-0	2-103684-0	2-103903-0	2-103687-0	2-103686-0	2-103902-0	2-103688-0
22	**2.198** 55.83	10	2-103685-1	2-103684-1	2-103903-1	2-103687-1	2-103686-1	2-103902-1	2-103688-1
23	**2.298** 58.37	9	2-103685-2	2-103684-2	2-103903-2	2-103687-2	2-103686-2	2-103902-2	2-103688-2
24	**2.398** 60.91	9	2-103685-3	2-103684-3	2-103903-3	2-103687-3	2-103686-3	2-103902-3	2-103688-3
25	**2.498** 63.45	8	2-103685-4	2-103684-4	2-103903-4	2-103687-4	2-103686-4	2-103902-4	2-103688-4

[1] .000100 [0.00254] tin-lead over .000050 [0.00127] nickel on entire contact.
[2] .000015 [0.00038] gold on mating area, .000050 [0.00127] min. tin-lead on termination area, with entire contact underplated .000050 [0.00127] nickel.
[3] .000030 [0.00076] gold on mating area, .000050 [0.00127] min. tin-lead on termination area, with entire contact underplated .000050 [0.00127] nickel.
[4] May be used with crimp type contacts, see page 3248.

Note: Use Extraction/Lance Reset Tool, Part No. 843477-1 to remove receptacle contact.

These receptacle assemblies with plain housings can be stacked end-to-end and/or side-to-side for single or double row connections to an open pin field with a .100 [2.54] centerline grid.

Receptacle Assemblies Polarized/Latching, Single Row .100 [2.54] Centers

Specifications subject to change.
For latest design specifications...
1-800-522-6752

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

Material and Finish:

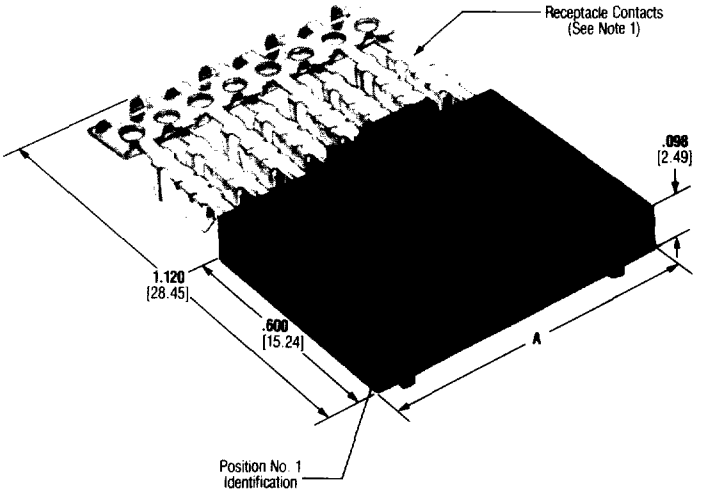
Housing—Black thermoplastic, 94V-0 rated

Contact—Copper alloy, plated tin or gold duplex

Related Product Data:

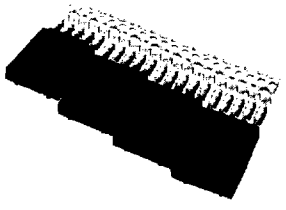
Mateable AMPMODU Products:
Pin Assemblies (Polarized/ Latching) - Pages 3236 and 3237
Pin Assemblies with Guide Ribs (installed in Panel Mount Pin Shroud) - Pages 3238, 3239 and 3241
Header Assemblies (Polarized/ Latching) - Pages 3242 thru 3245
Interchangeable Crimp Contacts - Page 3248
Application Tooling - Pages 3249 and 3250
Performance Specifications - Page 3251
Technical Documents - Page 3251

Note: Insulation displacement contacts accept an insulation diameter of .030 [0.76] min. to .054 [1.37] max. with an insulation wall thickness of .015 [0.38] max. Mating post length for preloaded housings is .200 [5.08] min., 250 [6.35] max.



Strip Form

Preassembled housings in strip form are available in positions 2 through 5.



No. of Pos.	Housing Quantities per Strip Segment	Unit Package Order Quantities	Strip Form Receptacle Assembly 30-26 AWG [0.05-0.15mm²] Wire			Strip Form Receptacle Assembly 26-22 AWG [0.12-0.3mm²] Wire		
			Tin Plating[1]	Duplex Plating[2]	Duplex Plating[3]	Tin Plating[1]	Duplex Plating[2]	Duplex Plating[3]
2	10	110	103959-1	103960-1	103961-1	103956-1	103957-1	103958-1
3	5	70	103959-2	103960-2	103961-2	103956-2	103957-2	103958-2
4	5	55	103959-3	103960-3	103961-3	103956-3	103957-3	103958-3
5	4	44	103959-4	103960-4	103961-4	103956-4	103957-4	103958-4

[1] .000100 [0.00254] tin-lead over .000050 [0.00127] nickel on entire contact.
[2] .000015 [0.00038] gold on mating area, .000050 [0.00127] min. tin-lead on termination area, with entire contact underplated .000050 [0.00127] nickel.
[3] .000030 [0.00076] gold on mating area, .000050 [0.00127] min. tin-lead on termination area, with entire contact underplated .000050 [0.00127] nickel.

Notes: 1. Receptacle assemblies are furnished with strip contacts partially inserted into housing—contacts latched into "preload" windows. Contacts are fully inserted into housings automatically when terminated with AMP application machines, or manually when terminated with AMP pistol grip hand tool.
2. Order quantity reflects number of individual housings required.
3. Keying Plugs available, see page 3248.

Specifications subject to change.
For latest design specifications...
1-800-522-6752

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

Chart contains dimensions in inches over millimeters.

Individual Assemblies

No. of Pos.	Dimension A	Unit Package Order Quantities	Individual Receptacle Assembly 30-26 AWG [0.05-0.15mm²] Wire			Individual Receptacle Assembly 26-22 AWG [0.12-0.3mm²] Wire			Unloaded[4] Housings
			Tin Plating[1]	Duplex Plating[2]	Duplex Plating[3]	Tin Plating[1]	Duplex Plating[2]	Duplex Plating[3]	
2	**.198** 5.03	—	—	—	—	—	—	—	104257-1
3	**.298** 7.57	—	—	—	—	—	—	—	104257-2
4	**.398** 10.11	—	—	—	—	—	—	—	104257-3
5	**.498** 12.65	—	—	—	—	—	—	—	104257-4
6	**.598** 15.19	36	103641-5	103640-5	103897-5	103645-5	103644-5	103734-5	104257-5
7	**.698** 17.73	30	103641-6	103640-6	103897-6	103645-6	103644-6	103734-6	104257-6
8	**.798** 20.27	26	103641-7	103640-7	103897-7	103645-7	103644-7	103734-7	104257-7
9	**.898** 22.81	24	103641-8	103640-8	103897-8	103645-8	103644-8	103734-8	104257-8
10	**.998** 23.35	22	103641-9	103640-9	103897-9	103645-9	103644-9	103734-9	104257-9
11	**1.098** 27.89	20	1-103641-0	1-103640-0	1-103897-0	1-103645-0	1-103644-0	1-103734-0	1-104257-0
12	**1.198** 30.43	18	1-103641-1	1-103640-1	1-103897-1	1-103645-1	1-103644-1	1-103734-1	1-104257-1
13	**1.298** 32.97	17	1-103641-2	1-103640-2	1-103897-2	1-103645-2	1-103644-2	1-103734-2	1-104257-2
14	**1.398** 35.51	15	1-103641-3	1-103640-3	1-103897-3	1-103645-3	1-103644-3	1-103734-3	1-104257-3
15	**1.498** 38.05	14	1-103641-4	1-103640-4	1-103897-4	1-103645-4	1-103644-4	1-103734-4	1-104257-4
16	**1.598** 40.59	13	1-103641-5	1-103640-5	1-103897-5	1-103645-5	1-103644-5	1-103734-5	1-104257-5
17	**1.698** 43.13	13	1-103641-6	1-103640-6	1-103897-6	1-103645-6	1-103644-6	1-103734-6	1-104257-6
18	**1.798** 45.67	12	1-103641-7	1-103640-7	1-103897-7	1-103645-7	1-103644-7	1-103734-7	1-104257-7
19	**1.898** 48.21	11	1-103641-8	1-103640-8	1-103897-8	1-103645-8	1-103644-8	1-103734-8	1-104257-8
20	**1.998** 50.75	11	1-103641-9	1-103640-9	1-103897-9	1-103645-9	1-103644-9	1-103734-9	1-104257-9
21	**2.098** 53.29	10	2-103641-0	2-103640-0	2-103897-0	2-103645-0	2-103644-0	2-103734-0	2-104257-0
22	**2.198** 55.83	10	2-103641-1	2-103640-1	2-103897-1	2-103645-1	2-103644-1	2-103734-1	2-104257-1
23	**2.298** 58.37	9	2-103641-2	2-103640-2	2-103897-2	2-103645-2	2-103644-2	2-103734-2	2-104257-2
24	**2.398** 60.91	9	2-103641-3	2-103640-3	2-103897-3	2-103645-3	2-103644-3	2-103734-3	2-104257-3
25	**2.498** 63.45	8	2-103641-4	2-103640-4	2-103897-4	2-103645-4	2-103644-4	2-103734-4	2-104257-4

[1] .000100 [0.00254] tin-lead over .000050 [0.00127] nickel on entire contact.
[2] .000015 [0.00038] gold on mating area, .000050 [0.00127] min. tin-lead on termination area, with entire contact underplated .000050 [0.00127] nickel.
[3] .000030 [0.00076] gold on mating area, .000050 [0.00127] min. tin-lead on termination area, with entire contact underplated .000050 [0.00127] nickel.
[4] May be used with crimp type contacts, see page 3248.

Note: Use Extraction/Lance Reset Tool, Part No. 843477-1 to remove receptacle contact.

Specifications subject to change.
For latest design specifications...
1-800-522-6752

Receptacle Assemblies with Guide Ribs, Single Row .100 [2.54] Centers

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

Material and Finish:

Housing—Black thermoplastic, 94V-0 rated

Contact—Copper alloy, plated tin or gold duplex

Related Product Data:

Coupling Shrouds used with:
Single Row - Page 3240
Double Row - Page 3240

Mateable AMPMODU Products (with Receptacle Assemblies Installed in Single Row Coupling Shrouds):
Pin Assemblies (Polarized/ Latching) - Pages 3236 and 3237
Pin Assemblies with Guide Ribs (installed in Panel Mount Pin Shroud) - Pages 3238, 3239 and 3241
Header Assemblies (Polarized/ Latching) - Pages 3242 thru 3245

Mateable AMPMODU Products (with Receptacle Assemblies Installed in Double Row Coupling Shrouds):
Header Assemblies, Shrouded, Double Row (.318 [8.08] mating post length, .150 [3.81] end dimension) - AMP Catalog 82187

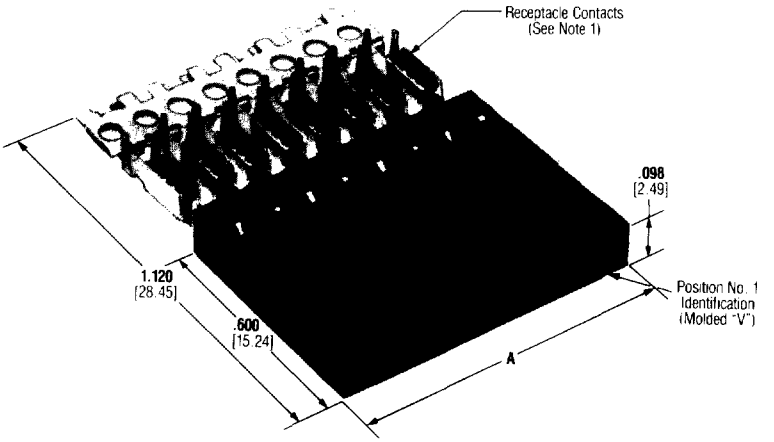
Interchangeable Crimp Contacts - Page 3248

Application Tooling - Pages 3249 and 3250

Performance Specifications - Page 3251

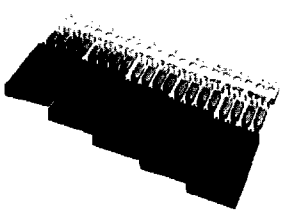
Technical Documents - Page 3251

Note: Insulation displacement contacts accept an insulation diameter of .030 [0.76] min. to .054 [1.37] max. with an insulation wall thickness of .015 [0.38] max. Mating post length for preloaded housings is .200 [5.08] min., 250 [6.35] max.



Strip Form

Preassembled housings in strip form are available in positions 2 through 5.



No. of Pos.	Housing Quantities per Strip Segment	Unit Package Order Quantities	Strip Form Receptacle Assembly 30-26 AWG [0.05-0.15mm²] Wire			Strip Form Receptacle Assembly 26-22 AWG [0.12-0.3mm²] Wire		
			Tin Plating[1]	Duplex Plating[2]	Duplex Plating[3]	Tin Plating[1]	Duplex Plating[2]	Duplex Plating[3]
2	10	110	103971-1	103972-1	103973-1	103968-1	103969-1	103970-1
3	5	70	103971-2	103972-2	103973-2	103968-2	103969-2	103970-2
4	5	55	103971-3	103972-3	103973-3	103968-3	103969-3	103970-3
5	4	44	103971-4	103972-4	103973-4	103968-4	103969-4	103970-4

[1] .000100 [0.00254] tin-lead over .000050 [0.00127] nickel on entire contact.

[2] .000015 [0.00038] gold on mating area, .000050 [0.00127] min. tin-lead on termination area, with entire contact underplated .000050 [0.00127] nickel.

[3] .000030 [0.00076] gold on mating area, .000050 [0.00127] min. tin-lead on termination area, with entire contact underplated .000050 [0.00127] nickel.

Notes: 1. Receptacle assemblies are furnished with strip contacts partially inserted into housing—contacts latched into "preload" windows. Contacts are fully inserted into housings automatically when terminated with AMP application machines, or manually when terminated with AMP pistol grip hand tool.
2. Order quantity reflects number of individual housings required.
3. Keying Plugs available, see page 3248.

Specifications subject to change.
For latest design specifications...
1-800-522-6752

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

Chart contains dimensions in inches over millimeters.

Individual Assemblies

No. of Pos.	Dimension A	Unit Package Order Quantities	Individual Receptacle Assembly 30-26 AWG [0.05-0.15mm²] Wire			Individual Receptacle Assembly 26-22 AWG [0.12-0.3mm²] Wire			Unloaded[4] Housings
			Tin Plating[1]	Duplex Plating[2]	Duplex Plating[3]	Tin Plating[1]	Duplex Plating[2]	Duplex Plating[3]	
2	**.198** 5.03	—	—	—	—	—	—	—	103648-1
3	**.298** 7.57	—	—	—	—	—	—	—	103648-2
4	**.398** 10.11	—	—	—	—	—	—	—	103648-3
5	**.498** 12.65	—	—	—	—	—	—	—	103648-4
6	**.598** 15.19	36	103650-5	103649-5	103901-5	103652-5	103651-5	103900-5	103648-5
7	**.698** 17.73	30	103650-6	103649-6	103901-6	103652-6	103651-6	103900-6	103648-6
8	**.798** 20.27	26	103650-7	103649-7	103901-7	103652-7	103651-7	103900-7	103648-7
9	**.898** 22.81	24	103650-8	103649-8	103901-8	103652-8	103651-8	103900-8	103648-8
10	**.998** 23.35	22	103650-9	103649-9	103901-9	103652-9	103651-9	103900-9	103648-9
11	**1.098** 27.89	20	1-103650-0	1-103649-0	1-103901-0	1-103652-0	1-103651-0	1-103900-0	1-103648-0
12	**1.198** 30.43	18	1-103650-1	1-103649-1	1-103901-1	1-103652-1	1-103651-1	1-103900-1	1-103648-1
13	**1.298** 32.97	17	1-103650-2	1-103649-2	1-103901-2	1-103652-2	1-103651-2	1-103900-2	1-103648-2
14	**1.398** 35.51	15	1-103650-3	1-103649-3	1-103901-3	1-103652-3	1-103651-3	1-103900-3	1-103648-3
15	**1.498** 38.05	14	1-103650-4	1-103649-4	1-103901-4	1-103652-4	1-103651-4	1-103900-4	1-103648-4
16	**1.598** 40.59	13	1-103650-5	1-103649-5	1-103901-5	1-103652-5	1-103651-5	1-103900-5	1-103648-5
17	**1.698** 43.13	13	1-103650-6	1-103649-6	1-103901-6	1-103652-6	1-103651-6	1-103900-6	1-103648-6
18	**1.798** 45.67	12	1-103650-7	1-103649-7	1-103901-7	1-103652-7	1-103651-7	1-103900-7	1-103648-7
19	**1.898** 48.21	11	1-103650-8	1-103649-8	1-103901-8	1-103652-8	1-103651-8	1-103900-8	1-103648-8
20	**1.998** 50.75	11	1-103650-9	1-103649-9	1-103901-9	1-103652-9	1-103651-9	1-103900-9	1-103648-9
21	**2.098** 53.29	10	2-103650-0	2-103649-0	2-103901-0	2-103652-0	2-103651-0	2-103900-0	2-103648-0
22	**2.198** 55.83	10	2-103650-1	2-103649-1	2-103901-1	2-103652-1	2-103651-1	2-103900-1	2-103648-1
23	**2.298** 58.37	9	2-103650-2	2-103649-2	2-103901-2	2-103652-2	2-103651-2	2-103900-2	2-103648-2
24	**2.398** 60.91	9	2-103650-3	2-103649-3	2-103901-3	2-103652-3	2-103651-3	2-103900-3	2-103648-3
25	**2.498** 63.45	8	2-103650-4	2-103649-4	2-103901-4	2-103652-4	2-103651-4	2-103900-4	2-103648-4

[1] .000100 [0.00254] tin-lead over .000050 [0.00127] nickel on entire contact.
[2] .000015 [0.00038] gold on mating area. .000050 [0.00127] min. tin-lead on termination area, with entire contact underplated .000050 [0.00127] nickel.
[3] .000030 [0.00076] gold on mating area. .000050 [0.00127] min. tin-lead on termination area, with entire contact underplated .000050 [0.00127] nickel.
[4] May be used with crimp type contacts, see page 3248.

Note: Use Extraction/Lance Reset Tool, Part No. 843477-1 to remove receptacle contact.

These receptacle assemblies with ribbed housings can be stacked end-to-end inside a single row coupling shroud to form a larger single-row latching connector, or end-to-end and/or back-to-back inside a double row coupling shroud to form a double-row latching connector.

Pin Assemblies, Shrouded Polarized/Latching, Single Row .100 [2.54] Centers

Specifications subject to change.
For latest design specifications...
1-800-522-6752

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

Material and Finish:

Housing—Black thermoplastic, 94V-0 rated

Contact—Copper alloy, plated tin or gold duplex

Related Product Data:

Mateable AMPMODU Products:

Receptacle Assemblies (Polarized/Latching) - Pages 3232 and 3233

Receptacle Assemblies with Guide Ribs (installed in Single Row Coupling Shroud) - Pages 3234 and 3235

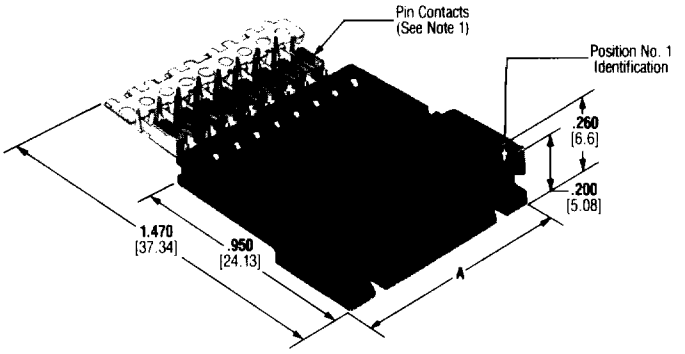
Interchangeable Crimp Contacts - Page 3248

Application Tooling - Pages 3249 and 3250

Performance Specifications - Page 3251

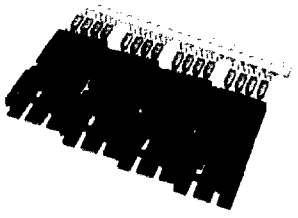
Technical Documents - Page 3251

Note: Insulation displacement Contacts accept an insulation diameter of .030 [0.76] min. to .054 [1.37] max. with an insulation wall thickness of .015 [0.38] max.



Strip Form

Preassembled housings in strip form are available in positions 2 through 5.



No. of Pos.	Housing Quantities per Strip Segment	Unit Package Order Quantities	Strip Form Pin Assembly 30-26 AWG [0.05-0.15mm²] Wire			Strip Form Pin Assembly 26-22 AWG [0.12-0.3mm²] Wire		
			Tin Plating[1]	Duplex Plating[2]	Duplex Plating[3]	Tin Plating[1]	Duplex Plating[2]	Duplex Plating[3]
2	5	70	103947-1	103948-1	103949-1	103944-1	103945-1	103946-1
3	5	55	103947-2	103948-2	103949-2	103944-2	103945-2	103946-2
4	4	44	103947-3	103948-3	103949-3	103944-3	103945-3	103946-3
5	4	36	103947-4	103948-4	103949-4	103944-4	103945-4	103946-4

[1] .000100 [0.00254] tin-lead over .000050 [0.00127] nickel on entire contact.
[2] .000015 [0.00038] gold on mating area, .000050 [0.00127] min. tin-lead on termination area, with entire contact underplated .000050 [0.00127] nickel.
[3] .000030 [0.00076] gold on mating area, .000050 [0.00127] min. tin-lead on termination area, with entire contact underplated .000050 [0.00127] nickel.

Notes: 1. Pin assemblies are furnished with strip contacts partially inserted into housing—contacts latched into "preload" windows. Contacts are fully inserted into housings automatically when terminated with AMP application machines, or manually when terminated with AMP pistol grip hand tool.
2. Order quantity reflects number of individual housings required.

Specifications subject to change.
For latest design specifications...
1-800-522-6752

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

Chart contains dimensions in inches over millimeters.

Individual Assemblies

No. of Pos.	Dimension A	Unit Package Order Quantities	Individual Pin Assembly 30-26 AWG [0.05-0.15mm²] Wire			Individual Pin Assembly 26-22 AWG [0.12-0.3mm²] Wire			Unloaded[4] Housings
			Tin Plating[1]	Duplex Plating[2]	Duplex Plating[3]	Tin Plating[1]	Duplex Plating[2]	Duplex Plating[3]	
2	.300 7.62	—	—	—	—	—	—	—	103653-1
3	.400 10.16	—	—	—	—	—	—	—	103653-2
4	.500 12.7	—	—	—	—	—	—	—	103653-3
5	.600 15.24	—	—	—	—	—	—	—	103653-4
6	.700 17.78	30	103659-5	103658-5	103894-5	103661-5	103660-5	103893-5	103653-5
7	.800 20.32	26	103659-6	103658-6	103894-6	103661-6	103660-6	103893-6	103653-6
8	.900 22.86	24	103659-7	103658-7	103894-7	103661-7	103660-7	103893-7	103653-7
9	1.000 25.4	22	103659-8	103658-8	103894-8	103661-8	103660-8	103893-8	103653-8
10	1.100 27.94	20	103659-9	103658-9	103894-9	103661-9	103660-9	103893-9	103653-9
11	1.200 30.48	18	1-103659-0	1-103658-0	1-103894-0	1-103661-0	1-103660-0	1-103893-0	1-103653-0
12	1.300 33.02	17	1-103659-1	1-103658-1	1-103894-1	1-103661-1	1-103660-1	1-103893-1	1-103653-1
13	1.400 35.56	15	1-103659-2	1-103658-2	1-103894-2	1-103661-2	1-103660-2	1-103893-2	1-103653-2
14	1.500 38.1	14	1-103659-3	1-103658-3	1-103894-3	1-103661-3	1-103660-3	1-103893-3	1-103653-3
15	1.600 40.64	13	1-103659-4	1-103658-4	1-103894-4	1-103661-4	1-103660-4	1-103893-4	1-103653-4
16	1.700 43.18	13	1-103659-5	1-103658-5	1-103894-5	1-103661-5	1-103660-5	1-103893-5	1-103653-5
17	1.800 45.72	12	1-103659-6	1-103658-6	1-103894-6	1-103661-6	1-103660-6	1-103893-6	1-103653-6
18	1.900 48.26	11	1-103659-7	1-103658-7	1-103894-7	1-103661-7	1-103660-7	1-103893-7	1-103653-7
19	2.000 50.8	11	1-103659-8	1-103658-8	1-103894-8	1-103661-8	1-103660-8	1-103893-8	1-103653-8
20	2.100 53.34	10	1-103659-9	1-103658-9	1-103894-9	1-103661-9	1-103660-9	1-103893-9	1-103653-9
21	2.200 55.88	10	2-103659-0	2-103658-0	2-103894-0	2-103661-0	2-103660-0	2-103893-0	2-103653-0
22	2.300 58.42	9	2-103659-1	2-103658-1	2-103894-1	2-103661-1	2-103660-1	2-103893-1	2-103653-1
23	2.400 60.96	9	2-103659-2	2-103658-2	2-103894-2	2-103661-2	2-103660-2	2-103893-2	2-103653-2
24	2.500 63.5	8	2-103659-3	2-103658-3	2-103894-3	2-103661-3	2-103660-3	2-103893-3	2-103653-3
25	2.600 66.04	8	2-103659-4	2-103658-4	2-103894-4	2-103661-4	2-103660-4	2-103893-4	2-103653-4

[1] .000100 [0.00254] tin-lead over .000050 [0.00127] nickel on entire contact.
[2] .000015 [0.00038] gold on mating area, .000050 [0.00127] min. tin-lead on termination area, with entire contact underplated .000050 [0.00127] nickel.
[3] .000030 [0.00076] gold on mating area, .000050 [0.00127] min. tin-lead on termination area, with entire contact underplated .000050 [0.00127] nickel.
[4] May be used with crimp type contacts, see page 3248.

Note: Use Extraction/Lance Reset Tool, Part No. 843477-1 to remove pin contact.

Specifications subject to change.
For latest design specifications...
1-800-522-6752

Pin Assemblies with Guide Ribs, Single Row .100 [2.54] Centers

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

Material and Finish:

Housing—Black thermoplastic, 94V-0 rated

Contact—Copper alloy, plated tin or gold duplex

Related Product Data:

Pin Shrouds used with:

Panel Mount, Single Row - Page 3241

Mateable AMPMODU MTE Products (with Pin Assembly Installed in Panel Mount Pin Shroud):

Receptacle Assemblies (Polarized/ Latching) - Pages 3232 and 3233

Receptacle Assemblies with Guide Ribs (installed in Single Coupling Shroud) - Pages 3234 and 3235

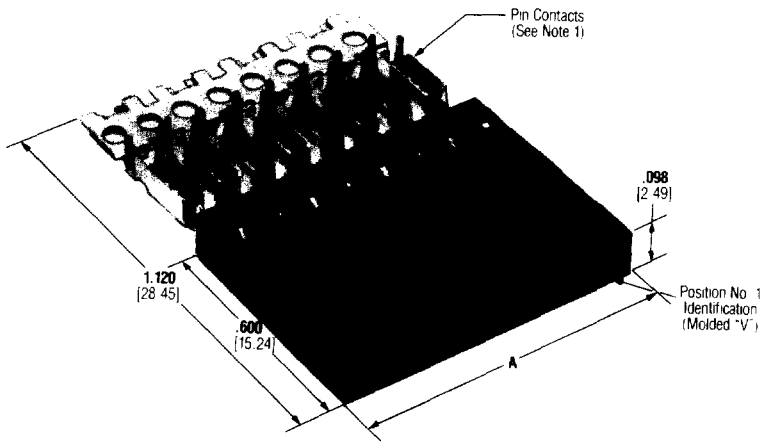
Interchangeable Crimp Contacts - Page 3248

Application Tooling - Pages 3249 and 3250

Performance Specifications - Page 3251

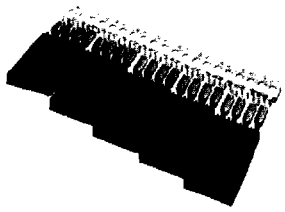
Technical Documents - Page 3251

Note: Insulation displacement contacts accept an insulation diameter of .030 [0.76] min. to .054 [1.37] max. with an insulation wall thickness of .015 [0.38] max.



Strip Form

Preassembled housings in strip form are available in positions 2 through 5.



No. of Pos.	Housing Quantities per Strip Segment	Unit Package Order Quantities	Strip Form Pin Assembly 30-26 AWG [0.05-0.15mm²] Wire			Strip Form Pin Assembly 26-22 AWG [0.12-0.3mm²] Wire		
			Tin Plating[1]	Duplex Plating[2]	Duplex Plating[3]	Tin Plating[1]	Duplex Plating[2]	Duplex Plating[3]
2	10	110	103953-1	103954-1	103955-1	103950-1	103951-1	103952-1
3	5	70	103953-2	103954-2	103955-2	103950-2	103951-2	103952-2
4	5	55	103953-3	103954-3	103955-3	103950-3	103951-3	103952-3
5	4	44	103953-4	103954-4	103955-4	103950-4	103951-4	103952-4

[1] .000100 [0.00254] tin-lead over .000050 [0.00127] nickel on entire contact.
[2] .000015 [0.00038] gold on mating area, .000050 [0.00127] min. tin-lead on termination area, with entire contact underplated .000050 [0.00127] nickel.
[3] .000030 [0.00076] gold on mating area, .000050 [0.00127] min. tin-lead on termination area, with entire contact underplated .000050 [0.00127] nickel.

Notes: 1. Pin assemblies are furnished with strip contacts partially inserted into housing—contacts latched into "preload" windows. Contacts are fully inserted into housings automatically when terminated with AMP application machines, or manually when terminated with AMP pistol grip hand tool.
2. Order quantity reflects number of individual housings required.

Specifications subject to change.
For latest design specifications...
1-800-522-6752

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

Chart contains dimensions in inches over millimeters.

Individual Assemblies

No. of Pos.	Dimension A	Unit Package Order Quantities	Individual Pin Assembly 30-26 AWG [0.05-0.15mm²] Wire			Individual Pin Assembly 26-22 AWG [0.12-0.3mm²] Wire			Unloaded[4] Housings
			Tin Plating[1]	Duplex Plating[2]	Duplex Plating[3]	Tin Plating[1]	Duplex Plating[2]	Duplex Plating[3]	
2	**.198** 5.03	—	—	—	—	—	—	—	104503-1
3	**.298** 7.57	—	—	—	—	—	—	—	104503-2
4	**.398** 10.11	—	—	—	—	—	—	—	104503-3
5	**.498** 12.65	—	—	—	—	—	—	—	104503-4
6	**.598** 15.19	36	103656-5	103657-5	103896-5	103654-5	103655-5	103895-5	104503-5
7	**.698** 17.73	30	103656-6	103657-6	103896-6	103654-6	103655-6	103895-6	104503-6
8	**.798** 20.27	26	103656-7	103657-7	103896-7	103654-7	103655-7	103895-7	104503-7
9	**.898** 22.81	24	103656-8	103657-8	103896-8	103654-8	103655-8	103895-8	104503-8
10	**.998** 23.35	22	103656-9	103657-9	103896-9	103654-9	103655-9	103895-9	104503-9
11	**1.098** 27.89	20	1-103656-0	1-103657-0	1-103896-0	1-103654-0	1-103655-0	1-103895-0	1-104503-0
12	**1.198** 30.43	18	1-103656-1	1-103657-1	1-103896-1	1-103654-1	1-103655-1	1-103895-1	1-104503-1
13	**1.298** 32.97	17	1-103656-2	1-103657-2	1-103896-2	1-103654-2	1-103655-2	1-103895-2	1-104503-2
14	**1.398** 35.51	15	1-103656-3	1-103657-3	1-103896-3	1-103654-3	1-103655-3	1-103895-3	1-104503-3
15	**1.498** 38.05	14	1-103656-4	1-103657-4	1-103896-4	1-103654-4	1-103655-4	1-103895-4	1-104503-4
16	**1.598** 40.59	13	1-103656-5	1-103657-5	1-103896-5	1-103654-5	1-103655-5	1-103895-5	1-104503-5
17	**1.698** 43.13	13	1-103656-6	1-103657-6	1-103896-6	1-103654-6	1-103655-6	1-103895-6	1-104503-6
18	**1.798** 45.67	12	1-103656-7	1-103657-7	1-103896-7	1-103654-7	1-103655-7	1-103895-7	1-104503-7
19	**1.898** 48.21	11	1-103656-8	1-103657-8	1-103896-8	1-103654-8	1-103655-8	1-103895-8	1-104503-8
20	**1.998** 50.75	11	1-103656-9	1-103657-9	1-103896-9	1-103654-9	1-103655-9	1-103895-9	1-104503-9
21	**2.098** 53.29	10	2-103656-0	2-103657-0	2-103896-0	2-103654-0	2-103655-0	2-103895-0	2-104503-0
22	**2.198** 55.83	10	2-103656-1	2-103657-1	2-103896-1	2-103654-1	2-103655-1	2-103895-1	2-104503-1
23	**2.298** 58.37	9	2-103656-2	2-103657-2	2-103896-2	2-103654-2	2-103655-2	2-103895-2	2-104503-2
24	**2.398** 60.91	9	2-103656-3	2-103657-3	2-103896-3	2-103654-3	2-103655-3	2-103895-3	2-104503-3
25	**2.498** 63.45	8	2-103656-4	2-103657-4	2-103896-4	2-103654-4	2-103655-4	2-103895-4	2-104503-4

[1] .000100 [0.00254] tin-lead over .000050 [0.00127] nickel on entire contact.
[2] .000015 [0.00038] gold on mating area, .000050 [0.00127] min. tin-lead on termination area, with entire contact underplated .000050 [0.00127] nickel.
[3] .000030 [0.00076] gold on mating area, .000050 [0.00127] min. tin-lead on termination area, with entire contact underplated .000050 [0.00127] nickel.
[4] May be used with crimp type contacts, see page 3248.

Note: Use Extraction/Lance Reset Tool. Part No. 843477-1 to remove pin contact.

These pin assemblies with ribbed housings can be stacked end-to-end inside a panel mount pin shroud to form a larger single row latching connector for panel mounting.

Coupling Shrouds for Receptacle Assemblies with Guide Ribs

Specifications subject to change.
For latest design specifications...
1-800-522-6752

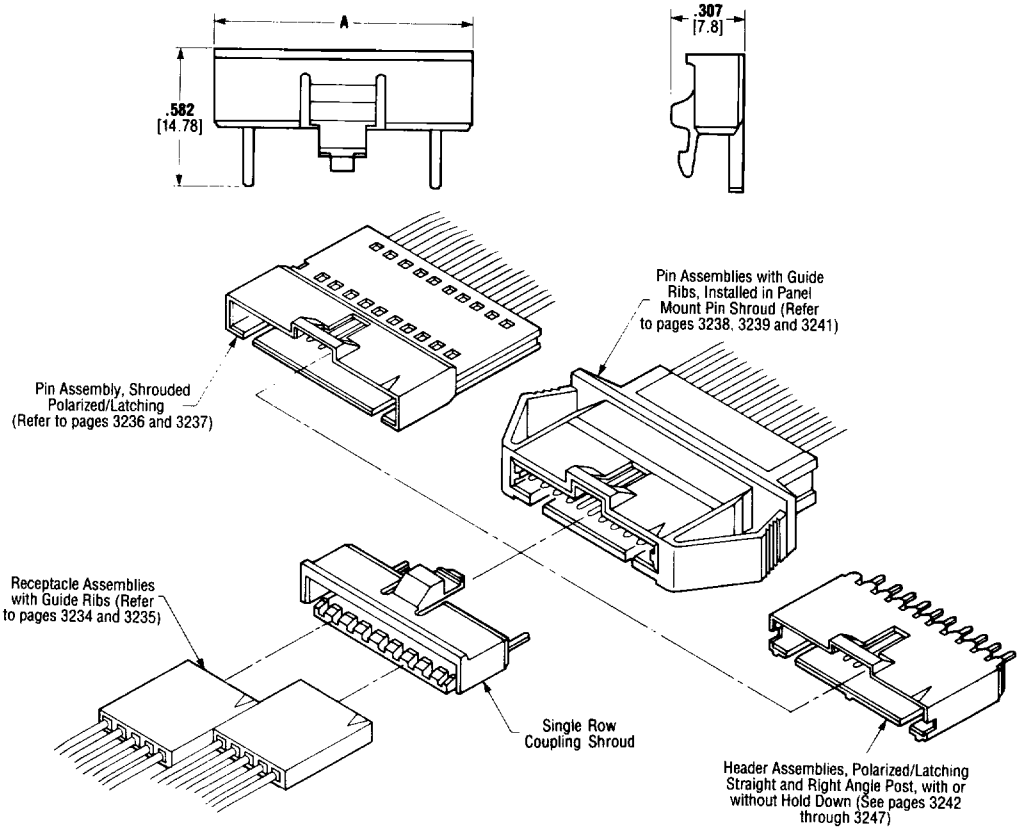
Dimensioning:
Dimensions are in inches and millimeters. Values in brackets are metric equivalents.

Chart contains dimensions in inches and millimeters.

Material:
Black thermoplastic, 94V-0 rated

No. of Pos.	Dimension A		Single Row Coupling Shroud
	Inch	mm	
4	.485	12.32	103680-1
5	.585	14.86	103680-2
6	.685	17.4	103680-3
7	.785	19.94	103680-4
8	.885	22.48	103680-5
9	.985	25.02	103680-6
10	1.085	27.56	103680-7
11	1.185	30.1	103680-8
12	1.285	32.64	103680-9
13	1.385	35.18	1-103680-0
14	1.485	37.72	1-103680-1
15	1.585	40.26	1-103680-2
16	1.685	42.8	1-103680-3
17	1.785	45.34	1-103680-4
18	1.885	47.88	1-103680-5
19	1.985	50.42	1-103680-6
20	2.085	52.96	1-103680-7
21	2.185	55.5	1-103680-8
22	2.285	58.04	1-103680-9
23	2.385	60.58	2-103680-0
24	2.485	63.12	2-103680-1
25	2.585	65.66	2-103680-2

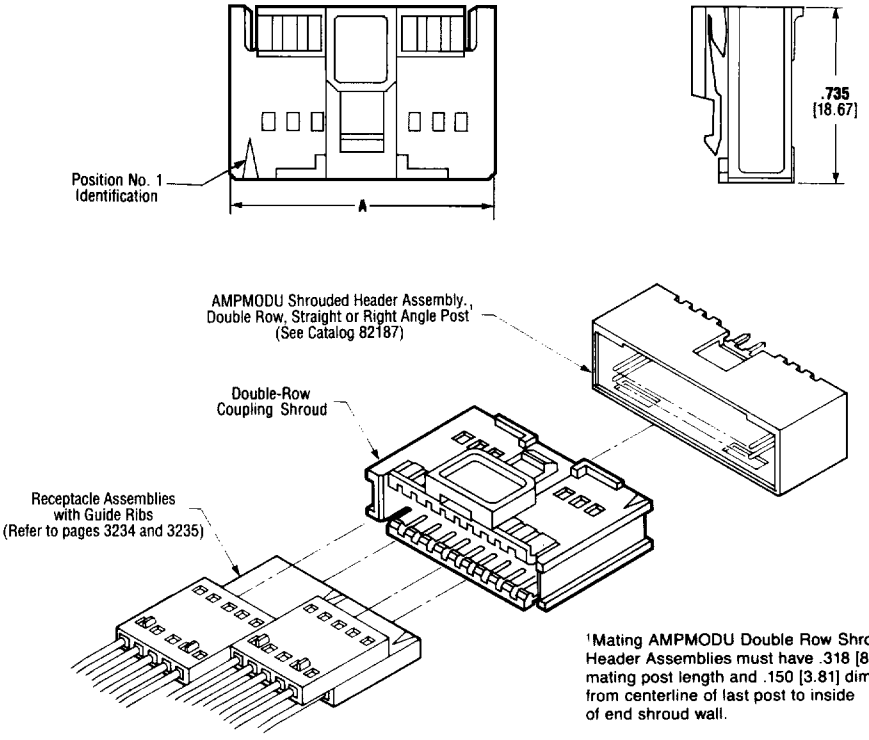
Single Row



Typical Application of Single Row Coupling Shroud and Mating AMPMODU MTE Products

No. of Pos.	Dimension A		Double Row Coupling Shroud
	Inch	mm	
8	.585	14.86	103681-1
10	.685	17.4	103681-2
12	.785	19.94	103681-3
14	.885	22.48	103681-4
16	.985	25.02	103681-5
18	1.085	27.56	104500-1
20	1.185	30.1	104500-2
22	1.285	32.64	104500-3
24	1.385	35.18	104500-4
26	1.485	37.72	104500-5
28	1.585	40.26	104500-6
30	1.685	42.8	104500-7
32	1.785	45.34	104500-8
34	1.885	47.88	104500-9
40	2.185	55.5	1-104500-0
50	2.685	68.2	1-104500-1

Double Row



[1]Mating AMPMODU Double Row Shrouded Header Assemblies must have .318 [8.08] mating post length and .150 [3.81] dimension from centerline of last post to inside of end shroud wall.

Typical Application of Double Row Coupling Shroud and Mating AMPMODU Products

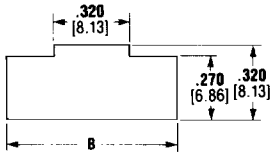
Panel Mount Pin Shrouds for Pin Assemblies with Guide Ribs, Single Row

Specifications subject to change.
For latest design specifications...
1-800-522-6752

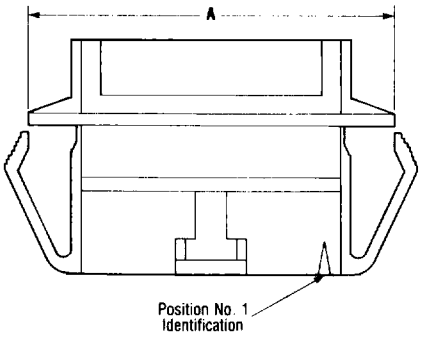
Dimensioning:
Dimensions are in inches and millimeters.
Values in brackets are metric equivalents.

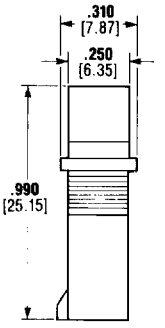
Chart contains dimensions in inches and millimeters.

Material:
Black thermoplastic, 94V-0 Rated



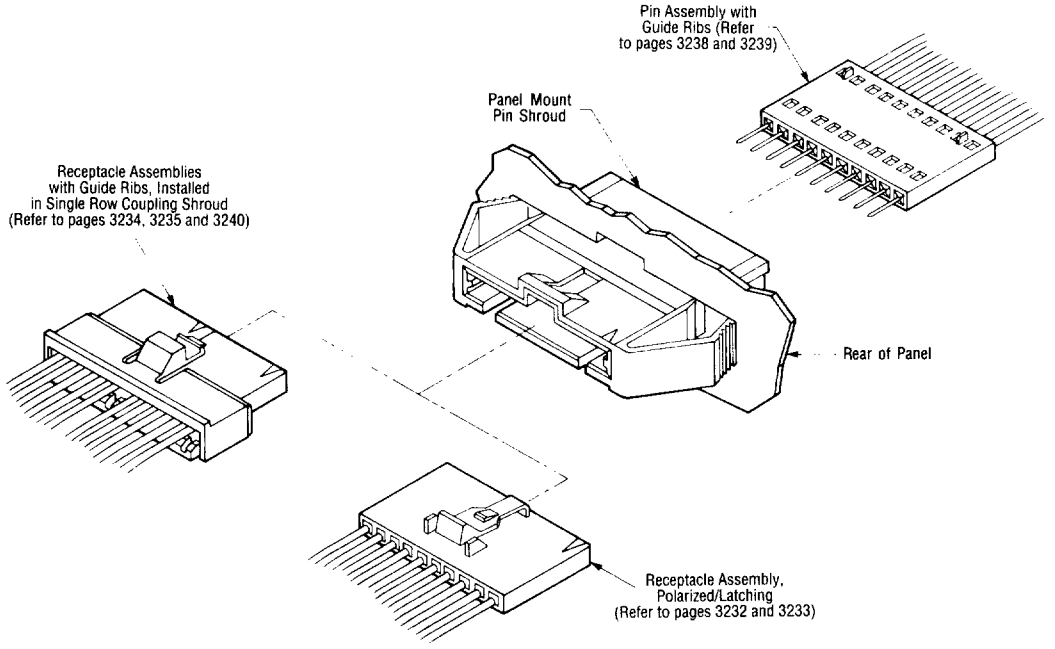
Recommended Panel Cutout
(.030 to .125 [0.76 to 3.18] thick)





No. of Pos.	Dimensions A Inch	A mm	B Inch	B mm	Panel Mount Pin Shroud
2	.735	18.67	.625	15.88	103682-1
3	.835	21.21	.725	18.42	103682-2
4	.935	23.75	.825	20.96	103682-3
5	1.035	26.29	.925	23.5	103682-4
6	1.135	28.83	1.025	26.04	103682-5
7	1.235	31.37	1.125	28.58	103682-6
8	1.335	33.91	1.225	31.12	103682-7
9	1.435	36.45	1.325	33.66	103682-8
10	1.535	38.99	1.425	36.2	103682-9
11	1.635	41.53	1.525	38.74	1-103682-0
12	1.735	44.07	1.625	41.28	1-103682-1
13	1.835	46.61	1.725	43.82	1-103682-2

No. of Pos.	Dimensions A Inch	A mm	B Inch	B mm	Panel Mount Pin Shroud
14	1.935	49.15	1.825	46.36	1-103682-3
15	2.035	51.69	1.925	48.9	1-103682-4
16	2.135	54.23	2.025	51.44	1-103682-5
17	2.235	56.77	2.125	53.98	1-103682-6
18	2.335	59.31	2.225	56.52	1-103682-7
19	2.435	61.85	2.325	59.06	1-103682-8
20	2.535	64.39	2.425	61.6	1-103682-9
21	2.635	66.93	2.525	64.14	2-103682-0
22	2.735	69.47	2.625	66.68	2-103682-1
23	2.835	72.01	2.725	69.22	2-103682-2
24	2.935	74.55	2.825	71.76	2-103682-3
25	3.035	77.09	2.925	74.3	2-103682-4



Typical Application of Panel Mount Pin Shroud and Mating AMPMODU Products

Header Assemblies, Shrouded Polarized/Latching, Single Row .100 [2.54] Centers

Specifications subject to change.
For latest design specifications...
1-800-522-6752

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

.025 [0.64] Square Straight Post (With or Without Hold Down)

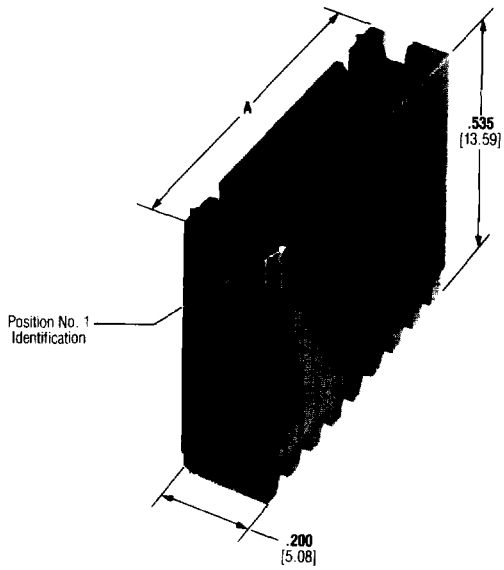
Materials and Finish:

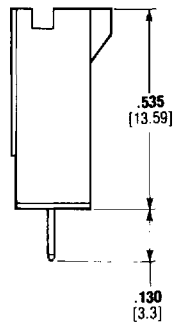
Housing—Black thermoplastic, 94V-0 rated

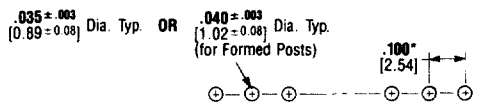
Contacts—Copper alloy, plated tin or gold duplex

Related Product Data:

Mateable AMPMODU MTE Products:
Receptacle Assemblies (Polarized/Latching) - pages 3232 and 3233
Receptacle Assemblies with Guide Ribs (installed in Single Row Coupling Shroud) - pages 3234, 3235 and 3240
Technical Documents - page 3251







Recommended Pc Board Hole Layout

*Post centerline tolerance is ±.003 [± 0.08]; tolerances not to accumulate within one connector pattern.
Note: Formed posts in "Hold Down" versions only. Formed posts are provided in a minimum of two locations per header assembly.

Specifications subject to change.
For latest design specifications...
1-800-522-6752

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

Chart contains dimensions in inches over millimeters.

No. of Pos.	Dimension A	Unit Package Order Quantities	Header Assembly With Hold Down			Header Assembly Without Hold Down		
			Tin Plating[1]	Duplex Plating[2]	Duplex Plating[3]	Tin Plating[1]	Duplex Plating[2]	Duplex Plating[3]
2	.300 7.62	284	103669-1	103670-1	103908-1	103639-1	103638-1	103735-1
3	.400 10.16	212	103669-2	103670-2	103908-2	103639-2	103638-2	103735-2
4	.500 12.7	172	103669-3	103670-3	103908-3	103639-3	103638-3	103735-3
5	.600 15.24	140	103669-4	103670-4	103908-4	103639-4	103638-4	103735-4
6	.700 17.78	120	103669-5	103670-5	103908-5	103639-5	103638-5	103735-5
7	.800 20.32	104	103669-6	103670-6	103908-6	103639-6	103638-6	103735-6
8	.900 22.86	92	103669-7	103670-7	103908-7	103639-7	103638-7	103735-7
9	1.000 25.4	84	103669-8	103670-8	103908-8	103639-8	103638-8	103735-8
10	1.100 27.94	76	103669-9	103670-9	103908-9	103639-9	103638-9	103735-9
11	1.200 30.48	68	1-103669-0	1-103670-0	1-103908-0	1-103639-0	1-103638-0	1-103735-0
12	1.300 33.02	64	1-103669-1	1-103670-1	1-103908-1	1-103639-1	1-103638-1	1-103735-1
13	1.400 35.56	60	1-103669-2	1-103670-2	1-103908-2	1-103639-2	1-103638-2	1-103735-2
14	1.500 38.1	56	1-103669-3	1-103670-3	1-103908-3	1-103639-3	1-103638-3	1-103735-3
15	1.600 40.64	52	1-103669-4	1-103670-4	1-103908-4	1-103639-4	1-103638-4	1-103735-4
16	1.700 43.18	48	1-103669-5	1-103670-5	1-103908-5	1-103639-5	1-103638-5	1-103735-5
17	1.800 45.72	44	1-103669-6	1-103670-6	1-103908-6	1-103639-6	1-103638-6	1-103735-6
18	1.900 48.26	44	1-103669-7	1-103670-7	1-103908-7	1-103639-7	1-103638-7	1-103735-7
19	2.000 50.8	40	1-103669-8	1-103670-8	1-103908-8	1-103639-8	1-103638-8	1-103735-8
20	2.100 53.34	40	1-103669-9	1-103670-9	1-103908-9	1-103639-9	1-103638-9	1-103735-9
21	2.200 55.88	36	2-103669-0	2-103670-0	2-103908-0	2-103639-0	2-103638-0	2-103735-0
22	2.300 58.42	36	2-103669-1	2-103670-1	2-103908-1	2-103639-1	2-103638-1	2-103735-1
23	2.400 60.96	32	2-103669-2	2-103670-2	2-103908-2	2-103639-2	2-103638-2	2-103735-2
24	2.500 63.5	32	2-103669-3	2-103670-3	2-103908-3	2-103639-3	2-103638-3	2-103735-3
25	2.600 66.04	32	2-103669-4	2-103670-4	2-103908-4	2-103639-4	2-103638-4	2-103735-4

[1] .000100 [0.00254] tin-lead over .000050 [0.00127] nickel on entire contact.
[2] .000015 [0.00038] gold on mating area, .000050 [0.00127] min. tin-lead on termination area, with entire contact underplated .000050 [0.00127] nickel.
[3] .000030 [0.00076] gold on mating area, .000050 [0.00127] min. tin-lead on termination area, with entire contact underplated .000050 [0.00127] nickel.

Note: Use Keying Tool No. 91417-1 to remove post for keying.

Header Assemblies, Shrouded Polarized/Latching, Single Row .100 [2.54] Centers
(Continued)

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

.025 [0.64] Square Right Angle Post

Material and Finish:

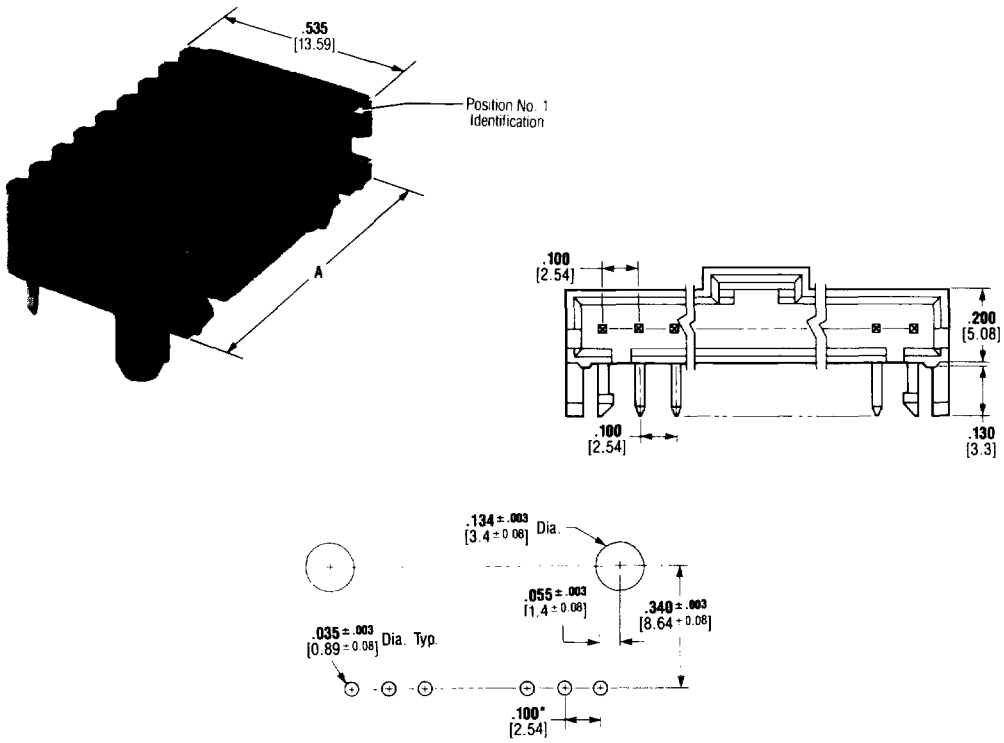
Housing—Black thermoplastic, 94V-0 rated

Contacts—Copper alloy, plated tin or gold duplex

Related Product Data:

Mateable AMPMODU MTE Products:
Receptacle Assemblies (Polarized/Latching) - pages 3232 and 3233
Receptacle Assemblies with Guide Ribs (installed in Single Row Coupling Shroud) - pages 3234, 3235 and 3240
Technical Documents - page 3251

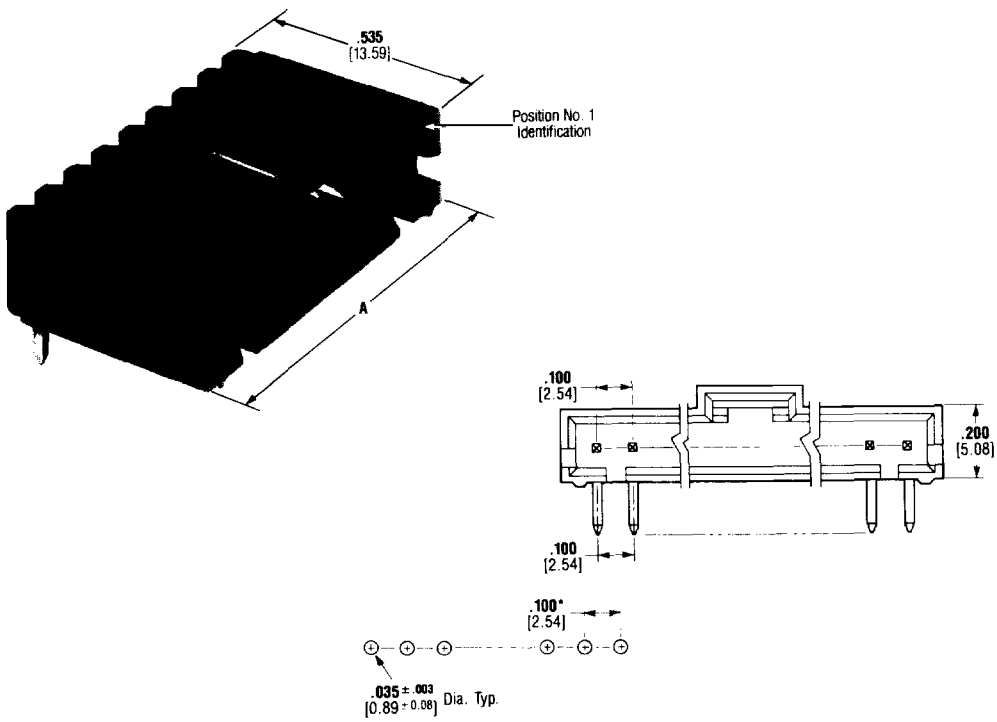
With Hold Down



Recommended Pc Board Hole Layout
Pc board thickness (for Hold Down Feature) is .062 ± .008 [1.57 ± 0.2]

*Post centerline tolerance is ± .003 [± 0.08]; tolerance not to accumulate within one connector pattern.

Without Hold Down



Recommended Pc Board Hole Layout

*Post centerline tolerance is ± .003 [± 0.08]; tolerance not to accumulate within one connector pattern.

Specifications subject to change.
For latest design specifications...
1-800-522-6752

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

Chart contains dimensions in inches over millimeters.

Individual Assemblies

No. of Pos.	Dimension A	Unit Package Order Quantities	Header Assembly With Hold Down			Header Assembly Without Hold Down		
			Tin Plating[1]	Duplex Plating[2]	Duplex Plating[3]	Tin Plating[1]	Duplex Plating[2]	Duplex Plating[3]
2	.300 7.62	284	103672-1	103673-1	103904-1	103634-1	103635-1	103906-1
3	.400 10.16	212	103672-2	103673-2	103904-2	103634-2	103635-2	103906-2
4	.500 12.7	172	103672-3	103673-3	103904-3	103634-3	103635-3	103906-3
5	.600 15.24	140	103672-4	103673-4	103904-4	103634-4	103635-4	103906-4
6	.700 17.78	120	103672-5	103673-5	103904-5	103634-5	103635-5	103906-5
7	.800 20.32	104	103672-6	103673-6	103904-6	103634-6	103635-6	103906-6
8	.900 22.86	92	103672-7	103673-7	103904-7	103634-7	103635-7	103906-7
9	1.000 25.4	84	103672-8	103673-8	103904-8	103634-8	103635-8	103906-8
10	1.100 27.94	76	103672-9	103673-9	103904-9	103634-9	103635-9	103906-9
11	1.200 30.48	68	1-103672-0	1-103673-0	1-103904-0	1-103634-0	1-103635-0	1-103906-0
12	1.300 33.02	64	1-103672-1	1-103673-1	1-103904-1	1-103634-1	1-103635-1	1-103906-1
13	1.400 35.56	60	1-103672-2	1-103673-2	1-103904-2	1-103634-2	1-103635-2	1-103906-2
14	1.500 38.1	56	1-103672-3	1-103673-3	1-103904-3	1-103634-3	1-103635-3	1-103906-3
15	1.600 40.64	52	1-103672-4	1-103673-4	1-103904-4	1-103634-4	1-103635-4	1-103906-4
16	1.700 43.18	48	1-103672-5	1-103673-5	1-103904-5	1-103634-5	1-103635-5	1-103906-5
17	1.800 45.72	44	1-103672-6	1-103673-6	1-103904-6	1-103634-6	1-103635-6	1-103906-6
18	1.900 48.26	44	1-103672-7	1-103673-7	1-103904-7	1-103634-7	1-103635-7	1-103906-7
19	2.000 50.8	40	1-103672-8	1-103673-8	1-103904-8	1-103634-8	1-103635-8	1-103906-8
20	2.100 53.34	40	1-103672-9	1-103673-9	1-103904-9	1-103634-9	1-103635-9	1-103906-9
21	2.200 55.88	36	2-103672-0	2-103673-0	2-103904-0	2-103634-0	2-103635-0	2-103906-0
22	2.300 58.42	36	2-103672-1	2-103673-1	2-103904-1	2-103634-1	2-103635-1	2-103906-1
23	2.400 60.96	32	2-103672-2	2-103673-2	2-103904-2	2-103634-2	2-103635-2	2-103906-2
24	2.500 63.5	32	2-103672-3	2-103673-3	2-103904-3	2-103634-3	2-103635-3	2-103906-3
25	2.600 66.04	32	2-103672-4	2-103673-4	2-103904-4	2-103634-4	2-103635-4	2-103906-4

[1] .000100 [0.00254] tin-lead over .000050 [0.00127] nickel on entire contact.
[2] .000015 [0.00038] gold on mating area, .000050 [0.00127] min. tin-lead on termination area, with entire contact underplated .000050 [0.00127] nickel.
[3] .000030 [0.00076] gold on mating area, .000050 [0.00127] min. tin-lead on termination area, with entire contact underplated .000050 [0.00127] nickel.

Note: Use Keying Tool No. 91417-1 to remove post for keying.

Header Assemblies, Shrouded High-Temp, Polarized/Latching (Thru-Hole, SMT Compatible) Single Row, .100 [2.54] Centers

Specifications subject to change.
For latest design specifications...
1-800-522-6752

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

Materials and Finish:

Housing—Black thermoplastic, 94V-0 rated

Contacts—Copper alloy, plated .000015 [0.00038] gold in mating area, .000100 [0.00254] min. matte tin-lead on the solder tail, all over .000050 [0.00127] nickel

Related Product Data:

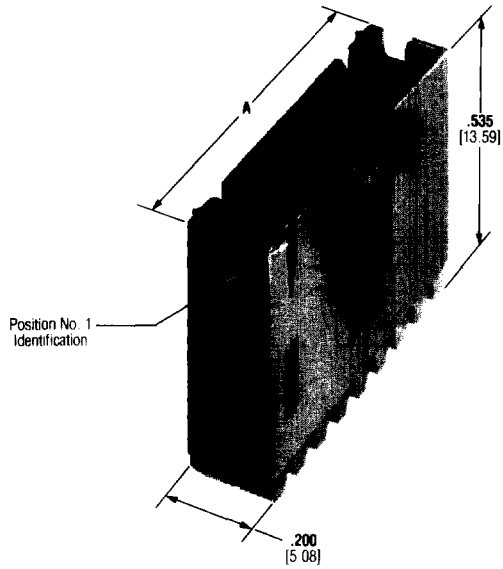
Mateable AMPMODU MTE Products:

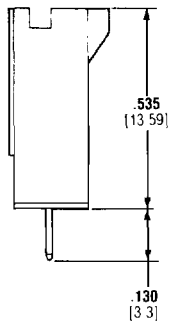
Receptacle Assemblies (Polarized/Latching) - pages 3232 and 3233

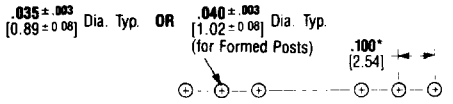
Receptacle Assemblies with Guide Ribs (installed in Single Row Coupling Shroud) - pages 3234, 3235, and 3240

Technical Documents - page 3251

.025 [0.64] Square Straight Post (With or Without Hold Down)





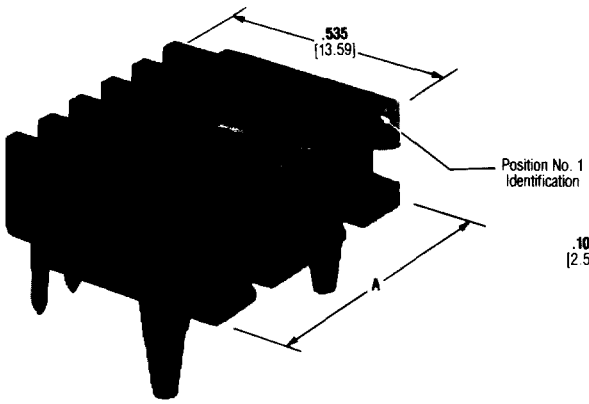


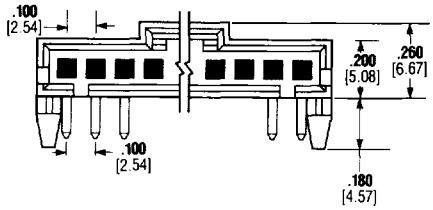
Recommended Pc Board Hole Layout

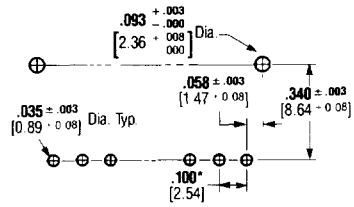
*Post centerline tolerance is ±.003 [±0.08]; tolerance not to accumulate within one connector pattern.

Note: Formed posts in "Hold Down" versions only. Formed posts are provided in a minimum of two locations per header assembly.

.025 [0.64] Square Right Angle Post (With Hold Down)







Recommended Pc Board Hole Layout

Pc board thickness (for Hold Down Feature) is .062 ± .008 [1.57 ± 0.2]

*Post centerline tolerance is ±.003 [±0.08]; tolerance is not to accumulate within one connector pattern.

Specifications subject to change.
For latest design specifications...
1-800-522-6752

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

Chart contains dimensions in inches over millimeters.

No. of Pos.	Dimension A	Package Order Quantities	Straight Header Assembly		Right Angle Header Assembly With Hold Down
			With Hold Down	Without Hold Down	
2	.300 7.62	284	104362-1	104363-1	104361-1
3	.400 10.16	212	104362-2	104363-2	104361-2
4	.500 12.7	172	104362-3	104363-3	104361-3
5	.600 15.24	140	104362-4	104363-4	104361-4
6	.700 17.78	120	104362-5	104363-5	104361-5
7	.800 20.32	104	104362-6	104363-6	104361-6
8	.900 22.86	92	104362-7	104363-7	104361-7
9	1.000 25.4	84	104362-8	104363-8	104361-8
10	1.100 27.94	76	104362-9	104363-9	104361-9
11	1.200 30.48	68	1-104362-0	1-104363-0	1-104361-0
12	1.300 33.02	64	1-104362-1	1-104363-1	1-104361-1
13	1.400 35.56	60	1-104362-2	1-104363-2	1-104361-2
14	1.500 38.1	56	1-104362-3	1-104363-3	1-104361-3
15	1.600 40.64	52	1-104362-4	1-104363-4	1-104361-4
16	1.700 43.18	48	1-104362-5	1-104363-5	1-104361-5
17	1.800 45.72	44	1-104362-6	1-104363-6	1-104361-6
18	1.900 48.26	44	1-104362-7	1-104363-7	1-104361-7
19	2.000 50.8	40	1-104362-8	1-104363-8	1-104361-8
20	2.100 53.34	40	1-104362-9	1-104363-9	1-104361-9
21	2.200 55.88	36	2-104362-0	2-104363-0	2-104361-0
22	2.300 58.42	36	2-104362-1	2-104363-1	2-104361-1
23	2.400 60.96	32	2-104362-2	2-104363-2	2-104361-2
24	2.500 63.5	32	2-104362-3	2-104363-3	2-104361-3
25	2.600 66.04	32	2-104362-4	2-104363-4	2-104361-4

Note: Use Keying Tool No. 91417-1 to remove post for keying.

Interchangeable Contacts
Wire Crimp (Snap-In)

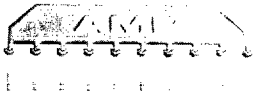
Specifications subject to change.
For latest design specifications...
1-800-522-6752

Dimensioning:
Dimensions are in inches and millimeters. Values in brackets are metric equivalents.
Charts contain dimensions in inches over millimeters.

Material and Finish:
Copper alloy, plated tin or gold duplex (See chart)

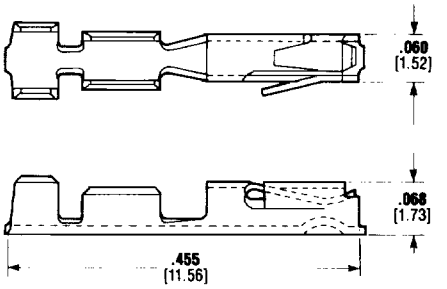
These wire crimp contacts can be intermixed with insulation.

Keying Plug
Part No. 104072-1



Ten plugs are supplied per strip. Order quantity reflects the number of strips required.

Receptacles*

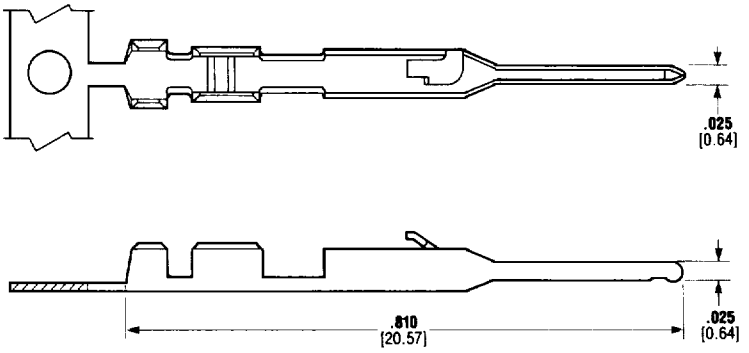


*Tandem Spring Product Family, Catalog 82055

Wire Size Range AWG	Wire Size Range [mm²]	Ins. Dia. Range	Contact Finish	Contact Part No. (Standard Pressure) Strip Form	Contact Part No. (Standard Pressure) Loose Piece	Quick-Change Applicator No. for AMP-O-LECTRIC Machine	Applicator No. for AMP-O-MATIC Stripper/Crimper Machine	Hand Tool
32-28	0.03-0.08	.025-.054 0.64-1.37	Duplex[1]	103358-3	103358-4	466723-1	466952-1	58342-2
			Duplex[2]	103358-5	103358-6	466723-1	466952-1	58342-2
			Tin[3]	103358-7	103358-8	466723-1	466952-1	58342-2
26-22	0.14-0.32	.036-.054 0.91-1.37	Duplex[1]	530151-5	530151-6	466819-2	466943-1	58342-1
			Duplex[2]	530151-7	530151-8	466819-2	466943-1	58342-1
			Tin[3]	530151-9	1-530151-0	466819-2	466943-1	58342-1

[1] .000015 [0.00038] gold alloy inlay over nickel mating area, tin-lead on termination area.
[2] .000030 [0.00076] gold alloy inlay over nickel mating area, tin-lead on termination area.
[3] .000100 [0.00254] min. tin-lead over .000030 [0.00076] nickel on entire contact.

Pins



Wire Size Range AWG	Wire Size Range [mm²]	Ins. Dia. Range	Contact Finish	Contact Part No. (Standard Pressure) Strip Form	Contact Part No. (Standard Pressure) Loose Piece	Quick-Change Applicator No. for AMP-O-LECTRIC Machine	Hand Tool
32-28	0.03-0.08	.025-.054 0.64-1.37	Duplex[1]	104506-4	104506-5	567240-1	58342-2
			Duplex[2]	104506-6	104506-7	567240-1	58342-2
			Tin[3]	104506-2	104506-3	567240-1	58342-2
26-22	0.14-0.32	.036-.054 0.91-1.37	Duplex[1]	104505-4	104505-5	567239-2	58342-1
			Duplex[2]	104505-6	104505-7	567239-2	58342-1
			Tin[3]	104505-2	104505-3	567239-2	58342-1

[1] .000015 [0.00038] gold alloy inlay over nickel mating area, tin-lead on termination area.
[2] .000030 [0.00076] gold alloy inlay over nickel mating area, tin-lead on termination area.
[3] .000100 [0.00254] min. tin-lead over .000030 [0.00076] nickel on entire contact.

Application Tooling for Interchangeable Contacts Wire Crimp (Snap-In)

Specifications subject to change.
For latest design specifications...
1-800-522-6752

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

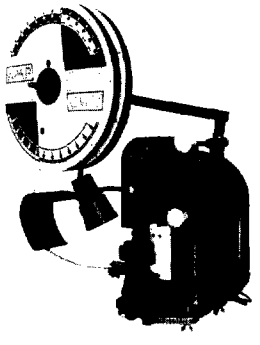
AMP hand tools are ideal for small production prototype and experimental applications. They are used for terminating precision formed contacts to wire and feature the CERTI-CRIMP ratchet device to assure perfectly formed crimps, time after time.

AMP Crimp Snap-In Receptacle and Pin Hand Tool, Nos. 58342-2 and 58342-1

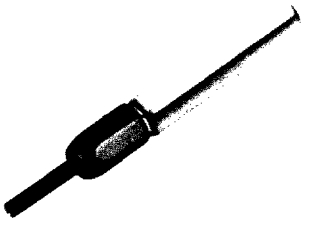
Extraction/Lance Reset Tool No. 843477-1

AMP-O-LECTRIC Terminating Machine

This bench mounted machine is electrically operated from any standard factory outlet and is actuated by a foot pedal. It is designed to install a wide range of AMP terminals on a wider range of wire sizes.



This keying tool is used to remove posts from a header assembly, either before or after the header assembly is mounted to a pc board. The removal of posts is necessary when keying plugs are used in mating AMPMODU connectors.

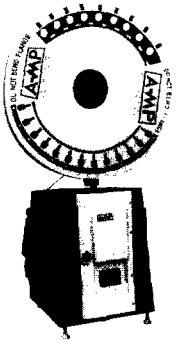


Keying Tool No. 91417-1

AMP-O-MATIC Stripper/ Crimper Machine

This pneumatically operated bench-top machine is capable of stripping wires and crimping side-feed terminals.

Interchangeable applicators used in this machine are similar to the quick-change type applicator. They feature wire and insulation crimp adjustment on the top of the applicator ram.

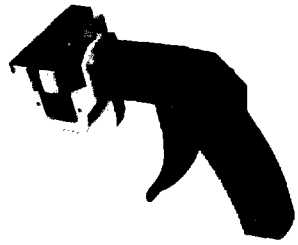


Specifications subject to change.
For latest design specifications...
1-800-522-6752

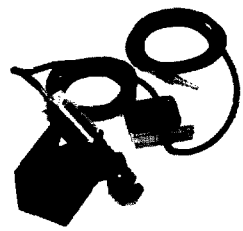
Dimensioning:
Dimensions are in inches and millimeters. Values in brackets are metric equivalents.
Charts contain dimensions in inches over millimeters.

Application Tooling for AMPMODU MTE Pin and Receptacle Connectors with Insulation Displacement Contacts

This family of application tooling is used to terminate the insulation displacement contacts in AMPMODU MTE connectors presented on pages 3230 through 3239. For optimum productivity, cable making equipment (not shown) can be made available, consult AMP Incorporated.



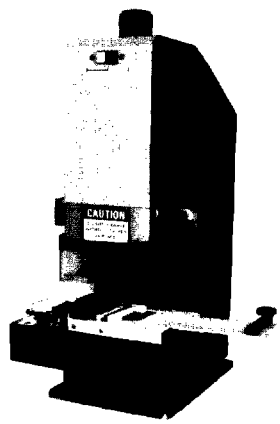
Manual Pistol Grip Tool; Handle Assembly No. 58074-1 with Modular Head No. 58336-1



Bench Mount Power Assembly No. 58338-1 with Modular Head Assembly No. 58336-1

The AMP hand tool features a fully interchangeable modular terminating head used with either a manual pistol style tool or a bench mount power assembly. The heads terminate one unstripped wire per cycle and index the connector to the next terminating position. The head rotates to permit optimum access to the wiring area.

The bench mounted power assembly is air actuated with either a foot or knee switch. This capability frees the operator's hands for optimum positioning permitting termination of 1000 wires per hour typically.



Mass Termination Bench Machine No. 820750-1
(for Discrete Wire)
.100 Centerline Ribbon Cable Adapter Kit Part No. 527273-1

This bench machine is designed to simultaneously terminate all contacts partially inserted in an AMPMODU MTE connector housing. It uses a slide applicator which is automatically positioned under the terminating head. Carrier strip shearing and contact insertion are accomplished during the termination cycle. As many as 120 cycles per hour can be terminated with this AMP machine. The basic machine is suitable for terminating discrete wire, with optional adapter kits available for terminating ribbon and jacketed cable.

For **tooling information**, call Customer Assistance Hotline **1-800-722-1111.**

Performance Specifications

Electrical Characteristics

Contact Current Rating: 3 amperes for single contact in free air (Amperage could vary due to ambient temperature, wire size and duty cycles.)
Contact Termination Resistance: 15 milliohms (max.)
Dielectric Withstanding Voltage:
At Sea Level—600 VAC, rms
At 70,000 Ft. [21 336 m]—225 VAC, rms
Insulation Resistance: 5,000 megohms (min.)

Environmental Characteristics

Operating Temperature: -65°C to +105°C
Vibration: 15 G's
Physical Shock: 50 G's
Industrial Mixed Flow Gasing: Class 1 (20 days)

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.

108-25034 AMPMODU MTE 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.

114-25026 AMPMODU MTE Interconnection system

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

IS 6919 AMPMODU MTE Connectors

Instructional material covering operation, setup, maintenance, repair, etc. is included with each machine, tool or die set. If this material is required prior to receiving your tooling, call the AMP Customer Service hotline 1-800-722-1111 for the applicable document.