

MTA-100 Narrow Flat Headers — Straight and Right Angle

Material and Finish

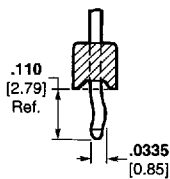
Housing — UL94V-0 rated, polyester, white

Posts — Copper alloy, tin plated, .000030 [0.00076] or .000015 [0.00038] gold over nickel

Notes:

1. Post(s) can be omitted for keying purposes. Specify the desired post(s) to be omitted using the figure to identify Post No. 1.
2. Headers without retentive legs are suitable for breakaway application.
3. 2 or 3 retentive leg(s) per header, depending upon number of positions.

Straight and Right Angle Post with Retentive Legs



For mateability options, see matrix on pages 4 and 5.

For mating half visuals, see pages 6, 7 and 15.

Connector Ordering Information

The "Base Part Numbers" Chart at right shows the base part number and number of posts available for the described headers. Prefixes and suffixes are determined by the number of post positions in the header. For example, the complete part number for a 10-position header with straight posts and without retentive legs would be: Base number **644456** plus prefix-and-suffix

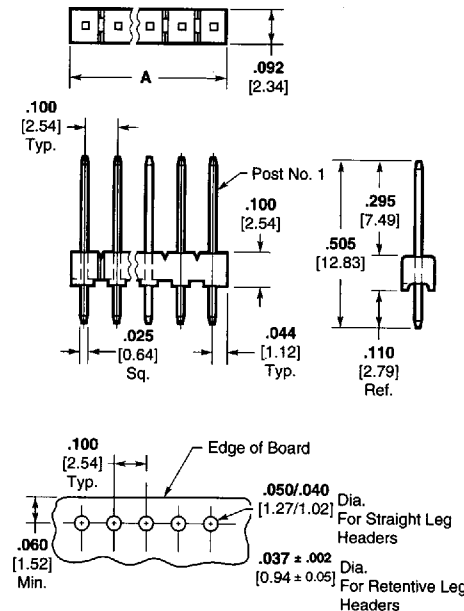
1- -0

The correct ordering number is **1-644456-0**

Header Length

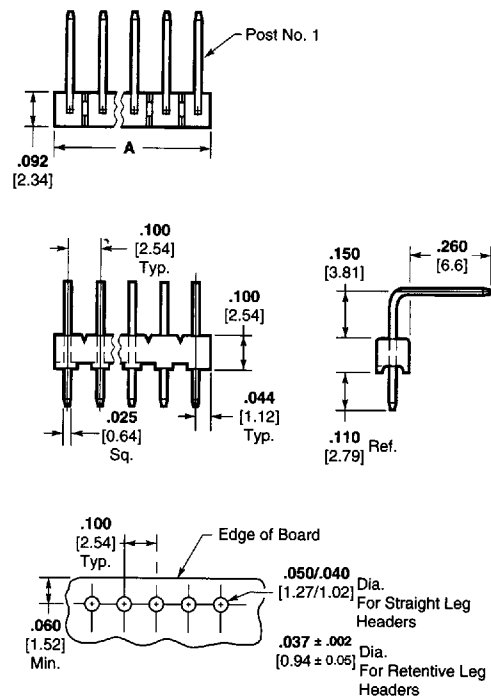
No. of Circuits	Dim. A	Prefix/Suffix
2	.188 4.78	-2
3	.288 7.32	-3
4	.388 9.86	-4
5	.488 12.40	-5
6	.588 14.94	-6
7	.688 17.48	-7
8	.788 20.02	-8

Straight Post (.025 [0.64] Square)



Recommended Mounting Hole Size for .062 [1.57] Thk. PC Board

Right Angle Post (.025 [0.64] Square)



Recommended Mounting Hole Size for .062 [1.57] Thk. PC Board

Base Part Numbers

Straight Posts				Right Angle Posts			
Without Retentive Legs		With Retentive Legs		Without Retentive Legs		With Retentive Legs	
Header Part Nos.	No. of Posts	Header Part Nos.	No. of Posts	Header Part Nos.	No. of Posts	Header Part Nos.	No. of Posts
Standard UL94V-0, Tin Plated							
644456	2-28	644695	2-28	644457	2-28	644694	2-28
Standard UL94V-0, .000030 [0.00076] Gold Plated							
644884	2-28	644886	2-28	644885	2-28	644887	2-28
Standard UL94V-0, .000015 [0.00038] Gold Plated							
644888	2-28	644890	2-28	644889	2-28	644891	2-28

No. of Circuits	Dim. A	Prefix/Suffix	No. of Circuits	Dim. A	Prefix/Suffix	No. of Circuits	Dim. A	Prefix/Suffix	No. of Circuits	Dim. A	Prefix/Suffix
9	.888 22.56	-9	16	1.588 40.34	1- -6	23	2.288 58.12	2- -3			
10	.988 25.10	1- -0	17	1.688 42.88	1- -7	24	2.388 60.66	2- -4			
11	1.088 27.64	1- -1	18	1.788 45.42	1- -8	25	2.488 63.20	2- -5			
12	1.188 30.18	1- -2	19	1.888 47.96	1- -9	26	2.588 65.74	2- -6			
13	1.288 32.72	1- -3	20	1.988 50.50	2- -0	27	2.688 68.28	2- -7			
14	1.388 35.26	1- -4	21	2.088 53.04	2- -1	28	2.788 70.82	2- -8			
15	1.488 37.80	1- -5	22	2.188 55.58	2- -2						

For drawings, technical data or samples, contact your AMP sales engineer or call the AMP Product Information Center 1-800-522-6752. Dimensions are in inches and millimeters unless otherwise specified. Values in brackets are metric equivalents. Specifications subject to change. Consult AMP for latest specifications.

.100 [2.54] Centerline MTA-100 IDC Connectors and Headers

Product Facts

- Connectors and headers for 2 through 28 positions; wire sizes of 22, 24, 26 and 28 AWG [0.4-0.08] mm²
- Wire-to-Post Connectors preloaded with dual beam contacts
- Connectors and headers are end-to-end stackable
- Connector styles include both closed end and feed-thru connectors with locking ramps, with and without polarizing tabs
- Connectors preloaded with IDC contact
- All contacts are slotted for insulation displacement (IDC) terminal technique
- Contacts are lubricated to prevent fretting corrosion
- Benefits derived from the MTA-100 system include increased quality and ease of handling such as—
 - One step assembly
 - No wire stripping
 - No contact damage
 - Reduced wiring errors
 - Simpler tooling
 - Simple maintenance and repair
- Meets the material requirements of Table 23.1 of UL1410 Standards for Television Receiver and Video Products (wire-to-post connectors only)

■ Recognized under the Component Program of Underwriters Laboratories Inc., File No. E28476



■ Certified by Canadian Standards Association

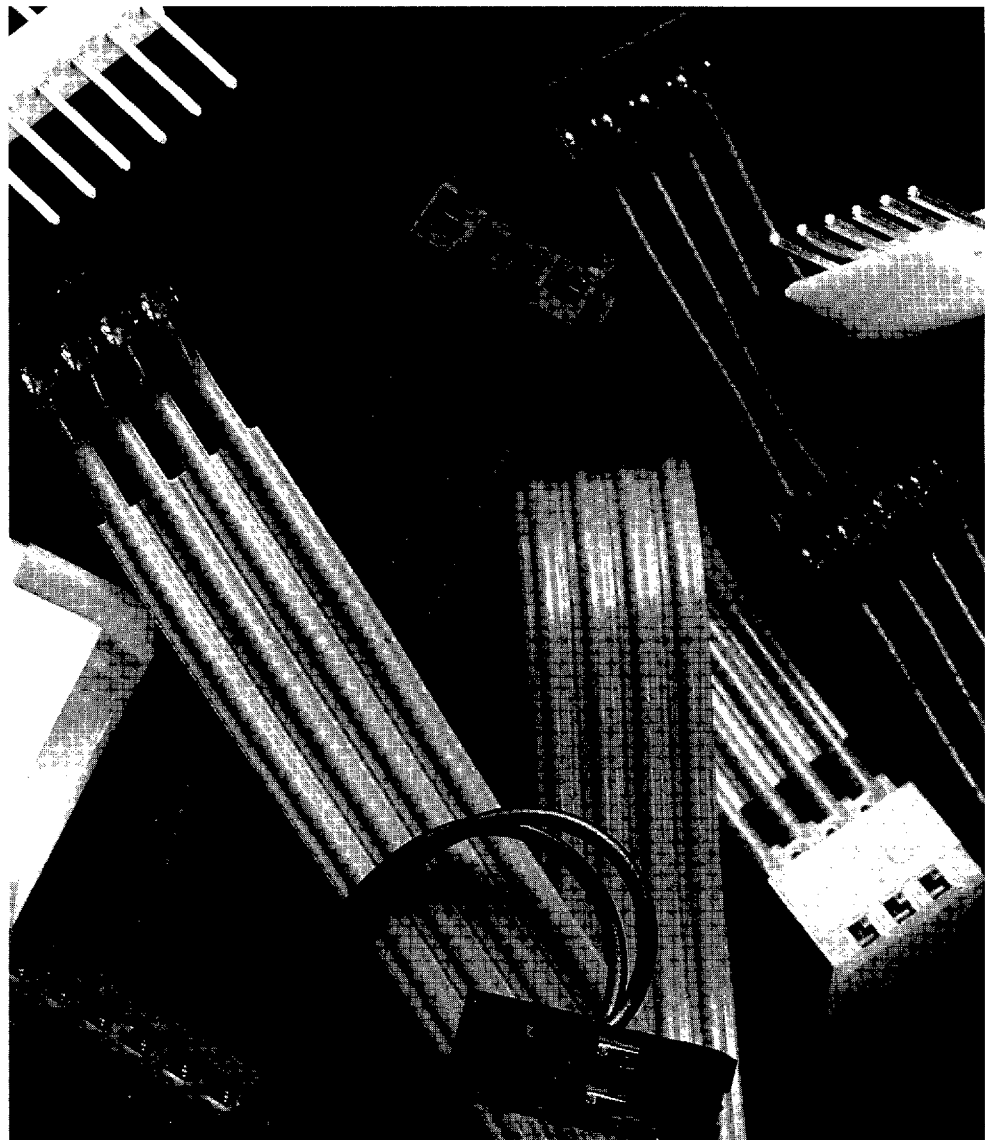


Technical Documents

Product Specification
108-1050 MTA-100 Connectors

Application Specifications
114-1019 MTA-100 Connectors

114-1031 MTA-100 Ribbon Cable Assembly



MTA-100 connectors accept discrete and ribbon cable wire sizes ranging from 22–28 AWG [0.4–0.08 mm²] with maximum insulation outside diameter of .060 [1.52] for terminating single wire and .050 [1.27] for mass termination of wires. Tin plated solid, fused stranded, or stranded (7 and 19 strands) wire with PVC insulation can be used on 22–24 AWG [0.4–0.2 mm²] on MTA-100 connectors and 7 stranded wire on 28–26 [0.09–0.15 mm²] MTA-100 connectors. Only one wire

to be terminated into an IDC contact slot.

The wire-to-post connector housing material is flame retardant thermoplastic, either UL94V-2 or UL94V-0 rated.

A full line of .100 [2.54] centerline headers completes the system. Headers are available with straight or right angle posts, in flat, polarized or friction lock styles. Headers are available in 2 through 28 positions.

Note: Refer to pages 42 thru 46 for approved wire listings.

Performance Data*

Voltage Rating — 250 vac

Current Rating — 4 amp max.

Low-Level Resistance — 5 mΩ max. initial

Dielectric Withstanding Voltage — 750 vac/1 min.

Insulation Resistance — 5000 MΩ min. initial

Operating Temperature — -55° C to +105° C

*Refer to the Product Specification for additional electrical, mechanical and environmental performance tests and requirements.

MTA-100
.100 [2.54]