



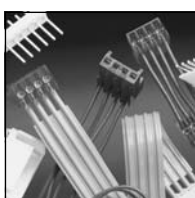
# CONNECTORS/APPLIANCES

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MTA, CST-100 II AND SL-156 CONNECTORS

## Introduction

This catalog has been designed to assist you, our customer, identify products to satisfy your connector needs for printed circuit board headers, mass termination connectors preloaded with contacts, crimp-snap contacts and housings, and card edge connectors with preloaded contacts. The list at right identifies by centerline the types of product available and is meant to be of assistance to you in the product selection process.



**IDC**  
**MTA-100**



**Crimp**  
**CST-100 II**



**IDC**  
**MTA-156**

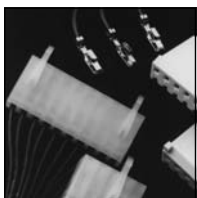
<b>Introduction and Table of Contents</b> .....	2, 3
<b>Connector Selection Guide</b> .....	3

## .100 [2.54] Centerline Connectors

<b>MTA-100 IDC Connectors and Headers</b> .....	4-23
Introduction .....	4
Wire-to-Board Mateability Guide .....	5, 6
Connectors—UL94V-2 and UL94V-0	
Closed End with and without Polarizing Tab .....	7, 8
Feed-Thru with and without Polarizing Tab.....	7, 8
LED Closed End and Feed-Thru—UL94V-2 .....	7, 8
Accessories .....	9, 10
Posted Connectors Mateability Guide .....	11, 12
MTA-100 Posted Connectors (Wire-to-Wire) UL94V-2	
Closed End.....	13
Feed-Thru .....	13
Headers—UL94V-0	
Flat—Straight and Right-Angle Posts.....	14
Narrow Flat—Straight and Right-Angle Posts.....	15
Polarized—Straight and Right-Angle Posts.....	16
Friction Lock—Straight and Right-Angle Posts.....	17
Headers with Retention Peg—Straight Posts.....	18
High Profile Headers—Right-Angle Posts.....	19
Polarized—High Temperature, Straight and Right-Angle Posts.....	20
Friction Lock—High Temperature, Straight and Right-Angle Posts.....	21
Polarized—Surface Mount, Straight .....	22
Friction Lock—Surface Mount, Straight .....	22
Shrouded—Straight and Right-Angle Posts.....	23
<b>CST-100 II Crimp Contacts, Housings and Shrouded</b> .....	24, 25

## .156 [3.96] Centerline Connectors

<b>MTA-156 IDC Connectors and Headers</b> .....	26-46
Introduction .....	26
Wire-to-Board Mateability Guide .....	27, 28
Connectors—UL94V-2 and UL94V-0	
Closed End with Locking Ramp, with and without Polarizing Tabs.....	29
Closed End without Locking Ramp, with and without Polarizing Tabs.....	30
Feed-Thru with Locking Ramp, with and without Polarizing Tabs.....	31
Feed-Thru without Locking Ramp, with and without Polarizing Tabs .....	32
Accessories .....	33-35
Posted Connectors Mateability Guide .....	36, 37
MTA-156 Posted Connectors (Wire-to-Wire)—UL94V-2	
Closed End.....	38
Feed-Thru .....	38
MTA-156 Headers—UL94V-0	
Flat—Straight Posts.....	39
Flat—Right-Angle Posts.....	40
Friction Lock—Straight Posts.....	41
Friction Lock—Right-Angle Posts.....	42
Polarized Lock—Straight Posts.....	43
Polarized Lock—Right-Angle Posts.....	44
Friction Lock—High Temperature, Straight Posts.....	45
Shrouded—Straight and Right-Angle Posts.....	46



**Crimp  
SL-156**

## Need More Information?

Call Technical Support at the numbers listed on the back of this catalog. Technical Support is staffed with specialists well versed in TE products. They can provide you with:

- Technical support
- Catalogs
- Technical Documents
- Product Samples
- Authorized Distributor Locations

<b>SL-156 Crimp Connectors and Headers</b> .....	47-51
Wire-to-Board Mateability Guide .....	47
Wire-to-Board Crimp Contacts and Keying Plugs.....	48
Wire-to-Board Housings—UL94V-0 .....	49
Housings with Through Board Latch—UL94V-2 .....	50
Housings and Contacts for Large Insulation Diameter (LID) Wire.....	51
<b>MTA Wire Selection and Ribbon Cable Preparation</b> .....	52
<b>IDC Ribbon Cable</b> .....	53-56
<b>MTA Wire Termination Flowchart</b> .....	57
<b>MTA Application Tooling</b> .....	58-61
<b>Part Number Index</b> .....	62-64
<b>Global Contacts</b> .....	65
<b>TE Technical Support</b> .....	66

## CONNECTOR SELECTION GUIDE



Product Name	Centerline	Contact Termination	Wire-to-Wire Options	No. of Positions	Wire Size (AWG)	Wire Insulation Dia. Max.	Current Rating (A)**	Voltage Rating Max. (VAC)	Operating Temp. Range (°C)	UL Flammability	Replacement Contacts	Approvals
<b>.100" Centerline</b>												
MTA-100 IDC Connectors and Headers	.100 2.54	IDC	Planned	2-28	28-22	.060* 1.52	5	250	-55 to +105	V-0 & V-2	Yes	
CST-100 II Contacts and Housings	.100 2.54	Crimp	Planned	2-28	26-22	.065 1.65	4	250	-55 to +105	V-0	Yes	
<b>.156" Centerline</b>												
MTA-156 Connectors and Headers	.156 3.96	IDC	Yes	2-24	16-18	.095* 2.41	7	600	-55 to +105	V-0 & V-2	Yes	
SL-156 Contacts and Housings	.156 3.96	Crimp	No	1-24; 2-10 w/ through board latch	24-18	.105 2.67	10	250	-25 to +105	V-0	Yes	
SL-156 Large Ins. Dia. (LID) Contacts and Housings	.156 3.96	Crimp	No	2-24	24-16	.112 2.84	10	250	-25 to +105	V-0	Yes	

\*When terminated one position at a time.

\*\*Current Rating is application dependent.

## .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 mm<sup>2</sup>]
- Wire-to-Post Connectors preloaded with dual beam contacts
- Connectors and headers, except shrouded headers, are end-to-end stackable
- Connector styles include both closed end and feed thru connectors with locking ramps, with and without polarizing tabs
- Molded ribs on housing do not allow reverse mating
- Posted connectors for 2 through 19 positions
- Connectors preloaded with IDC contacts
- All contacts are slotted for insulation displacement (IDC) terminal technique
- Contacts are lubricated for fretting corrosion protection
- 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, File No. LR7189 

### Technical Documents Product Specification

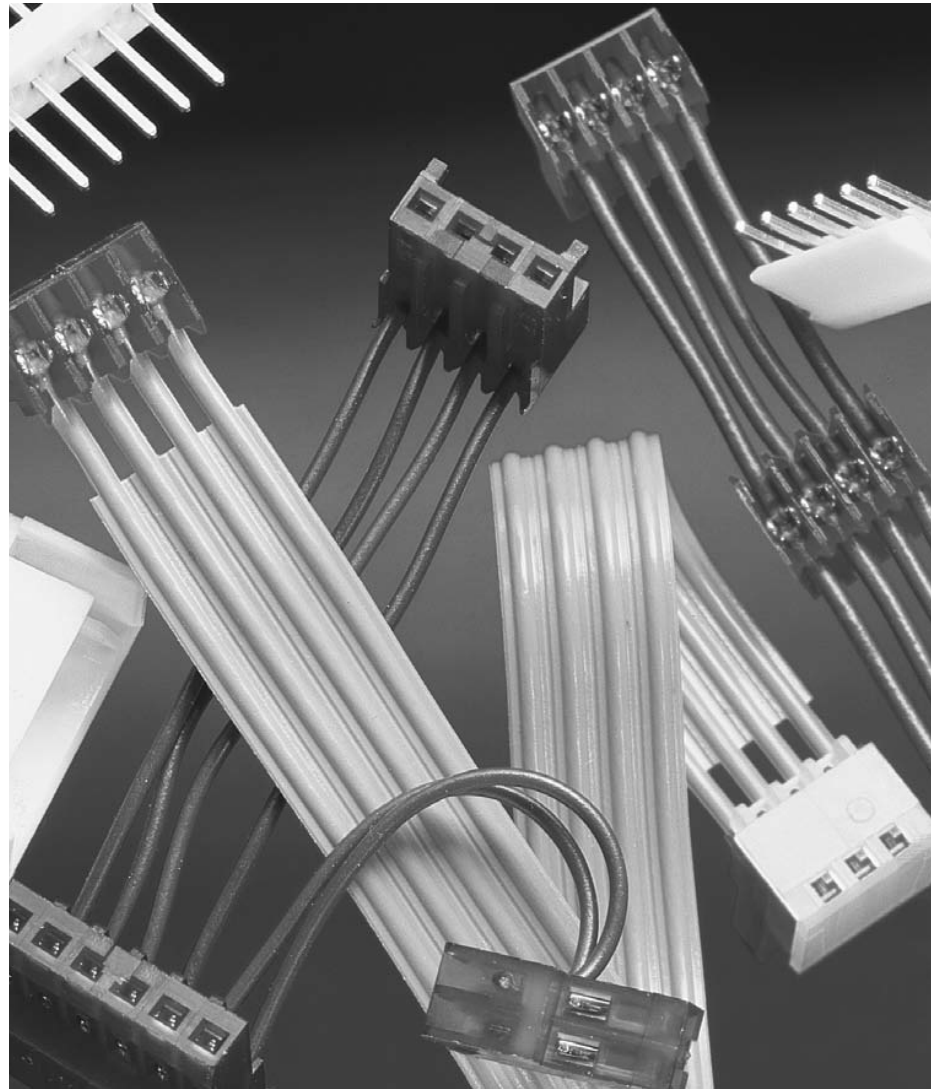
108-1050 MTA-100 Connectors

### 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 mm<sup>2</sup>] 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 strands) wire with PVC insulation can be used on 22-28 AWG [0.4-0.9 mm<sup>2</sup>] MTA-100 connectors and 19 stranded wire on 22-24 AWG [0.4-0.2 mm<sup>2</sup>] 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. Shrouded headers are available in 2 through 14 positions.

### Performance Data\*

**Voltage Rating**—250 vac

**Current Rating**—5 amp max.

**Low-Level Resistance**—  
6 mΩ max. initial

**Dielectric Withstanding Voltage**—  
750 vac/1 min.

**Insulation Resistance**—  
5000 MΩ min. initial

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

Note: Refer to page 52 for approved wire listings.

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



## MTA-100 Connector/Header Mateability Guide (continued)

This matrix has been prepared to assist you, our customer, in defining the correct mating halves for the MTA-100 header and connector combination. Where a “Y” is indicated the combination is a valid mating pair. Where an “N” is indicated the combination is not acceptable for mating.

**Matrix for  
.000030  
[0.00076]  
Gold Plated  
Part Numbers**

		Headers																									
		641211	641212	641213	641214	641215	641216	644487	644489	644884	644885	644886	644887	644896	644897	644898	647108	647109	647114	647116	647117	647168	647626	647624	647534	1744047	1744163
Connectors	641237	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	N	N	N	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y
	641238	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	N	N	N	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y
	641239	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	N	N	N	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y
	641240	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	N	N	N	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y
	641241	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	N	N	N	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y
	641242	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	N	N	N	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y
	641243	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	N	N	N	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y
	641244	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	N	N	N	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y
	644020	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	N	N	N	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y
	644042	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	N	N	N	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y
	644043	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	N	N	N	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y
	644044	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	N	N	N	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y
	644702	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	N	N	N	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y
	644726	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	N	N	N	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y
	*1375820	Y	Y	Y	Y	Y	Y	N	N	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y

\*Select contact plating to match header plating.

**Matrix for  
.000015  
[0.00038]  
Gold Plated  
Part Numbers**

		Headers																										
		641122	641123	641124	641125	641126	641127	644888	644889	644890	644891	647075	647076	647078	647079	647107	647167	647467	647625	647627	647533	1744074						
Connectors	641190	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y		
	641191	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	
	641192	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	
	641193	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	
	641198	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	
	641199	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	
	641200	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	
	641201	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	
	644038	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	
	644040	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	
	647477	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	
	647480	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	
	*1375820	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N
	1744020	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	

\*Select contact plating to match header plating.

## MTA-100 IDC Connectors—Closed End and Feed-Thru

### Material and Finish

**Housing**—UL94V-2 rated, nylon, see below for color; or UL94V-0 rated, nylon, black

**Contacts**—Phosphor bronze, post tin plated, .000030 [0.00076] or .000015 [0.00038] post gold-plated over nickel

### Color Coding by Wire Size for UL94V-2 Connectors

- 28 AWG**—Green
- 26 AWG**—Blue
- 24 AWG**—White
- 22 AWG**—Red

**All wire sizes in UL94V-0**—Black

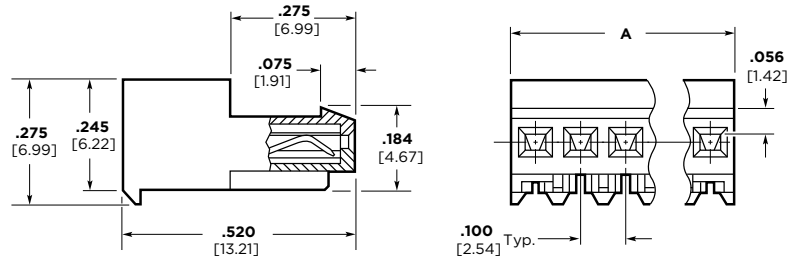
For mateability options, see matrix on pages 5 and 6.

For mating half visuals, see pages 13 thru 23.

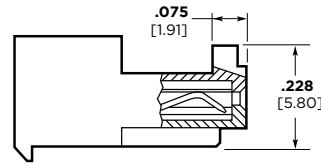
### Notes:

1. Refer to pages 52-56 for approved wire listing.
2. For strain reliefs and dust covers, see page 9.
3. For keying plugs, see page 10.
4. Other circuit sizes are available upon request. Minimums may apply.
5. Connector circuits can be molded closed for keying purposes. Minimums may apply.
6. Where no part numbers appear in the chart, parts can be made available upon request. Minimums may apply.
7. To determine connector overall length (dim. A), multiply .100 x the number of circuits. Example: .100 x 10 circuits equals 1.000 inch [25.4 mm].

### Closed End Connectors

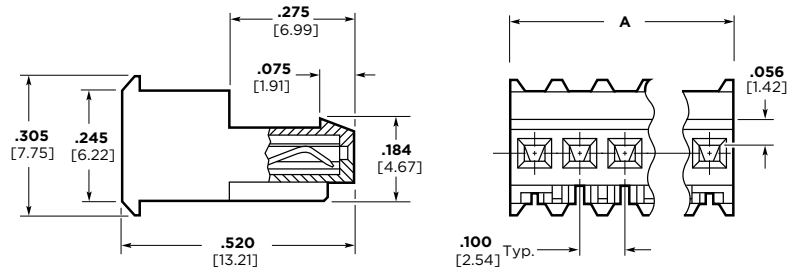


Without Polarizing Tabs

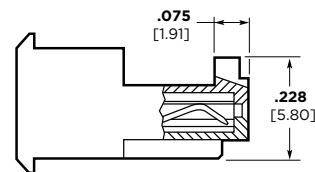


With Polarizing Tabs

### Feed-Thru Connectors



Without Polarizing Tabs



With Polarizing Tabs

## MTA-100 IDC Connectors—Closed End and Feed-Thru (continued)

### Connector Ordering Information

The “Base Part Numbers” Chart at right shows the base part number, and their RoHS (Restrictions on Certain Hazardous Substances) Compliant (lead free) equivalent available for the described connectors.

Prefixes and suffixes are determined by the number of circuit positions in the connector. For example, the complete part number for a 10-position closed end connector without polarizing tabs for 22 AWG wire would be:

Base number **640440** plus prefix-and-suffix  
**4- -- -0**

The correct ordering number is  
**4-640440-0**

All part numbers are the RoHS equivalent version. Example:

No. of Pos.	Lead Free RoHS Prefix/Suffix
2	3-640440-2
3	3-640440-3
4	3-640440-4
5	3-640440-5
6	3-640440-6
7	3-640440-7
8	3-640440-8
9	3-640440-9
10	4-640440-0
11	4-640440-1
12	4-640440-2
13	4-640440-3
14	4-640440-4
15	4-640440-5
16	4-640440-6
17	4-640440-7
18	4-640440-8
19	4-640440-9
20	5-640440-0
21	5-640440-1
22	5-640440-2
23	5-640440-3
24	5-640440-4
25	5-640440-5
26	5-640440-6
27	5-640440-7
28	5-640440-8

**Note:** All RoHS equivalent part numbers may not be available upon catalog release. If the number you need is not available, please contact Product Engineering to expedite your request.

### Base Part Numbers

Connector Type & Wire Size	Closed End				Feed-Thru			
	Without Tabs		With Tabs		Without Tabs		With Tabs	
	Connector Part Nos.	RoHS Equiv.	Connector Part Nos.	RoHS Equiv.	Connector Part Nos.	RoHS Equiv.	Connector Part Nos.	RoHS Equiv.
<b>Standard UL94V-2, Tin Plated</b>								
<b>22 AWG</b> 0.3-0.4 mm <sup>2</sup>	640440	<b>32-58</b>	643813	<b>32-58</b>	640620	<b>32-58</b>	644540 <sup>1</sup>	<b>32-45</b>
<b>24 AWG</b> 0.2 mm <sup>2</sup>	640441	<b>32-58</b>	643814	<b>32-58</b>	640621	<b>32-58</b>	644563 <sup>1</sup>	<b>32-54</b>
<b>26 AWG</b> 0.12-0.15 mm <sup>2</sup>	640442	<b>32-58</b>	643815	<b>32-58</b>	640622	<b>32-58</b>	644564 <sup>1</sup>	<b>32-45</b>
<b>28 AWG</b> 0.08-0.09 mm <sup>2</sup>	640443	<b>32-58</b>	643816	<b>32-58</b>	640623	<b>32-58</b>	644565 <sup>1</sup>	<b>32-45</b>
<b>Tape Mounted on Reel UL94V-2, Tin Plated</b>								
<b>22 AWG</b> 0.3-0.4 mm <sup>2</sup>	640468	<b>32-58</b>	644511	<b>42-68</b>	641311	<b>32-58</b>	—	—
<b>24 AWG</b> 0.2 mm <sup>2</sup>	640469	<b>32-58</b>	644512	<b>32-58</b>	641312	<b>32-58</b>	—	—
<b>26 AWG</b> 0.12-0.15 mm <sup>2</sup>	640470	<b>32-58</b>	644513	<b>32-58</b>	641313	<b>32-58</b>	—	—
<b>28 AWG</b> 0.08-0.09 mm <sup>2</sup>	640471	<b>32-58</b>	644514	<b>32-58</b>	641314	<b>32-58</b>	—	—
<b>Standard UL94V-2, .000030 [0.00076] Gold Plated</b>								
<b>22 AWG</b> 0.3-0.4 mm <sup>2</sup>	641237	<b>32-58</b>	644042	<b>32-58</b>	641241	<b>32-58</b>	644702 <sup>1</sup>	<b>32-45</b>
<b>24 AWG</b> 0.2 mm <sup>2</sup>	641238	<b>32-58</b>	644020	<b>32-58</b>	641242	<b>32-58</b>	—	—
<b>26 AWG</b> 0.12-0.15 mm <sup>2</sup>	641239	<b>32-58</b>	644043 <sup>1</sup>	<b>32-44</b>	641243	<b>32-58</b>	644726 <sup>1</sup>	<b>32-45</b>
<b>28 AWG</b> 0.8-0.9 mm <sup>2</sup>	641240	<b>32-58</b>	644044 <sup>1</sup>	<b>32-44</b>	641244	<b>32-58</b>	—	—
<b>Standard UL94V-2, .000015 [0.00038] Gold Plated</b>								
<b>22 AWG</b> 0.3-0.4 mm <sup>2</sup>	641190	<b>32-58</b>	644038 <sup>1</sup>	<b>32-44</b>	641198	<b>32-58</b>	647477	<b>32-46</b>
<b>24 AWG</b> 0.2 mm <sup>2</sup>	641191	<b>32-58</b>	1744020 <sup>1</sup>	<b>32-44</b>	641199	<b>32-58</b>	—	—
<b>26 AWG</b> 0.12-0.15 mm <sup>2</sup>	641192	<b>32-58</b>	644040 <sup>1</sup>	<b>32-44</b>	641200	<b>32-58</b>	647480	<b>32-43</b>
<b>28 AWG</b> 0.08-0.09 mm <sup>2</sup>	641193	<b>32-58</b>	—	—	641201	<b>32-58</b>	—	—
<b>LED*, UL94V-2, Tin Plated (See Note 1)</b>								
<b>22 AWG</b> 0.3-0.4 mm <sup>2</sup>	641534	<b>32-33</b>	—	—	641653	<b>32-33</b>	—	—
<b>24 AWG</b> 0.2 mm <sup>2</sup>	641535	<b>32-33</b>	644795	<b>32-33</b>	641654	<b>32-33</b>	—	—
<b>26 AWG</b> 0.12-0.15 mm <sup>2</sup>	641536	<b>32-33</b>	—	—	641655	<b>32-33</b>	—	—
<b>28 AWG</b> 0.08-0.09 mm <sup>2</sup>	641537	<b>32-33</b>	—	—	641656	<b>32-33</b>	—	—
<b>Standard UL94V-0, Tin Plated (Gold is available, minimums may apply.) (Black in color)</b>								
<b>22 AWG</b> 0.3-0.4 mm <sup>2</sup>	643498 <sup>1</sup>	<b>32-45</b>	644083 <sup>1</sup>	<b>32-45</b>	644575 <sup>1</sup>	<b>32-45</b>	644578 <sup>1</sup>	<b>32-45</b>
<b>24 AWG</b> 0.2 mm <sup>2</sup>	644574 <sup>1</sup>	<b>32-45</b>	644312 <sup>1</sup>	<b>32-45</b>	644576 <sup>1</sup>	<b>32-45</b>	644579 <sup>1</sup>	<b>32-45</b>
<b>26 AWG</b> 0.12-0.15 mm <sup>2</sup>	643828 <sup>1</sup>	<b>32-45</b>	644313 <sup>1</sup>	<b>32-45</b>	644577 <sup>1</sup>	<b>32-45</b>	644497 <sup>1</sup>	<b>32-45</b>

\*LED connectors are designed to mate with .014-.020 [0.36-0.51] diameter posts or square leads.

<sup>1</sup> Other circuit sizes are available upon request. Minimums may apply.

<sup>2</sup> Tape mounted.

**Note:** Blocked circuit configurations are available. Contact product engineer or product manager for details. Minimums may apply.



## MTA-100 IDC Connector Accessories

### Covers

#### Material (RoHS Compliant)

**Strain Relief Cover**—UL94V-2 rated, nylon, white

**Dust Covers**—UL94V-0 rated, polyester, white

#### Cover Ordering Information

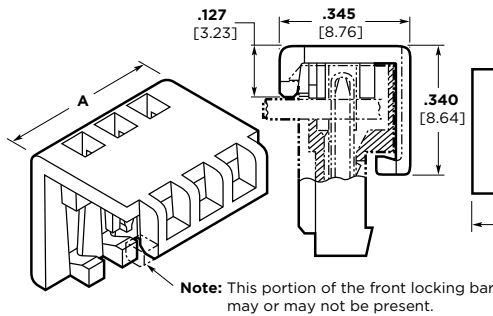
The “Base Part Numbers” Chart at right shows the base part number and number of circuits available for the described cover.

Prefixes and suffixes are determined by the number of circuit positions in the cover. For example, the complete part number for a 10-position closed end strain relief cover would be:

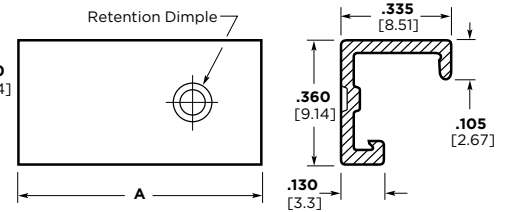
Base number **643075** plus  
prefix-and-suffix  
**1- -0**

The correct ordering number is  
**1-643075-0**

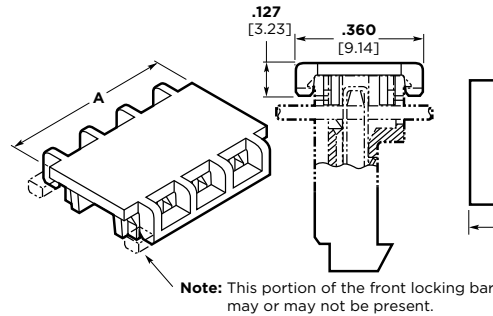
#### Closed End Strain Relief Covers



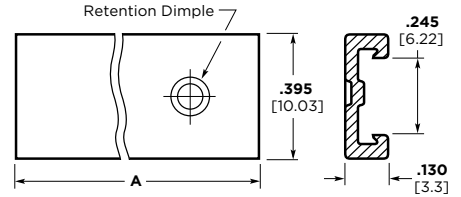
#### Closed End Dust Covers



#### Feed-Thru Strain Relief Covers



#### Feed-Thru Dust Covers



### Base Part Numbers

Closed End				Feed-Thru			
Strain Relief Covers		Dust Covers		Strain Relief Covers		Dust Covers	
Cover Part Nos.	No. of Circuits	Cover Part Nos.	No. of Circuits	Cover Part Nos.	No. of Circuits	Cover Part Nos.	No. of Circuits
643075	2-28	640550	2-28	643077	2-28	640642	3-28

### Cover Length

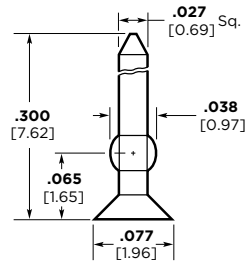
No. of Circuits	Dim. A	Prefix/Suffix	No. of Circuits	Dim. A	Prefix/Suffix	No. of Circuits	Dim. A	Prefix/Suffix	No. of Circuits	Dim. A	Prefix/Suffix
2	.200 5.08	-2	9	.900 22.86	-9	16	1.600 40.64	1- -6	23	2.300 58.42	2- -3
3	.300 7.62	-3	10	1.00 25.4	1- -0	17	1.700 43.18	1- -7	24	2.400 60.96	2- -4
4	.400 10.16	-4	11	1.100 27.94	1- -1	18	1.800 45.72	1- -8	25	2.500 63.5	2- -5
5	.500 12.7	-5	12	1.200 30.48	1- -2	19	1.900 48.26	1- -9	26	2.600 66.04	2- -6
6	.600 15.24	-6	13	1.300 33.02	1- -3	20	2.000 50.8	2- -0	27	2.700 68.58	2- -7
7	.700 17.78	-7	14	1.400 35.56	1- -4	21	2.100 53.34	2- -1	28	2.800 71.12	2- -8
8	.800 20.32	-8	15	1.500 38.1	1- -5	22	2.200 55.88	2- -2			

## MTA-100 IDC Connector Accessories (continued)

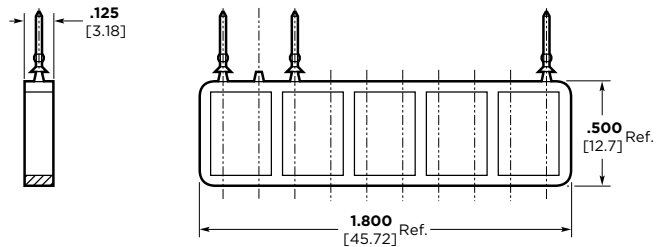
### Keying Plug with Carrier Strip (10 plugs per strip) Part No. 641994-1

#### Material (RoHS Compliant)

UL94V-2 rated, nylon, natural color



**Note:** Removal of contact is not necessary when using keying plug.



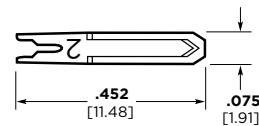
### Replacement IDC Contacts

#### Material and Finish

Phosphor bronze, post tin plated;  
.000030 [0.00076] or .000015  
[0.00038] post gold plated over nickel

**Note:** TE does not recommend terminating an MTA contact more than one time. Use replacement contacts when required for field repairs or wire changes.

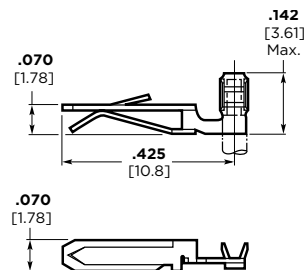
Wire Size		Part Numbers			
AWG	mm <sup>2</sup>	Standard Tin Plated	.000030 [0.00076] Gold Plated	.000015 [0.00038] Gold Plated	LED Tin Plated
22	0.3-0.4	640636-3	641186-4	641186-3	641643-2
24	0.2	640637-3	641187-4	641187-3	641644-2
26	0.12-0.15	640638-3	641188-4	641188-3	641645-2
28	0.08-0.09	640639-3	641189-4	641189-3	641646-2



### Crimp Snap-In Contacts

#### Material and Finish

Phosphor bronze, tin plated.



Wire Size		Part Nos.	
AWG	mm <sup>2</sup>	Loose Piece*	Strip**
26-22	0.12-0.4	640709-2	640708-2

\*Hand Tool No. 59836-1 (IS 408-6527)

\*\*Applicator No. 466747-1 (IS 408-8040)

Special applications for crimp snap-in contacts are:

1. Double wire per contact
2. Coax or shielded wire
3. Mixed wire size in same connector

**Note:** Only one crimp snap-in contact per connector.

## MTA-100 Connector/Connector Mateability Guide

This matrix has been prepared to assist you, our customer, in defining the correct mating halves for the MTA-100 posted connector and connector combination. Where a “Y” is indicated the combination is a valid mating pair. Where an “N” is indicated the combination is not acceptable for mating.

**Matrix for  
Tin Plated  
Part Numbers**

		Posted Connectors							
		647000	647001	647002	647003	647004	647005	647006	647007
Connectors	640440	Y	Y	Y	Y	Y	Y	Y	Y
	640441	Y	Y	Y	Y	Y	Y	Y	Y
	640442	Y	Y	Y	Y	Y	Y	Y	Y
	640443	Y	Y	Y	Y	Y	Y	Y	Y
	640468	Y	Y	Y	Y	Y	Y	Y	Y
	640469	Y	Y	Y	Y	Y	Y	Y	Y
	640470	Y	Y	Y	Y	Y	Y	Y	Y
	640471	Y	Y	Y	Y	Y	Y	Y	Y
	640620	Y	Y	Y	Y	Y	Y	Y	Y
	640621	Y	Y	Y	Y	Y	Y	Y	Y
	640622	Y	Y	Y	Y	Y	Y	Y	Y
	640623	Y	Y	Y	Y	Y	Y	Y	Y
	641311	Y	Y	Y	Y	Y	Y	Y	Y
	641312	Y	Y	Y	Y	Y	Y	Y	Y
	641313	Y	Y	Y	Y	Y	Y	Y	Y
	641314	Y	Y	Y	Y	Y	Y	Y	Y
	641534	Y	Y	Y	Y	Y	Y	Y	Y
	641535	Y	Y	Y	Y	Y	Y	Y	Y
	641536	Y	Y	Y	Y	Y	Y	Y	Y
	641537	Y	Y	Y	Y	Y	Y	Y	Y
	641653	Y	Y	Y	Y	Y	Y	Y	Y
	641654	Y	Y	Y	Y	Y	Y	Y	Y
	641655	Y	Y	Y	Y	Y	Y	Y	Y
	641656	Y	Y	Y	Y	Y	Y	Y	Y
	643498	Y	Y	Y	Y	Y	Y	Y	Y
	643813	Y*	Y*	Y*	Y*	Y*	Y*	Y*	Y*
	643814	Y*	Y*	Y*	Y*	Y*	Y*	Y*	Y*
	643815	Y*	Y*	Y*	Y*	Y*	Y*	Y*	Y*
	643816	Y*	Y*	Y*	Y*	Y*	Y*	Y*	Y*
	643828	Y	Y	Y	Y	Y	Y	Y	Y
	644083	Y*	Y*	Y*	Y*	Y*	Y*	Y*	Y*
	644312	Y*	Y*	Y*	Y*	Y*	Y*	Y*	Y*
	644313	Y*	Y*	Y*	Y*	Y*	Y*	Y*	Y*
	644497	Y*	Y*	Y*	Y*	Y*	Y*	Y*	Y*
	644511	Y*	Y*	Y*	Y*	Y*	Y*	Y*	Y*
	644512	Y*	Y*	Y*	Y*	Y*	Y*	Y*	Y*
	644513	Y*	Y*	Y*	Y*	Y*	Y*	Y*	Y*
	644514	Y*	Y*	Y*	Y*	Y*	Y*	Y*	Y*
	644540	Y*	Y*	Y*	Y*	Y*	Y*	Y*	Y*
	644563	Y*	Y*	Y*	Y*	Y*	Y*	Y*	Y*
	644564	Y*	Y*	Y*	Y*	Y*	Y*	Y*	Y*
	644565	Y*	Y*	Y*	Y*	Y*	Y*	Y*	Y*
	644574	Y	Y	Y	Y	Y	Y	Y	Y
	644575	Y	Y	Y	Y	Y	Y	Y	Y
	644576	Y	Y	Y	Y	Y	Y	Y	Y
644577	Y	Y	Y	Y	Y	Y	Y	Y	
644578	Y*	Y*	Y*	Y*	Y*	Y*	Y*	Y*	
644579	Y*	Y*	Y*	Y*	Y*	Y*	Y*	Y*	
644795	Y*	Y*	Y*	Y*	Y*	Y*	Y*	Y*	
1375820	N	N	N	N	N	N	N	N	

\*2 & 3 position MTA-100 Posted Connectors can not mate with MTA-100 connectors with polarizing tabs.

# MTA, CST-100 II and SL-156 Connectors

## MTA-100 Connector/Connector Mateability Guide (continued)

This matrix has been prepared to assist you, our customer, in defining the correct mating halves for the MTA-100 posted connector and connector combination. Where a “Y” is indicated the combination is a valid mating pair. Where an “N” is indicated the combination is not acceptable for mating.

**Matrix for  
.000030  
[0.00076]  
Gold Plated  
Part Numbers**

		Posted Connectors							
		647008	647009	647010	647011	647012	647013	647014	647015
Connectors	641237	Y	Y	Y	Y	Y	Y	Y	Y
	641238	Y	Y	Y	Y	Y	Y	Y	Y
	641239	Y	Y	Y	Y	Y	Y	Y	Y
	641240	Y	Y	Y	Y	Y	Y	Y	Y
	641241	Y	Y	Y	Y	Y	Y	Y	Y
	641242	Y	Y	Y	Y	Y	Y	Y	Y
	641243	Y	Y	Y	Y	Y	Y	Y	Y
	641244	Y	Y	Y	Y	Y	Y	Y	Y
	644020	Y*	Y*	Y*	Y*	Y*	Y*	Y*	Y*
	644042	Y*	Y*	Y*	Y*	Y*	Y*	Y*	Y*
	644043	Y*	Y*	Y*	Y*	Y*	Y*	Y*	Y*
	644044	Y*	Y*	Y*	Y*	Y*	Y*	Y*	Y*
	644702	Y*	Y*	Y*	Y*	Y*	Y*	Y*	Y*
	644726	Y*	Y*	Y*	Y*	Y*	Y*	Y*	Y*
	1375820	N	N	N	N	N	N	N	N

\*2 & 3 position MTA-100 Posted Connectors can not mate with MTA-100 connectors with polarizing tabs.

**Matrix for  
.000015  
[0.00038]  
Gold Plated  
Part Numbers**

		Posted Connectors							
		647008	647009	647010	647011	647012	647013	647014	647015
Connectors	641190	Y	Y	Y	Y	Y	Y	Y	Y
	641191	Y	Y	Y	Y	Y	Y	Y	Y
	641192	Y	Y	Y	Y	Y	Y	Y	Y
	641193	Y	Y	Y	Y	Y	Y	Y	Y
	641198	Y	Y	Y	Y	Y	Y	Y	Y
	641199	Y	Y	Y	Y	Y	Y	Y	Y
	641200	Y	Y	Y	Y	Y	Y	Y	Y
	641201	Y	Y	Y	Y	Y	Y	Y	Y
	644038	Y*	Y*	Y*	Y*	Y*	Y*	Y*	Y*
	644040	Y*	Y*	Y*	Y*	Y*	Y*	Y*	Y*
	647477	Y*	Y*	Y*	Y*	Y*	Y*	Y*	Y*
	644726	Y*	Y*	Y*	Y*	Y*	Y*	Y*	Y*
	647480	Y*	Y*	Y*	Y*	Y*	Y*	Y*	Y*
	1375820	N	N	N	N	N	N	N	N
	1744020	Y	Y	Y	Y	Y	Y	Y	Y

\*2 & 3 position MTA-100 Posted Connectors can not mate with MTA-100 connectors with polarizing tabs.

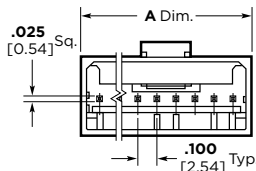
## MTA-100 IDC Posted Connectors (Wire-to-Wire)—Closed End, Feed-Thru

### Material and Finish

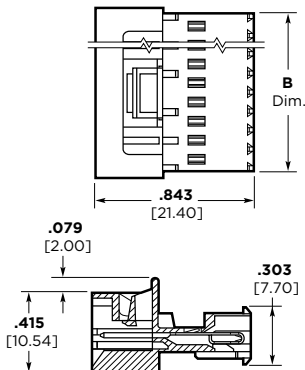
**Housing**—UL94V-2 rated, nylon, see chart for color

**Contacts**—Copper alloy, post tin or gold plated over nickel (see chart)

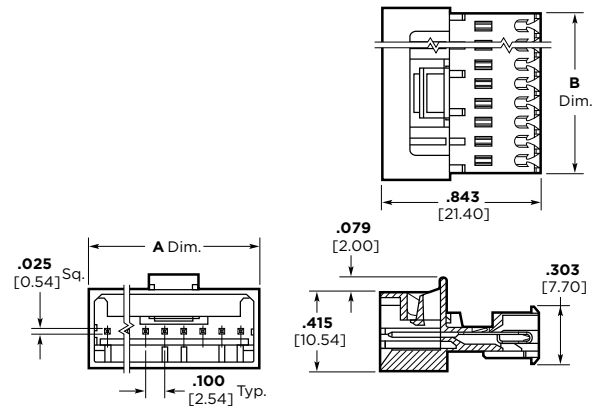
- Note:**
1. Mating half visuals — pages 7 & 8.
  2. Use feed thru strain relief covers & feed thru dust covers (if needed)—page 9.
  3. Approved wire listing—pages 52-56.



### Closed End



### Feed-Thru



### Connector Ordering Information

The “Base Part Numbers” Chart at right shows the base part number.

Prefixes and suffixes are determined by the number of circuit positions in the connector. For example, the complete part number for a 12-position closed end connector for 22 AWG wire would be:

Base number **647000** plus prefix-and-suffix  
**4- -2**

The correct ordering number is  
**4-647000-2**

All part numbers are the RoHS equivalent version. Example:

No. of Pos.	Lead Free RoHS Prefix/Suffix
2	3-647000-2
	thru
19	4-647000-9

See page 8 for an explanation of RoHS lead free equivalents.

**Note:** All RoHS equivalent part numbers may not be available upon catalog release. If the number you need is not available, please contact Product Engineering to expedite your request.

### Color Coding by Wire Size for UL94V-2 Connectors

- 22 AWG**—Red
- 24 AWG**—White
- 26 AWG**—Blue
- 28 AWG**—Green

### Performance Data

- Voltage Rating**—250 vac
- Current Rating**—5 amp max.
- Low-Level Resistance**—6 mΩ max. initial
- Dielectric Withstanding Voltage**—750 vac/1 min.
- Insulation Resistance**—5000 MΩ min. initial
- Operating Temperature**—-55° C to +105° C

### Base Part Numbers

Connector Type & Wire Size	Closed End Connector		Feed-Thru Connector	
	Part Nos.	RoHS Equiv.	Part Nos.	No. of Circuits
<b>Standard UL 94V-2, Tin Plated</b>				
22 AWG 0.3–0.4 mm <sup>2</sup>	647000	32-49 <sup>1</sup>	647004	— <sup>2</sup>
24 AWG 0.2 mm <sup>2</sup>	647001	32-49 <sup>1</sup>	647005	— <sup>2</sup>
26 AWG 0.12–0.15 mm <sup>2</sup>	647002	32-49 <sup>1</sup>	647006	— <sup>2</sup>
28 AWG 0.08–0.09 mm <sup>2</sup>	647003	32-49 <sup>1</sup>	647007	— <sup>2</sup>
<b>Standard UL 94V-2, .000030 [0.00076] Gold Plated</b>				
22 AWG 0.3–0.4 mm <sup>2</sup>	647008	32-49 <sup>1</sup>	647012	— <sup>2</sup>
24 AWG 0.2 mm <sup>2</sup>	647009	32-49 <sup>1</sup>	647013	— <sup>2</sup>
26 AWG 0.12–0.15 mm <sup>2</sup>	647010	32-49 <sup>1</sup>	647014	— <sup>2</sup>
28 AWG 0.08–0.09 mm <sup>2</sup>	647011	32-49 <sup>1</sup>	647015	— <sup>2</sup>
<b>Standard UL 94V-2, .000015 [0.00038] Gold Plated</b>				
22 AWG 0.3–0.4 mm <sup>2</sup>	647016	32-49 <sup>1</sup>	647020	— <sup>2</sup>
24 AWG 0.2 mm <sup>2</sup>	647017	32-49 <sup>1</sup>	647021	— <sup>2</sup>
26 AWG 0.12–0.15 mm <sup>2</sup>	647018	32-49 <sup>1</sup>	647022	— <sup>2</sup>
28 AWG 0.08–0.09 mm <sup>2</sup>	647019	32-49 <sup>1</sup>	647023	— <sup>2</sup>

<sup>1</sup> 2 and 3 position MTA-100 Posted Connectors (Closed End) **can not mate** with MTA-100 connectors with polarizing tabs.  
<sup>2</sup> Parts may be manufactured upon request. Minimums may apply. Contact product engineer or product manager for details.

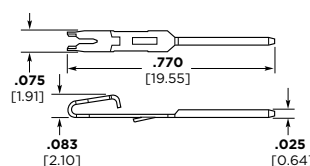
No. of Circuits	Dim.		No. of Circuits	Dim.		No. of Circuits	Dim.		No. of Circuits	Dim.	
	A	B		A	B		A	B		A	B
2	.300 [7.62]	.227 [5.77]	6	.700 [17.78]	.627 [15.93]	10	1.100 [27.94]	1.027 [26.09]	14	1.500 [38.10]	1.427 [36.25]
3	.400 [10.16]	.327 [8.31]	7	.800 [20.32]	.727 [18.47]	11	1.200 [30.48]	1.127 [28.63]	15	1.600 [40.64]	1.527 [38.79]
4	.500 [12.70]	.427 [10.85]	8	.900 [22.86]	.827 [21.01]	12	1.300 [33.02]	1.227 [31.17]	16	1.700 [43.18]	1.627 [41.33]
5	.600 [15.24]	.527 [13.39]	9	1.000 [25.40]	.927 [23.55]	13	1.400 [35.56]	1.327 [33.71]	17	1.800 [45.72]	1.727 [43.87]
									18	1.900 [48.26]	1.827 [46.41]
									19	2.000 [50.80]	1.927 [48.95]

### Technical Documents

- Product Specification**  
108-1050-1 MTA-100 Posted Connector
- Application Specification**  
114-1019 MTA-100 Connectors

### Replacement IDC Contacts

**Material and Finish**  
**Contacts**—Copper alloy, post tin or gold plated over nickel



Wire Size AWG mm <sup>2</sup>	Part Numbers	Part Numbers	
		Tin Plated	.000030 [0.00076] Gold Plated
22 0.3–0.4	3-647030-1	3-647030-2	
24 0.2	3-647031-1	3-647031-2	
26 0.12–0.15	3-647032-1	3-647032-2	
28 0.08–0.9	3-647033-1	3-647033-2	

## MTA-100 Flat Headers—Straight and Right-Angle

### Material and Finish

**Housing**—UL94V-0 rated, polyester, white

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

**Note:**

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. Gold headers are duplex plated, gold on mating end of post and tin on the solder tail.
3. To determine header overall length (dim. A) multiply .100 x the number of posts. Example: .100 x 10 posts equals 1.000 inch [25.4 mm].

For mateability options, see matrix on pages 5 and 6.

For mating half visuals, see pages 7, 8 and 24.

### Header Ordering Information

The “Base Part Numbers” Chart at right shows the base part number.

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 would be:

Base number **641211** plus prefix-and-suffix  
**4- -- 0**

The correct ordering number is  
**4-641211-0**

All part numbers are the RoHS equivalent version. Example:

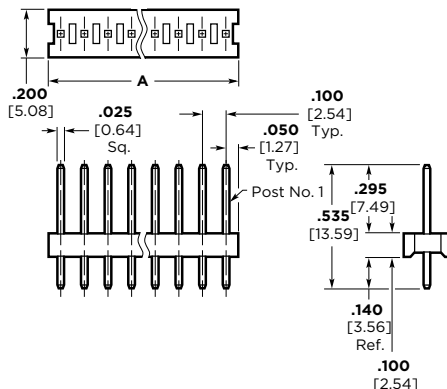
No. of Pos.	Lead Free RoHS Prefix/Suffix
2	3-641211-2
	thru
28	5-641211-8

See page 8 for an explanation of RoHS lead free equivalents.

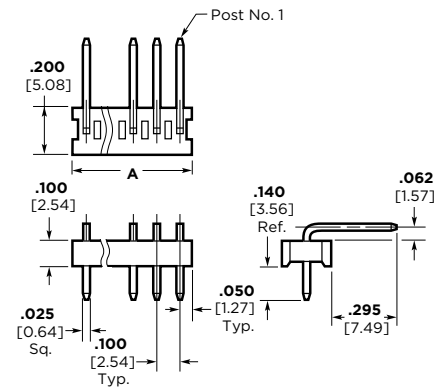
**Note:** All RoHS equivalent part numbers may not be available upon catalog release. If the number you need is not available, please contact Product Engineering to expedite your request.

**Note:** Select load headers (omitted pin headers) are available upon request. Please contact product engineer or product manager for details.

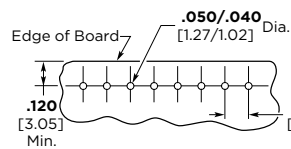
### Straight Post (.025 [0.64] Square)



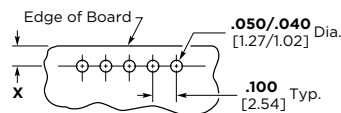
### Right-Angle Post (.025 [0.64] Square)



X = .120 [3.05] min., .240 [6.1] max. when mated with MTA-100 Connector.  
X = .120 [3.05] min., when mated with CST-100 II Connector.



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



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

**Note:** Consult Product Drawing for details on placing headers onto PC boards.

### Base Part Numbers

Straight Posts		Right-Angle Posts	
Header Part Nos.	No. of Post RoHS Equiv.	Header Part Nos.	No. of Posts/RoHS Equiv.
<b>Standard UL94V-0, Tin Plated</b>			
640452	2-28	640453	2-28
<b>Standard UL94V-0, .000030 [0.00076] Gold Plated</b>			
641211	2-28 32-58	641212	2-28 32-58
<b>Standard UL94V-0, .000015 [0.00038] Gold Plated</b>			
641122	2-28 32-58	641123	2-28 32-58

## MTA-100 Narrow Flat Headers—Straight and Right-Angle

### Material and Finish

**Housing**—UL94V-0 rated, polyester, white

**Contacts**—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.
4. Gold headers are duplex plated, gold on mating end of post and tin on the solder tail.
5. To determine header overall length (dim. A) multiply .100 x the number of posts minus (-) .012. Example: .100 x 10 posts - .012 = .988 inches [25.1 mm].

For mateability options, see matrix on pages 5 and 6.

For mating half visuals, see pages 7, 8 and 24.

### Connector Ordering Information

The “Base Part Numbers” Chart at right shows the base part number.

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 **4- -0**

The correct ordering number is **4-644456-0**

All part numbers are the RoHS equivalent version. Example:

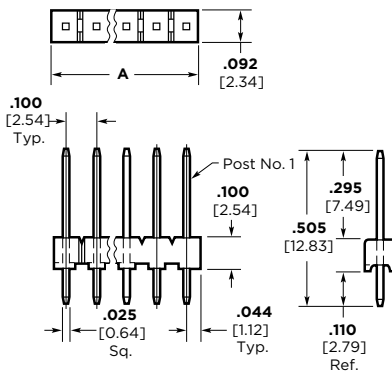
No. of Pos.	Lead Free RoHS Prefix/Suffix
2	3-644456-2
thru	
28	5-644456-8

See page 8 for an explanation of RoHS lead free equivalents.

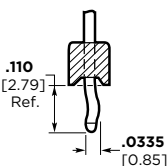
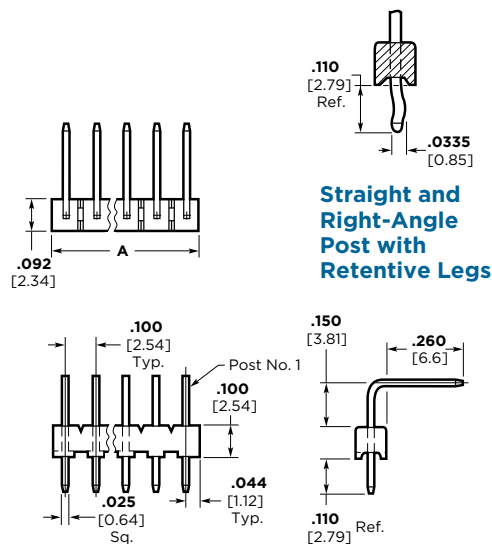
**Note:** All RoHS equivalent part numbers may not be available upon catalog release. If the number you need is not available, please contact Product Engineering to expedite your request.

**Note:** Select load headers (omitted pin headers) are available upon request. Please contact product engineer or product manager for details.

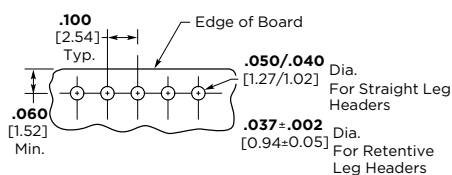
### Straight Post (.025 [0.64] Square)



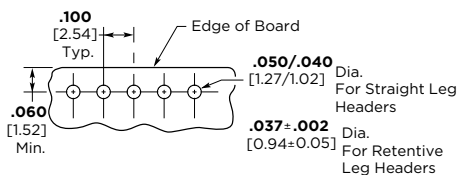
### Right-Angle Post (.025 [0.64] Square)



### Straight and Right-Angle Post with Retentive Legs



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



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

**Note:** Consult Product Drawing for details on placing headers onto PC boards.

### Base Part Numbers

Straight Posts				Right-Angle Posts			
Without Retentive Legs		With Retentive Legs		Without Retentive Legs		With Retentive Legs	
Header Part Nos.	RoHS Equiv.	Header Part Nos.	RoHS Equiv.	Header Part Nos.	RoHS Equiv.	Header Part Nos.	RoHS Equiv.
<b>Standard UL94V-0, Tin Plated</b>							
644456	32-58	644695	32-58	644457	32-58	644694	32-58
<b>Standard UL94V-0, .000030 [0.00076] Gold Plated</b>							
644884	2-28	644886	2-28	644885	2-28	644887	2-28
<b>Standard UL94V-0, .000015 [0.00038] Gold Plated</b>							
644888	2-28	644890	2-28	644889	2-28	644891	2-28

High temperature product available. Please contact Sales Engineer or Product Information Center.

## MTA-100 Polarized Headers—Straight and Right-Angle

### Material and Finish

**Housing**—UL94V-0 rated, polyester, white

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

- Note:**
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. Gold headers are duplex plated, gold on mating end of post and tin on the solder tail.
  3. All posts on retentive leg headers are bent.
  4. To determine header overall length (dim. A) multiply .100 x the number of posts. Example: .100 x 10 posts equals 1.000 inch [25.4 mm].

For mateability options, see matrix on pages 5 and 6.

For mating half visuals, see pages 7, 8 and 24.

### Connector Ordering Information

The “Base Part Numbers” Chart at right shows the base part number.

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 would be:

Base number **641213** plus prefix-and-suffix **4- -0**

The correct ordering number is **4-641213-0**

All part numbers are the RoHS equivalent version. Example:

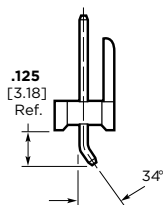
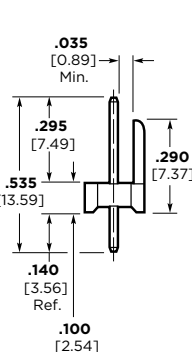
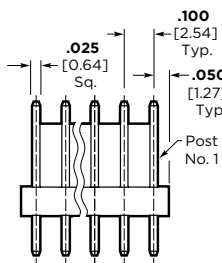
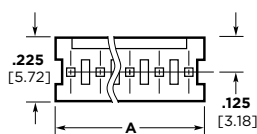
No. of Pos.	Lead Free RoHS Prefix/Suffix
2	3-641213-2
	thru
28	5-641213-8

See page 8 for an explanation of RoHS lead free equivalents.

**Note:** All RoHS equivalent part numbers may not be available upon catalog release. If the number you need is not available, please contact Product Engineering to expedite your request.

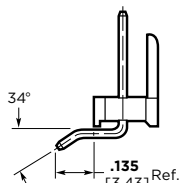
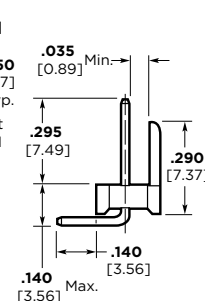
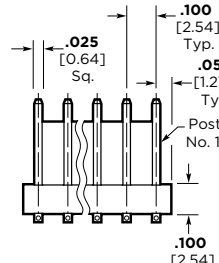
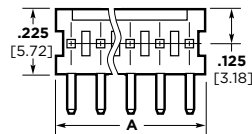
**Note:** Select load headers (omitted pin headers) are available upon request. Please contact product engineer or product manager for details.

### Straight Post (.025 [0.64] Square)

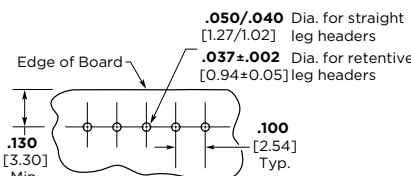


Retentive Leg

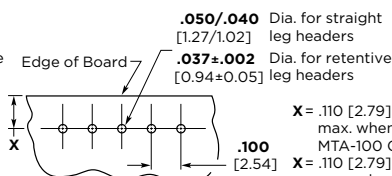
### Right-Angle Post (.025 [0.64] Square)



Retentive Leg



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



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

X = .110 [2.79] min., .160 [4.06] max. when mated with MTA-100 Connector.  
X = .110 [2.79] min., .120 [3.05] max. when mated with CST-100 II Connector.

**Note:** Consult Product Drawing for details on placing headers onto PC boards.

### Base Part Numbers

Straight Posts				Right-Angle Posts			
Without Retentive Legs		With Retentive Legs		Without Retentive Legs		With Retentive Legs	
Header Part Nos.	RoHS Equiv.	Header Part Nos.	RoHS Equiv.	Header Part Nos.	RoHS Equiv.	Header Part Nos.	RoHS Equiv.
<b>Standard UL94V-0, Tin Plated</b>							
640454	2-28	644876	2-28	640455	2-28	644877	2-28
<b>Standard UL94V-0, .000030 [0.00076] Gold Plated</b>							
641213	32-58	—	—	641214	32-58	—	—
<b>Standard UL94V-0, .000015 [0.00038] Gold Plated</b>							
641124	32-58	—	—	641125	32-58	—	—



## MTA-100 Friction Lock Headers—Straight and Right-Angle

### Material and Finish

**Housing**—UL94V-0 rated, polyester, white

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

- Note:**
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. Gold headers are duplex plated, gold on mating end of post and tin on the solder tail.
  3. All posts on retentive leg headers are bent.
  4. To determine header overall length (dim. A) multiply .100 x the number of posts. Example: .100 x 10 posts equals 1.000 inch [25.4 mm].

For mateability options, see matrix on pages 5 and 6.

For mating half visuals, see pages 7, 8 and 24.

### Header Ordering Information

The “Base Part Numbers” Chart at right shows the base part number.

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 would be:

Base number **641215** plus prefix-and-suffix **4- -0**

The correct ordering number is **4-641215-0**

All part numbers are the RoHS equivalent version. Example:

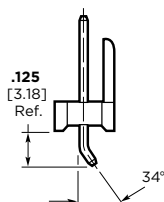
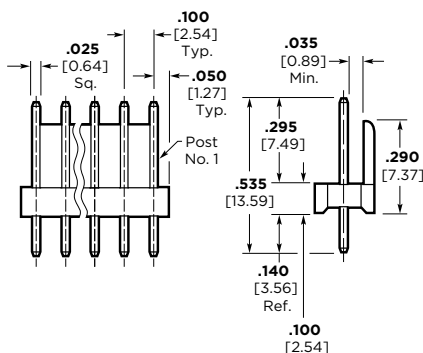
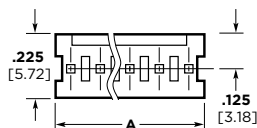
No. of Pos.	Standard Prefix/Suffix	Lead Free RoHS Prefix/Suffix
2	641215-2	3-641215-2
thru		
28	2-641215-8	5-641215-8

See page 8 for an explanation of RoHS lead free equivalents.

**Note:** All RoHS equivalent part numbers may not be available upon catalog release. If the number you need is not available, please contact Product Engineering to expedite your request.

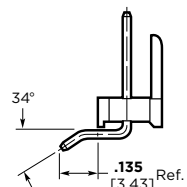
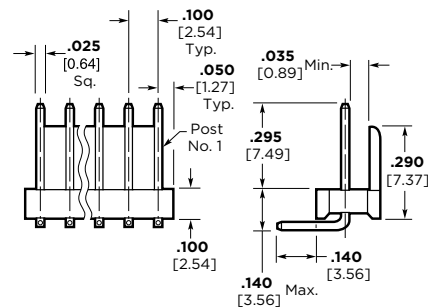
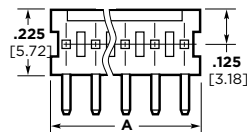
**Note:** Select lead headers (omitted pin headers) are available upon request. Please contact product engineer or product manager for details.

### Straight Post (.025 [0.64] Square)

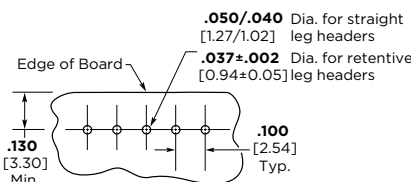


Retentive Leg

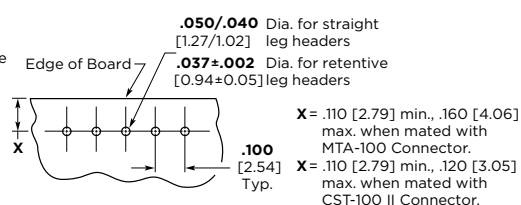
### Right-Angle Post (.025 [0.64] Square)



Retentive Leg



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



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

**Note:** Consult Product Drawing for details on placing headers onto PC boards.

### Base Part Numbers

Straight Posts				Right-Angle Posts			
Without Retentive Legs		With Retentive Legs		Without Retentive Legs		With Retentive Legs	
Header Part Nos.	RoHS Equiv.	Header Part Nos.	RoHS Equiv.	Header Part Nos.	RoHS Equiv.	Header Part Nos.	RoHS Equiv.
<b>Standard UL94V-0, Tin Plated</b>							
640456	2-28	644874	2-28	640457	2-28	644875	2-28
<b>Standard UL94V-0, .000030 [0.00076] Gold Plated</b>							
641215	32-58	—	—	641216	32-58	—	—
<b>Standard UL94V-0, .000015 [0.00038] Gold Plated</b>							
641126	32-58	—	—	641127	32-58	—	—

## MTA-100 Headers with Retention Peg—Straight

### Material and Finish

**Housing**—UL94V-0 rated, thermoplastic, black

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

- Note:** 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. Gold headers are duplex plated, gold on mating end of post and tin on the solder tail.  
 3. To determine header overall length (dim. A) multiply .100 x the number of posts. Example: .100 x 10 posts equals 1.000 inch [25.4 mm].

For mateability options, see matrix on pages 5 and 6.

For mating half visuals, see pages 7, 8 and 24.

### Header Ordering Information

The “Base Part Numbers” Chart at right shows the base part number.

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 would be:

Base number **647609** plus  
 prefix-and-suffix  
**4- -0**

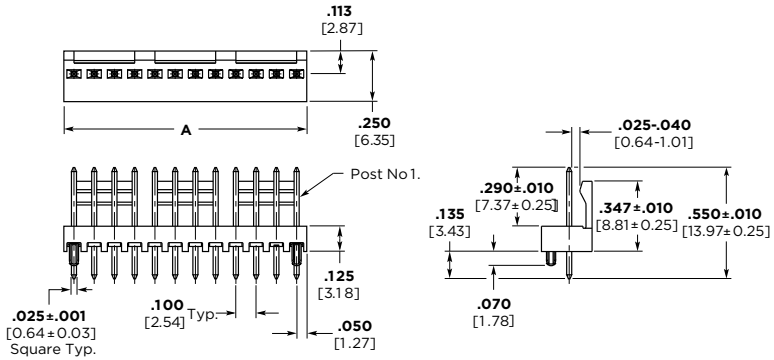
The correct ordering number is  
**4-647609-0**

All part numbers are the RoHS equivalent version. Example:

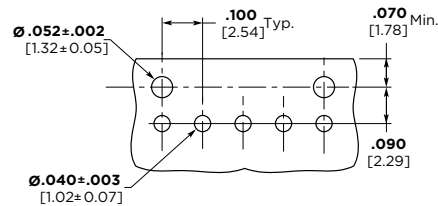
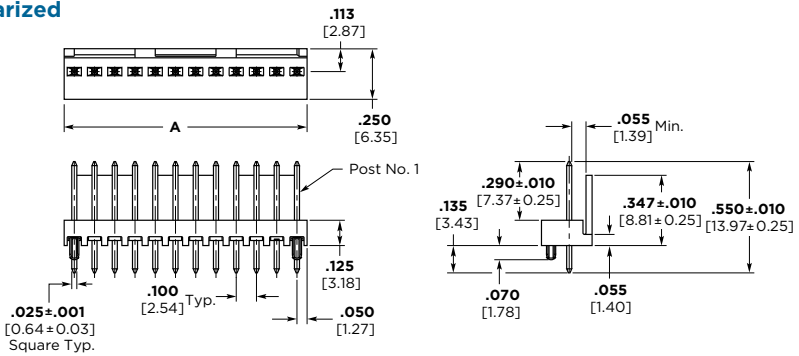
No. of Pos.	Standard Prefix/Suffix	Lead Free RoHS Prefix/Suffix
2	647609-2	3-647609-2
3	647609-3	3-647609-3
4	647609-4	3-647609-4
5	647609-5	3-647609-5
6	647609-6	3-647609-6
7	647609-7	3-647609-7
8	647609-8	3-647609-8
9	647609-9	3-647609-9
10	1-647609-0	4-647609-0
11	1-647609-1	4-647609-1
12	1-647609-2	4-647609-2

**Note:** All RoHS equivalent part numbers may not be available upon catalog release. If the number you need is not available, please contact Product Engineering to expedite your request.

### Friction Lock



### Polarized



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

**Note:** Consult Product Drawing for details on placing headers onto PC boards.

### Base Part Numbers

Friction Lock		Polarized	
Header Part Nos.	RoHS Equiv.	Header Part Nos.	RoHS Equiv.
<b>Standard UL94V-0, Tin Plated</b>			
647609	<b>32-42</b>	647623	<b>32-42</b>
<b>Standard UL94V-0, .000030 [0.00076] Gold Plated</b>			
647626	<b>32-42</b>	647624	<b>32-42</b>
<b>Standard UL94V-0, .000015 [0.00038] Gold Plated</b>			
647627	<b>32-42</b>	647625	<b>32-42</b>

**Note:** Select load headers (omitted pin headers) are available upon request. Please contact product engineer or product manager for details.

## MTA-100 High Profile Headers—Right-Angle

### Material and Finish

**Housing**—UL94V-0 rated, thermoplastic, black

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

- Note:**
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. Gold headers are duplex plated, gold on mating end of post and tin on the solder tail.
  3. To determine header overall length (dim. A) multiply .100 x the number of posts. Example: .100 x 10 posts equals 1.000 inch [25.4 mm].
  4. This product can be mounted in the middle of the PC Board as shown in the PCB layout.

For mateability options, see matrix on pages 5 and 6.

For mating half visuals, see pages 7, 8 and 24.

### Header Ordering Information

The “Base Part Numbers” Chart at right shows the base part number.

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 right-angle posts would be:

Base number **647630** plus  
prefix-and-suffix  
**4- -0**

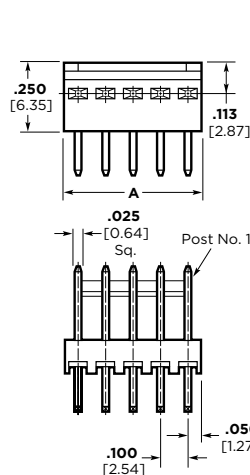
The correct ordering number is  
**4-647630-0**

All part numbers are the RoHS equivalent version. Example:

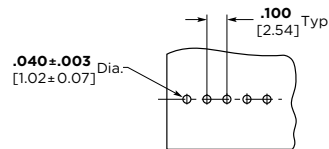
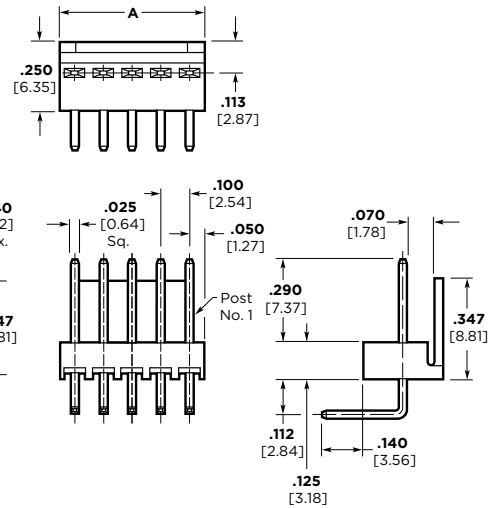
No. of Pos.	Lead Free RoHS Prefix/Suffix
2	3-647630-2
3	3-647630-3
4	3-647630-4
5	3-647630-5
6	3-647630-6
7	3-647630-7
8	3-647630-8
9	3-647630-9
10	4-647630-0
11	4-647630-1
12	4-647630-2

**Note:** All RoHS equivalent part numbers may not be available upon catalog release. If the number you need is not available, please contact Product Engineering to expedite your request.

### Friction Lock Right-Angle Post (.025 [0.64] Square)



### Polarized Right-Angle Post (.025 [0.64] Square)



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

**Note:** Consult Product Drawing for details on placing headers onto PC boards.

### Base Part Numbers

Friction Lock Right-Angle Posts		Polarized Right-Angle Posts	
Header Part Nos.	RoHS Equiv.	Header Part Nos.	RoHS Equiv.
<b>Standard UL94V-0, Tin Plated</b>			
647630	<b>32-42</b>	647651	<b>32-42</b>
<b>Standard UL94V-0, .000030 [0.00076] Gold Plated</b>			
647629	<b>32-42</b>	647653	<b>32-42</b>
<b>Standard UL94V-0, .000015 [0.00038] Gold Plated</b>			
647628	<b>32-42</b>	647652	<b>32-42</b>

**Note:** Select load headers (omitted pin headers) are available upon request. Please contact product engineer or product manager for details.

## MTA-100 Polarized High Temperature Headers—Straight and Right-Angle

### Material and Finish

#### Housing—

2-12 Position—UL94V-0 rated, nylon, black  
 13-18 Position—UL94V-0 rated, LCP, black

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

#### Note:

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. Gold headers are duplex plated, gold on mating end of post and tin on the solder tail.
3. To determine header overall length (dim. A) multiply .100 x the number of posts. Example: .100 x 10 posts equals 1.000 inch [25.4 mm].

For mateability options, see matrix on pages 5 and 6.

For mating half visuals, see pages 7, 8 and 24.

### Header Ordering Information

The “Base Part Numbers” Chart at right shows the base part number.

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 would be:

Base number **647047** plus  
 prefix-and-suffix  
**4- -0**

The correct ordering number is  
**4-647047-0**

All part numbers are the RoHS equivalent version. Example:

No. of Pos.	Lead Free RoHS Prefix/Suffix
2	3-647047-2
	thru
12	4-647047-2
13	NA
	thru
18	NA

See page 8 for an explanation of RoHS lead free equivalents.

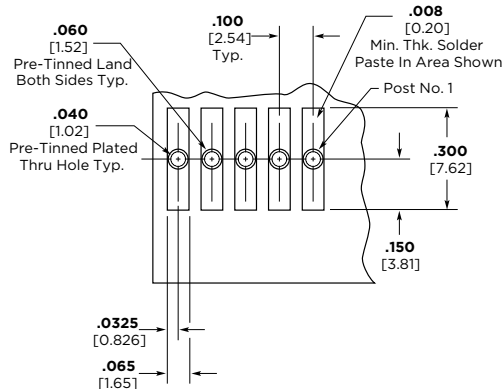
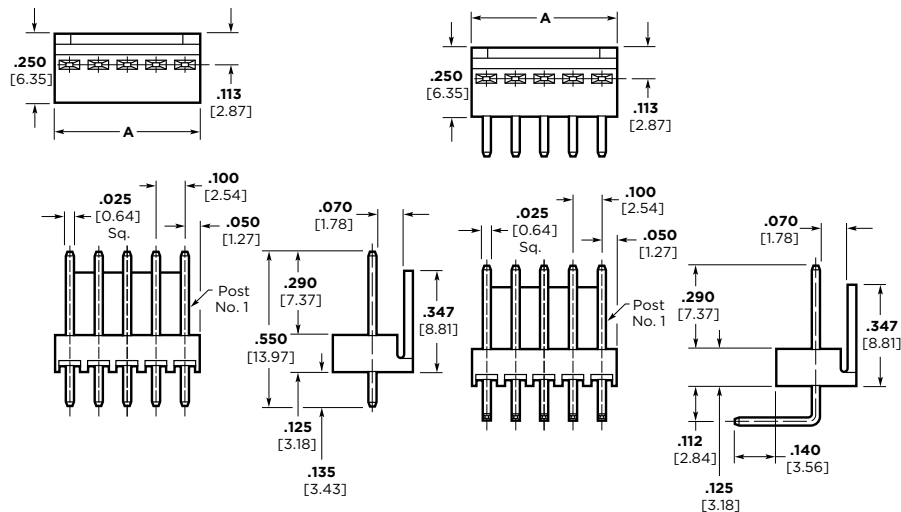
**Note:** All RoHS equivalent part numbers may not be available upon catalog release. If the number you need is not available, please contact Product Engineering to expedite your request.

### For use with Infrared Reflow Process

**Maximum Temperature Rating:** 2-12 Position: 280°C  
 13-18 Position: 235°C

#### Straight Post (.025 [0.64] Square)

#### Right-Angle Post (.025 [0.64] Square)



**Note:** Consult Product Drawing for details on placing headers onto PC boards.

Recommended Mounting Hole Pattern for .062 [1.57] Thick PC Board

### Base Part Numbers

Straight Posts		Straight Posts (Tube Loaded)		Right-Angle Posts	
Header Part Nos.	RoHS Equiv.	Header Part Nos.	RoHS Equiv.	Header Part Nos.	RoHS Equiv.
<b>Standard UL94V-0, Tin Plated</b>					
647047	<b>32-42</b>	647298	<b>32-42</b>	647048	<b>32-42</b>
<b>Standard UL94V-0, .000030 [0.00076] Gold Plated</b>					
647109	<b>32-42</b>	647300	<b>32-42</b>	647114	<b>32-42</b>
<b>Standard UL94V-0, .000015 [0.00038] Gold Plated</b>					
647075	<b>32-42</b>	647299	<b>32-42</b>	647076	<b>32-42</b>

**Note:** Select load headers (omitted pin headers) are available upon request. Please contact product engineer or product manager for details.

## MTA-100 Friction Lock High Temperature Headers—Straight and Right-Angle

### Material and Finish

#### Housing—

2-12 Position—UL94V-0 rated, nylon, black  
 13-18 Position—UL94V-0 rated, LCP, black

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

- Note:** 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. Gold headers are duplex plated, gold on mating end of post and tin on the solder tail.  
 3. To determine header overall length (dim. A) multiply .100 x the number of posts. Example: .100 x 10 posts equals 1.000 inch [25.4 mm].

For mateability options, see matrix on pages 5 and 6.

For mating half visuals, see pages 7, 8 and 24.

### Header Ordering Information

The “Base Part Numbers” Chart at right shows the base part number.

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 would be:

Base number **647050** plus  
 prefix-and-suffix  
**4- -- -0**

The correct ordering number is  
**4-647050-0**

All part numbers are the RoHS equivalent version. Example:

No. of Pos.	Standard Prefix/Suffix	Lead Free RoHS Prefix/Suffix
2	647050-2	3-647050-2
	thru	
12	1-647050-2	4-647050-2
13	1-647050-3	NA
	thru	
18	1-647050-8	NA

See page 8 for an explanation of RoHS lead free equivalents.

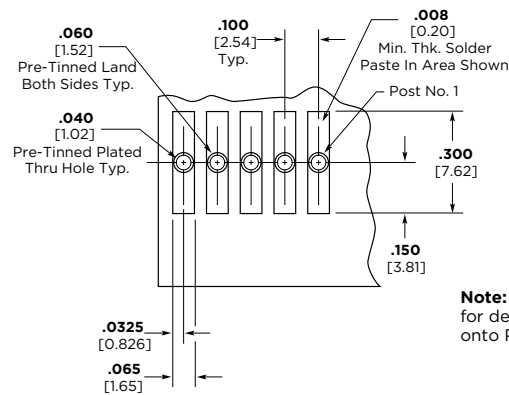
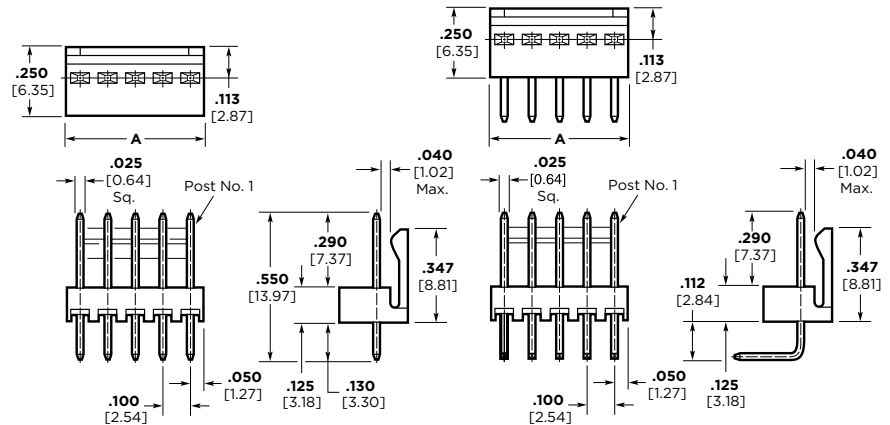
**Note:** All RoHS equivalent part numbers may not be available upon catalog release. If the number you need is not available, please contact Product Engineering to expedite your request.

### For use with Infrared Reflow Process

**Maximum Temperature Rating:** 2-12 Position: 280°C  
 13-18 Position: 235°C

#### Straight Post (.025 [0.64] Square)

#### Right-Angle Post (.025 [0.64] Square)



**Note:** Consult Product Drawing for details on placing headers onto PC boards.

Recommended Mounting Hole Pattern for .062 [1.57] Thick PC Board

### Base Part Numbers

Straight Posts		Straight Posts (Tube Loaded)		Right-Angle Posts	
Header Part Nos.	RoHS Equiv.	Header Part Nos.	RoHS Equiv.	Header Part Nos.	RoHS Equiv.
<b>Standard UL94V-0, Tin Plated</b>					
647050	<b>32-42</b>	647295	<b>32-42</b>	647051	<b>32-42</b>
<b>Standard UL94V-0, .000030 [0.00076] Gold Plated</b>					
647116	<b>32-42</b>	647297	<b>32-42</b>	647117	<b>32-42</b>
<b>Standard UL94V-0, .000015 [0.00038] Gold Plated</b>					
647078	<b>32-42</b>	647296	<b>32-42</b>	647079	<b>32-42</b>

**Note:** Select load headers (omitted pin headers) are available upon request. Please contact product engineer or product manager for details.

## MTA-100 Polarized and Friction Lock Surface Mount Headers—Straight

### Material and Finish

#### Housing—

2-12 Position—UL94V-0 rated, nylon, black  
 13-18 Position—UL94V-0 rated, LCP, black

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

- Note:** 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. Gold headers are duplex plated, gold on mating end of post and tin on the solder tail.  
 3. To determine header overall length (dim. A) multiply .100 x the number of posts. Example: .100 x 10 posts equals 1.000 inch [25.4 mm].

For mateability options, see matrix on pages 5 and 6.

For mating half visuals, see pages 7, 8 and 24.

### Header Ordering Information

The “Base Part Numbers” Chart at right shows the base part number.

Prefixes and suffixes are determined by the number of post positions in the header. For example, the complete part number for a 10-position surface mount polarized header would be:

Base number **647106** plus  
 prefix-and-suffix  
**4- -0**

The correct ordering number is  
**4-647106-0**

All part numbers are the RoHS equivalent version. Example:

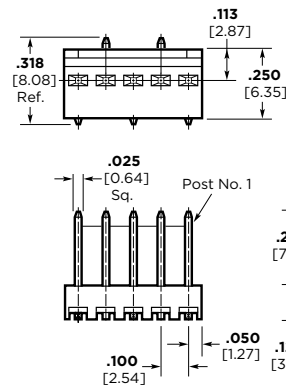
No. of Pos.	Lead Free RoHS Prefix/Suffix
2	3-647106-2
12	4-647106-2

See page 8 for an explanation of RoHS lead free equivalents.

**Note:** All RoHS equivalent part numbers may not be available upon catalog release. If the number you need is not available, please contact Product Engineering to expedite your request.

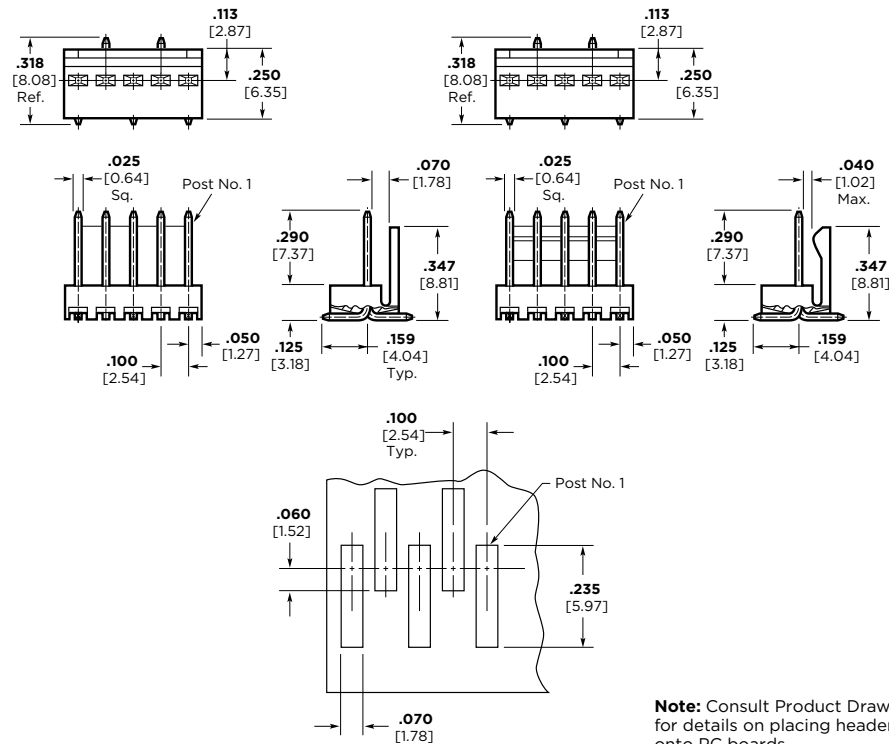
### For use with Infrared Reflow Process

#### Polarized Header



**Maximum Temperature Rating:** 2-12 Position: 280°C  
 13-18 Position: 235°C

#### Friction Lock Header



Recommended PC Board Layout for use with .010 [0.25] Thick Stencil

**Note:** Consult Product Drawing for details on placing headers onto PC boards.

### Base Part Numbers

Polarized Headers		Friction Lock Headers	
Header Part Nos.	RoHS Equiv.	Header Part Nos.	RoHS Equiv.
<b>Standard UL94V-0, Tin Plated</b>			
647106	32-42	647166	32-42
<b>Standard UL94V-0, .000030 [0.00076] Gold Plated</b>			
647108	32-42	647168	32-42
<b>Standard UL94V-0, .000015 [0.00038] Gold Plated</b>			
647107	32-42	647167	32-42

### Tape Mount Part Numbers

Polarized Headers		Friction Lock Headers	
Header Part Nos.	RoHS Equiv.	Header Part Nos.	RoHS Equiv.
<b>Standard UL94V-0, Tin Plated</b>			
647531	32-42	647502	32-42
<b>Standard UL94V-0, .000030 [0.00076] Gold Plated</b>			
		1744163	32-42
<b>Standard UL94V-0, .000015 [0.00038] Gold Plated</b>			
		647467	32-42

**Note:** Select load headers (omitted pin headers) are available upon request. Please contact product engineer or product manager for details.

## MTA-100 Shrouded Headers—Straight and Right-Angle

### Material and Finish

**Housing**—UL94V-0 rated, polyester, black

**Posts**—Copper alloy, tin plated, .000030 [0.00076] 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 with .000015 [0.00038] gold plated post are available upon request. Minimums may apply.
3. Gold headers are duplex plated, gold on mating end of post and tin on the solder tail.

For mateability options, see matrix on pages 5 and 6.

For mating half visuals, see pages 7, 8 and 24.

### Header Ordering Information

The “Base Part Numbers” Chart at right shows the base part number.

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 with pegs would be:

Base number **644486** plus prefix-and-suffix  
**4 -- -0**

The correct ordering number is  
**4-644486-0**

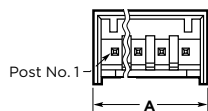
See page 15 for an explanation of RoHS lead free equivalents.

**Note:** All RoHS equivalent part numbers may not be available upon catalog release. If the number you need is not available, please contact Product Engineering to expedite your request.

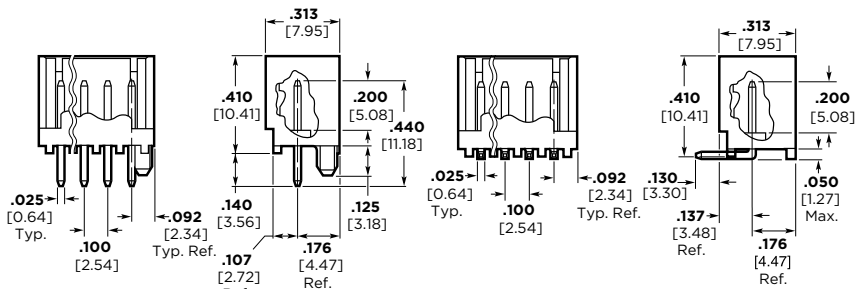
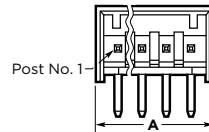
**Notes:**

1. Select load headers (omitted pin headers) are available upon request. Please contact product engineer or product manager for details.
2. MTA-100 shrouded headers do not mate with CST-100 II housings.

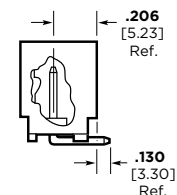
### Straight Post (.025 [0.64] Square)



### Right-Angle (.025 [0.64] Square)



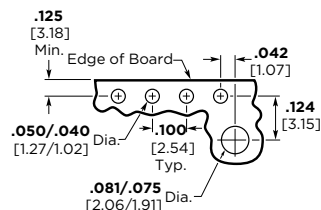
**Front Bend**



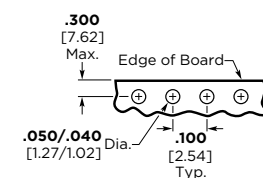
**Rear Bend**



**Polarized Retention Peg**



**Recommended Mounting Hole Pattern for .062 [1.57] Thk. PC Board (Solder Side of Board Shown)**



**Recommended Mounting Hole Pattern for .062 [1.57] Thk. PC Board (Solder Side of Board Shown)**

**Note:** Consult Product Drawing for details on placing headers onto PC boards.

### Base Part Numbers

Straight Posts				Right-Angle Posts			
With Pegs		Without Pegs		Without Pegs Only			
Header Part Nos.	RoHS Equiv.	Header Part Nos.	RoHS Equiv.	Front Bend		Rear Bend	
Header Part Nos.	RoHS Equiv.	Header Part Nos.	RoHS Equiv.	Header Part Nos.	RoHS Equiv.	Header Part Nos.	RoHS Equiv.
<b>Standard UL94V-0, Tin Plated</b>							
644486	22-34	644861	22-34	644488	22-34	644803	22-34
<b>Standard UL94V-0, .000030 [0.00076] Gold Plated</b>							
644487	22-34	—	—	644489	22-34	—	—

### Header Length

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
2	.284 7.21	3- -2	6	.684 17.37	3- -6	10	1.084 27.53	4- -0	14	1.484 37.69	4- -4
3	.384 9.75	3- -3	7	.784 19.91	3- -7	11	1.184 30.07	4- -1			
4	.484 12.29	3- -4	8	.884 22.45	3- -8	12	1.284 32.61	4- -2			
5	.584 14.83	3- -5	9	.984 24.99	3- -9	13	1.384 35.15	4- -3			

## .100 [2.54] Centerline CST-100 II Crimp Contacts and Housings

### PRODUCT FACTS

- Low cost wire-to-board interconnections
- Wide wire range for single contact
- Tin and gold plated contacts
- Mates with specified MTA and similar competitive notched headers
- Plastic latching feature in housing helps prevent contact backout
- Locking ramps and polarizing tabs are standard
- For keying purposes use keying plug 641994-1 (page 10)
- Recognized under the Component Program of Underwriters Laboratories Inc., File No. E28476
- Certified by Canadian Standards Association, File No. LR7189



For mateability options, see matrix on pages 5 and 6.

For mating half visuals, see pages 13 thru 23 and 25.

See page 8 for an explanation of RoHS lead free equivalents.

### Performance Data

**Voltage Rating**—250 vac

**Current Rating**—4 amp max.

**Low-Level Resistance**—  
6 mΩ max. initial; 10 mΩ max. initial

**Dielectric Withstanding Voltage**—  
750 vac/1 min.

**Insulation Resistance**—1000 MΩ min.  
initial; 100 MΩ min. final

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

### Technical Documents

**Product Specification**  
108-1948

**Application Specifications**  
114-13036

**Instruction Sheet**  
408-8493

### Application Tooling

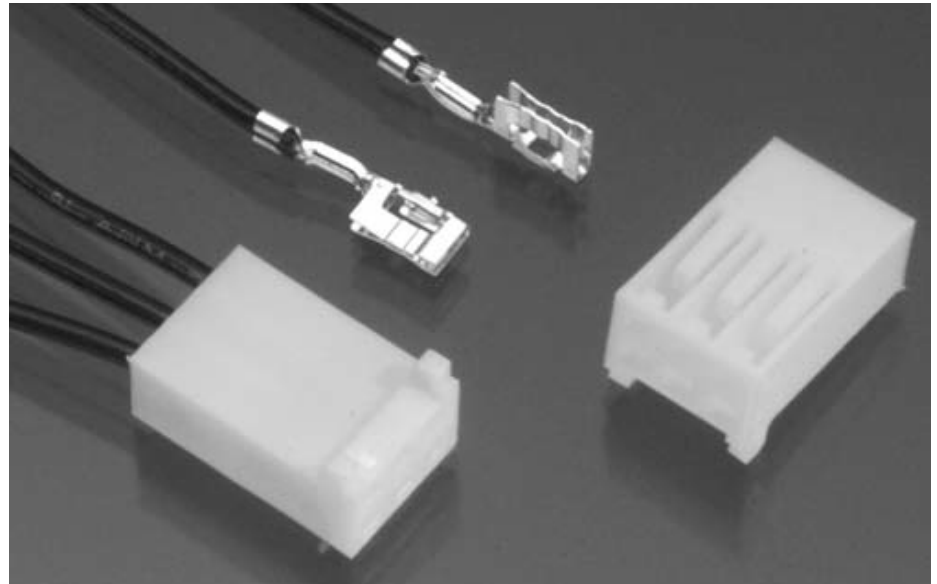
**Loose Piece Contacts**—Hand Tool No.  
58517-3 (408-4064)

**Strip Contacts**—AMP-O-LECTRIC Model  
“G” Termination Machine\* Applicator No.  
567373-3 (Request Catalog 65828)

AMP-O-MATIC Stripper-Crimper Machine\*  
Applicator No. 567910-1 or 567827-1 (with  
CQM) (Request Catalog 65004)

AMPOMATOR CLS IIIG Lead Making Ma-  
chine\* (Request Catalog 82659)

\*Requires applicators. For part numbers, call Technical Support.



### Contacts

Part Numbers		
Tin Plated	15 Au Gold Plated	30 Au Gold Plated
1375819-1 (Strip)	1375819-2 (Strip)	1375819-3 (Strip)
1445336-1 (Loose Piece)	1445336-2 (Loose Piece)	1445336-3 (Loose Piece)

### Material and Finish (RoHS Compliant)

Phosphor bronze, pretinned or .000015 [0.00038] gold, over nickel  
.000030 [0.00076] gold over nickel

**Wire Range**—22–26 AWG [0.35–0.13 mm<sup>2</sup>]

**Max. Ins. Dia.**— .065 [1.65]

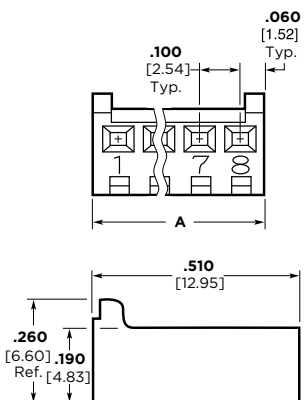
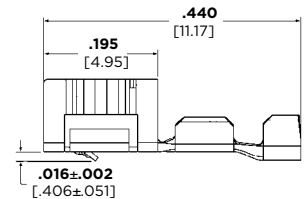
### Housing\*

#### Material (RoHS Compliant)

UL94V-0 rated, nylon, white

No. of Pos.	Dim. A	Part Numbers
2	.220 5.59	1375820-2
3	.320 8.13	1375820-3
4	.420 10.67	1375820-4
5	.520 13.21	1375820-5
6	.620 15.75	1375820-6
7	.720 18.29	1375820-7
8	.820 20.83	1375820-8
9	.920 23.37	1375820-9
10	1.020 25.91	1-1375820-0
11	1.120 28.45	1-1375820-1
12	1.220 30.99	1-1375820-2
13	1.320 33.53	1-1375820-3
14	1.420 36.07	1-1375820-4
15	1.520 38.61	1-1375820-5

No. of Pos.	Dim. A	Part Numbers
16	1.620 41.15	1-1375820-6
17	1.720 43.69	1-1375820-7
18	1.820 46.23	1-1375820-8
19	1.920 48.77	1-1375820-9
20	2.020 51.31	2-1375820-0
21	2.120 53.85	2-1375820-1
22	2.220 56.39	2-1375820-2
23	2.320 58.93	2-1375820-3
24	2.420 61.47	2-1375820-4
25	2.520 64.01	2-1375820-5
26	2.620 66.55	2-1375820-6
27	2.720 69.09	2-1375820-7
28	2.820 71.63	2-1375820-8



\*Housings without polarizing tabs may be manufactured upon request. Minimums may apply. Contact product engineering or product manager for details.



## CST-100 II Shrouded Headers—Straight and Right-Angle

### Material and Finish

**Housing**—UL94V-0 rated, polyester, black

**Posts**—Copper alloy, tin plated, or .000030 [0.00076] 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 with .000015 [0.00038] gold plated post are available upon request. Minimums may apply.
  3. Gold headers are duplex plated, gold on mating end of post and tin on the solder tail.

For mateability options, see matrix on pages 5 and 6.

For mating half visuals, see page 23.

### Header 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 with pegs would be:

Base number **644893** plus prefix-and-suffix **4- -0**

The correct ordering number is **4-644893-0**

All part numbers are the RoHS equivalent version. Example:

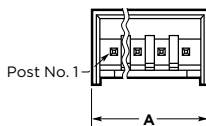
No. of Pos.	Lead Free RoHS Prefix/Suffix
2	3-644893-2
	thru
14	4-644893-4

See page 8 for an explanation of RoHS lead free equivalents.

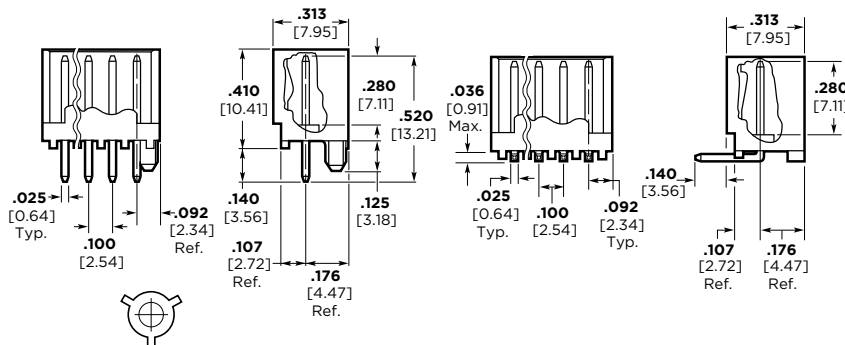
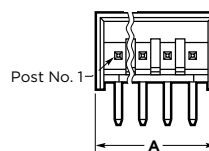
**Note:** All RoHS equivalent part numbers may not be available upon catalog release. If the number you need is not available, please contact Product Engineering to expedite your request.

**Note:** CST-100 II shrouded headers only mate with CST-100 II housings. All the MTA-100 headers except the MTA-100 shrouded headers mate with CST-100 II housings.

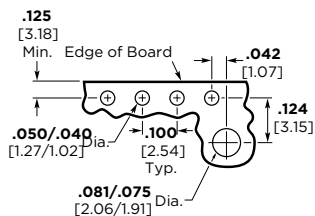
### Straight Post (.025 [0.64] Square)



### Right-Angle (.025 [0.64] Square)



### Polarized Retention Peg



**Note:** Consult Product Drawing for details on placing headers onto PC boards.

### Recommended Mounting Hole Pattern for .062 [1.57] Thk. PC Board (Solder Side of Board Shown)

### Recommended Mounting Hole Pattern for .062 [1.57] Thk. PC Board (Solder Side of Board Shown)

### Base Part Numbers

Straight Posts				Right-Angle Posts Without Pegs Only	
With Pegs		Without Pegs		Header Part Nos.	No. of Posts/RoHS Equiv.
Header Part Nos.	No. of Posts/RoHS Equiv.	Header Part Nos.	No. of Posts/RoHS Equiv.		
<b>Standard UL94V-0, Tin Plated</b>					
644893	32-44	644892	32-44	644894	32-44
<b>Standard UL94V-0, .000030 [0.00076] Gold Plated</b>					
644897	32-44	644896	32-44	644898	32-44

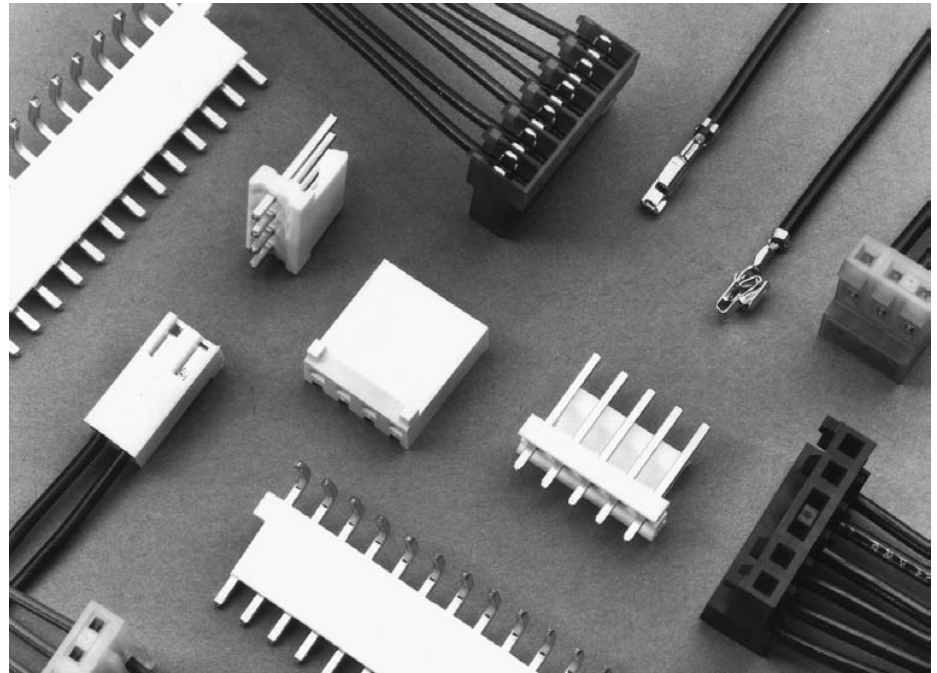
### Header Length

No. of Circuits	Dim. A	Prefix/Suffix	No. of Circuits	Dim. A	Prefix/Suffix	No. of Circuits	Dim. A	Prefix/Suffix
2	.284 7.21	3- -2	5	.584 14.83	3- -5	8	.884 22.45	3- -8
3	.384 9.75	3- -3	6	.684 17.37	3- -6	9	.984 24.99	3- -9
4	.484 12.29	3- -4	7	.784 19.91	3- -7	10	1.084 27.53	4- -0

### .156 [3.96] Centerline MTA-156 IDC Connectors and Headers

#### PRODUCT FACTS

- Connectors and headers for 2 through 24 positions; wire sizes of 18, 20, 22, 24 and 26 AWG [0.9–0.12 mm<sup>2</sup>]
- Connectors and headers, except shrouded headers, are end-to-end stackable
- Posted connectors for 2,3, 4, 6, 9, 12, 15 and 24 positions
- Card edge connectors for 3, 6, 9, 12, 15, 18 and 20 through 24 positions
- Connectors preloaded with IDC contacts
- All contacts are slotted for insulation displacement (IDC) termination technique
- Connector styles include both closed end and feedthru, with and without locking ramps and polarizing tabs
- Molded ribs on housing do not allow reverse mating
- Contacts are lubricated for fretting corrosion protection
- Benefits derived from the MTA-156 system include increases 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, File No. LR7189



MTA-156 connectors accept discrete and ribbon cable wire sizes ranging from 18–26 AWG [0.9–0.12 mm<sup>2</sup>] with maximum insulation outside diameter .095 [2.41] for single wire and .070 [1.78] for mass termination of wires. Tin plated solid, fused stranded or stranded (7, 16, and 19 strands) wire with PVC insulation can be used on 18 AWG [0.8–0.9 mm<sup>2</sup>] MTA-156 connectors; 7, 10, and 19 stranded wire on 20 AWG [0.5–0.6 mm<sup>2</sup>] MTA-156 connectors; and 7 and 19 stranded wire on 22–26 AWG [0.4–0.12 mm<sup>2</sup>] MTA-156 connectors.

Only one wire to be terminated into an IDC contact slot.

Mass termination of wire provides the lowest applied cost because it drastically reduces the labor content of virtually any cable or harness assembly required.

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

A full line of .156 [3.96] centerline headers completes the system. Headers are available with straight or right-angle posts, in flat friction lock and shrouded styles. Headers are available in 2 through 24 positions.

Note: Refer to page 52 for approved wire listings.

#### Performance Data\*

**Voltage Rating**—600 vac

**Current Rating**—7 amp max. for MTA-156 Connector

**Low-Level Resistance**—3.0 mΩ max. initial

**Dielectric Withstanding Voltage**—2200 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.

#### Technical Documents Product Specification

108-1051 MTA-156 Connectors

#### Application Specifications

114-1020 MTA-156 Connectors, Posted Connectors and Card Edge Connectors

114-1032 MTA-156 Ribbon Cable Assembly

## MTA-156 Connector/Header Mateability Guide

This matrix has been prepared to assist you, our customer, in defining the correct mating halves for the MTA-156 header and connector combination. Where a “Y” is indicated the combination is a valid mating pair. Where an “N” is indicated the combination is not acceptable for mating.

### Matrix for Tin Plated Part Numbers

		Headers																						
		640383	640384	640385	640387	640388	640389	640445	644611	644613	644615	644617	644749	644750	644751	644752	644753	644754	644755	647123	647125	647127	647646	744017
Connectors	640426	Y	Y	Y	Y	N	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y
	640427	Y	Y	Y	N	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y
	640428	Y	Y	Y	N	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y
	640429	Y	Y	Y	N	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y
	640430	Y	Y	Y	N	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y
	640431	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y
	640432	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y
	640433	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y
	640434	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y
	640435	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y
	640472	Y	Y	Y	N	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y
	640473	Y	Y	Y	N	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y
	640474	Y	Y	Y	N	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y
	640477	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y
	640480	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y
	640595	Y	Y	Y	N	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y
	640599	Y	Y	Y	N	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y
	640600	Y	Y	Y	N	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y
	640601	Y	Y	Y	N	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y
	640602	Y	Y	Y	N	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y
	640604	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y
	640605	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y
	640606	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y
	640607	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y
	640608	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y
	641302	Y	Y	Y	N	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y
	643817	Y	Y	Y	N	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y
	643818	Y	Y	Y	N	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y
	643819	Y	Y	Y	N	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y
	643820	Y	Y	Y	N	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y
	643821	Y	Y	Y	N	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y
	644082	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y
	644461	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y
	644462	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y
	644463	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y
	644464	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y
	644465	Y	Y	Y	N	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y
	644466	Y	Y	Y	N	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y
	644467	Y	Y	Y	N	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y
	644468	Y	Y	Y	N	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y
	644469	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y
	644470	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y
	644471	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y
	644501	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y
	644502	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y
644566	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	
644570	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	
644783	Y	Y	Y	N	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	
644791	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	
644860	Y	Y	Y	N	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	
644878	Y	Y	Y	N	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	

# MTA, CST-100 II and SL-156 Connectors

## MTA-156 Connector/Header Mateability Guide (continued)

This matrix has been prepared to assist you, our customer, in defining the correct mating halves for the MTA-156 header and connector combination. Where a “Y” is indicated the combination is a valid mating pair. Where an “N” is indicated the combination is not acceptable for mating.

**Matrix for  
.000030  
[0.00076]  
Gold Plated  
Part Numbers**

		Headers												
		641202	641203	641204	641207	641208	641209	641210	644631	644633	644756	644759	644760	644761
<b>Connectors</b>	641217	Y	Y	Y	N	Y	Y	Y	Y	Y	Y	Y	Y	Y
	641218	Y	Y	Y	N	Y	Y	Y	Y	Y	Y	Y	Y	Y
	641219	Y	Y	Y	N	Y	Y	Y	Y	Y	Y	Y	Y	Y
	641220	Y	Y	Y	N	Y	Y	Y	Y	Y	Y	Y	Y	Y
	641222	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y
	641223	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y
	641224	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y
	641226	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y
	641227	Y	Y	Y	N	Y	Y	Y	Y	Y	Y	Y	Y	Y
	641228	Y	Y	Y	N	Y	Y	Y	Y	Y	Y	Y	Y	Y
	641229	Y	Y	Y	N	Y	Y	Y	Y	Y	Y	Y	Y	Y
	641230	Y	Y	Y	N	Y	Y	Y	Y	Y	Y	Y	Y	Y
	641235	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y
	644460	Y	Y	Y	N	Y	Y	Y	Y	Y	Y	Y	Y	Y
	644662	Y	Y	Y	N	Y	Y	Y	Y	Y	Y	Y	Y	Y
	644663	Y	Y	Y	N	Y	Y	Y	Y	Y	Y	Y	Y	Y
	644718	Y	Y	Y	N	Y	Y	Y	Y	Y	Y	Y	Y	Y
	644720	Y	Y	Y	N	Y	Y	Y	Y	Y	Y	Y	Y	Y

**Matrix for  
.000015  
[0.00038]  
Gold Plated  
Part Numbers**

		Headers							
		641113	641119	641120	641121	644766	644767	644768	644769
<b>Connectors</b>	641148	Y	Y	Y	Y	Y	Y	Y	N
	641149	Y	Y	Y	Y	Y	Y	Y	N
	641150	Y	Y	Y	Y	Y	Y	Y	N
	641151	Y	Y	Y	Y	Y	Y	Y	N
	641168	Y	Y	Y	Y	Y	Y	Y	N
	641170	Y	Y	Y	Y	Y	Y	Y	N
	641175	Y	Y	Y	Y	Y	Y	Y	Y
	644284	Y	Y	Y	Y	Y	Y	Y	N
	647478	Y	Y	Y	Y	Y	Y	Y	N
	647479	Y	Y	Y	Y	Y	Y	Y	N

## MTA-156 IDC Connectors—Closed End

### Material and Finish

**Housing**—UL94V-2 rated, nylon, see below for color; or UL94V-0 rated, nylon, black

**Contacts**—Phosphor bronze, post tin plated, .000030 [0.00076] or .000015 [0.00038] post gold plated over nickel

### Color Coding by Wire Size for UL94V-2 Connectors

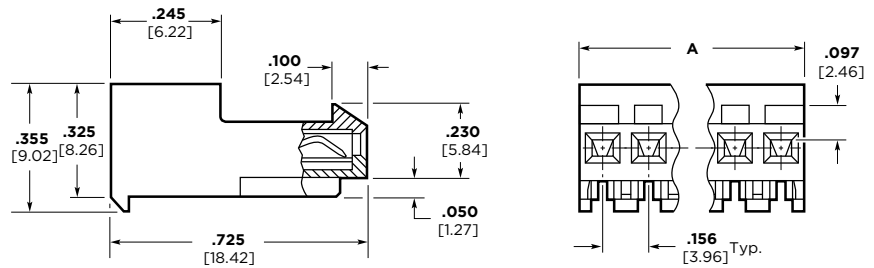
- 26 AWG**—Blue
- 24 AWG**—White
- 22 AWG**—Red
- 20 AWG**—Yellow
- 18 AWG**—Orange

All wire sizes in UL94V-0—Black

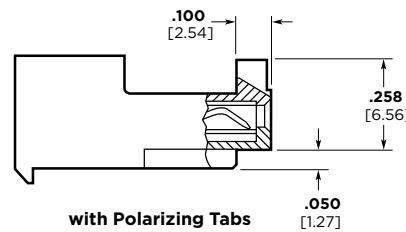
### Notes:

1. Only connectors with locking ramp and without polarizing tabs mate with posted connectors on page 38.
2. Refer to pages 52-56 for approved wire listing.
3. For strain reliefs and dust covers, see page 9.
4. For keying plugs and panel mount end caps, see page 35.
5. Other circuit sizes are available upon request. Minimums may apply.
6. Connector circuits can be molded closed for keying purposes. Minimums may apply.
7. Where no part numbers appear in the chart, parts can be made available upon request. Minimums may apply.
8. To determine connector overall length (dim. A), multiply .156 x the number of circuits. Example: .156 x 10 circuits equals 1.560 inch [39.62 mm].

### Closed End with Locking Ramp



without Polarizing Tabs

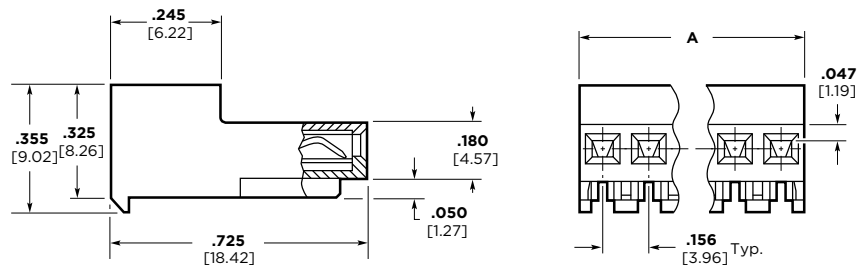


with Polarizing Tabs

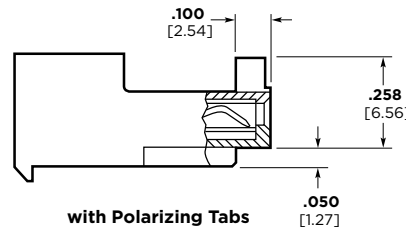
For mateability options, see matrix on pages 27 and 28.

Mating half visuals for Closed End Connectors with Locking Ramp, see pages 38 thru 41, 43, 45, and 46, (42 and 44 Front Bend Headers only).

### Closed End without Locking Ramp



without Polarizing Tabs



with Polarizing Tabs

For mateability options, see matrix on pages 27 and 28.

Mating half visuals for Closed End Connectors without Locking Ramp, see pages 39 thru 46.

## MTA-156 IDC Connectors—Closed End (continued)

### Connector Ordering Information

The “Base Part Numbers” Chart at right shows the base part number and number of circuits available for the described connectors.

Prefixes and suffixes are determined by the number of circuit positions in the connector. For example, the complete part number for a 10-position closed end connector with locking ramp and without polarizing tabs for 18 AWG wire would be:

Base number **640426** plus  
prefix-and-suffix  
**4- - 0**

The correct ordering number is  
**4-640426-0**

All part numbers **bold face** are the RoHS equivalent version. Example:

No. of Pos.	Lead Free RoHS Prefix/Suffix
2	3-640426-2
3	3-640426-3
4	3-640426-4
5	3-640426-5
6	3-640426-6
7	3-640426-7
8	3-640426-8
9	3-640426-9
10	4-640426-0
11	4-640426-1
12	4-640426-2
13	4-640426-3
14	4-640426-4
15	4-640426-5
16	4-640426-6
17	4-640426-7
18	4-640426-8
19	4-640426-9
20	5-640426-0
21	5-640426-1
22	5-640426-2
23	5-640426-3
24	5-640426-4

**Note:** All RoHS equivalent part numbers may not be available upon catalog release. If the number you need is not available, please contact Product Engineering to expedite your request.

### Base Part Numbers

Connector Type & Wire Size	Closed End with Locking Ramp				Closed End without Locking Ramp			
	Without Tabs		With Tabs		Without Tabs		With Tabs	
	Connector Part Nos.	RoHS Equiv.	Connector Part Nos.	RoHS Equiv.	Connector Part Nos.	RoHS Equiv.	Connector Part Nos.	RoHS Equiv.
<b>Standard UL94V-2, Tin Plated</b>								
<b>18 AWG</b> 0.8-0.9 mm <sup>2</sup>	640426	<b>32-54</b>	643817	<b>32-54</b>	640431	<b>32-54</b>	644461 <sup>1</sup>	<b>32-44</b>
<b>20 AWG</b> 0.5-0.6 mm <sup>2</sup>	640427	<b>32-54</b>	643818	<b>32-54</b>	640432	<b>32-54</b>	644462 <sup>1</sup>	<b>32-44</b>
<b>22 AWG</b> 0.3-0.4 mm <sup>2</sup>	640428	<b>32-54</b>	643819	<b>32-54</b>	640433	<b>32-54</b>	644463 <sup>1</sup>	<b>32-44</b>
<b>24 AWG</b> 0.2 mm <sup>2</sup>	640429	<b>32-54</b>	643820	<b>32-54</b>	640434	<b>32-54</b>	644464 <sup>1</sup>	<b>32-44</b>
<b>26 AWG</b> 0.12-0.15 mm <sup>2</sup>	640430	<b>32-54</b>	643821	<b>32-54</b>	640435	<b>32-54</b>	—	—
<b>Tape Mounted on Reel UL94V-2, Tin Plated</b>								
<b>18 AWG</b> 0.8-0.9 mm <sup>2</sup>	640472	<b>32-54</b>	644878	<b>32-54</b>	640477	<b>32-54</b>	—	—
<b>20 AWG</b> 0.5-0.6 mm <sup>2</sup>	640473	<b>32-54</b>	—	—	—	—	—	—
<b>22 AWG</b> 0.3-0.4 mm <sup>2</sup>	640474	<b>32-54</b>	644783	<b>32-54</b>	—	—	644791 <sup>1</sup>	<b>32-44</b>
<b>24 AWG</b> 0.2 mm <sup>2</sup>	—	—	—	—	640480	<b>32-54</b>	—	—
<b>26 AWG</b> 0.12-0.15 mm <sup>2</sup>	—	—	—	—	—	—	—	—
<b>Standard UL94V-2, .000030 [0.00076] Gold Plated</b>								
<b>18 AWG</b> 0.8-0.9 mm <sup>2</sup>	641217	<b>32-54</b>	644460 <sup>1</sup>	<b>32-42</b>	641222	<b>32-54</b>	—	—
<b>20 AWG</b> 0.5-0.6 mm <sup>2</sup>	641218	<b>32-54</b>	644663 <sup>1</sup>	<b>32-42</b>	641223	<b>32-54</b>	—	—
<b>22 AWG</b> 0.3-0.4 mm <sup>2</sup>	641219	<b>32-54</b>	644662 <sup>1</sup>	<b>32-42</b>	641224	<b>32-54</b>	644687 <sup>1</sup>	<b>32-44</b>
<b>24 AWG</b> 0.2 mm <sup>2</sup>	641220	<b>32-54</b>	—	—	641225	<b>32-54</b>	—	—
<b>26 AWG</b> 0.12-0.15 mm <sup>2</sup>	641221	<b>32-54</b>	—	—	641226	<b>32-54</b>	—	—
<b>Standard UL94V-2, .000015 [0.00038] Gold Plated</b>								
<b>18 AWG</b> 0.8-0.9 mm <sup>2</sup>	641148	<b>32-54</b>	644284 <sup>1</sup>	<b>32-42</b>	641153	<b>32-54</b>	—	—
<b>20 AWG</b> 0.5-0.6 mm <sup>2</sup>	641149	<b>32-54</b>	—	—	641154	<b>32-54</b>	—	—
<b>22 AWG</b> 0.3-0.4 mm <sup>2</sup>	641150	<b>32-54</b>	647478 <sup>1</sup>	<b>32-42</b>	641155	<b>32-54</b>	—	—
<b>24 AWG</b> 0.2 mm <sup>2</sup>	641151	<b>32-54</b>	—	—	641156	<b>32-54</b>	—	—
<b>26 AWG</b> 0.12-0.15 mm <sup>2</sup>	641152	<b>32-54</b>	—	—	641157	<b>32-54</b>	—	—
<b>Standard UL94V-0, Tin Plated (Black in color)</b>								
<b>18 AWG</b> 0.8-0.9 mm <sup>2</sup>	644860	<b>32-42</b>	—	—	644502	<b>32-42</b>	644082 <sup>1</sup>	<b>32-42</b>
<b>22 AWG</b> 0.3-0.4 mm <sup>2</sup>	—	—	—	—	644501	<b>32-42</b>	644566 <sup>1</sup>	<b>32-42</b>

<sup>1</sup> Other circuit sizes are available upon request. Minimums may apply.

**Note:** Blocked circuit configurations are available upon request. Contact product engineer or product manager for details. Minimums may apply.

## MTA-156 IDC Connectors—Feed-Thru

### Material and Finish

**Housing**—UL94V-2 rated, nylon, see below for color; or UL94V-0 rated, nylon, black

**Contacts**—Phosphor bronze, post tin plated, .000030 [0.00076] or .000015 [0.00038] post gold-plated over nickel

### Color Coding by Wire Size for UL94V-2 Connectors

**26 AWG**—Blue

**24 AWG**—White

**22 AWG**—Red

**20 AWG**—Yellow

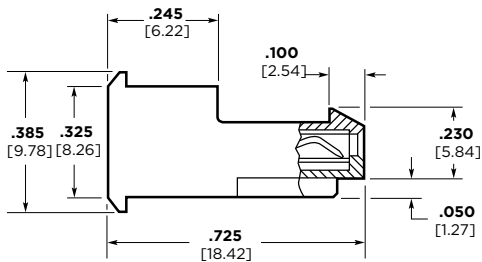
**18 AWG**—Orange

**All wire sizes in UL94V-0**—Black

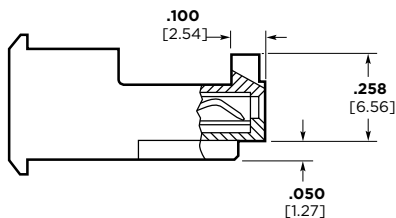
### Notes:

1. Only connectors with locking ramp and without polarizing tabs mate with posted connectors on page 38.
2. Refer to pages 52-56 for approved wire listing.
3. For strain reliefs and dust covers, see page 33 and 34.
4. For keying plugs and panel mount end caps, see page 35.
5. Other circuit sizes are available upon request. Minimums may apply.
6. Connector circuits can be molded closed for keying purposes. Minimums may apply.
7. Where no part numbers appear in the chart, parts can be made available upon request. Minimums may apply.
8. To determine connector overall length (dim. A), multiply .156 x the number of circuits. Example: .156 x 10 circuits equals 1.560 inch [39.62 mm].

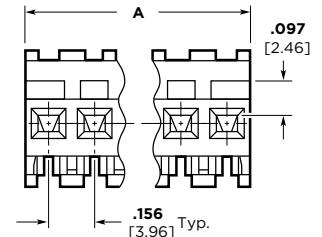
### Feed-Thru with Locking Ramp



without Polarizing Tabs



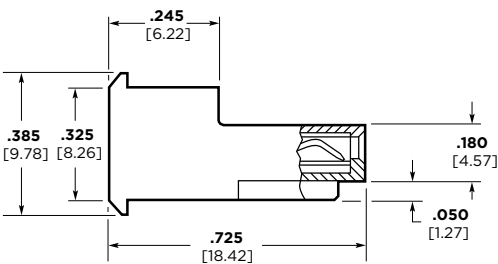
with Polarizing Tabs



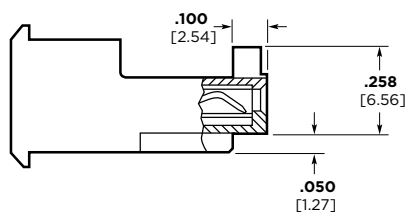
For mateability options, see matrix on pages 27 and 28.

Mating half visuals for Closed End Connectors with Locking Ramp, see pages 38 thru 41, 43, 45, and 46, (42 and 44 Front Bend Headers only).

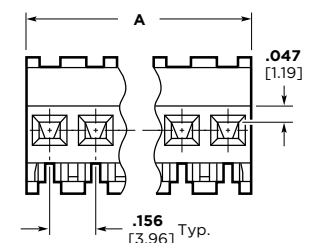
### Feed-Thru without Locking Ramp



without Polarizing Tabs



with Polarizing Tabs



For mateability options, see matrix on pages 27 and 28.

Mating half visuals for Closed End Connectors without Locking Ramp, see pages 39 thru 46.

## MTA-156 IDC Connectors—Feed-Thru (continued)

### Connector Ordering Information

The “Base Part Numbers” Chart at right shows the base part number and number of circuits available for the described connectors.

Prefixes and suffixes are determined by the number of circuit positions in the connector. For example, the complete part number for a 10-position feed-thru connector with locking ramp and without polarizing tabs for 18 AWG wire would be:

Base number **640599** plus  
prefix-and-suffix  
**4- -0**

The correct ordering number is  
**4-640599-0**

All part numbers **bold face** are the RoHS equivalent version. Example:

No. of Pos.	Lead Free RoHS Prefix/Suffix
2	3-640599-2
3	3-640599-3
4	3-640599-4
5	3-640599-5
6	3-640599-6
7	3-640599-7
8	3-640599-8
9	3-640599-9
10	4-640599-0
11	4-640599-1
12	4-640599-2
13	4-640599-3
14	4-640599-4
15	4-640599-5
16	4-640599-6
17	4-640599-7
18	4-640599-8
19	4-640599-9
20	5-640599-0
21	5-640599-1
22	5-640599-2
23	5-640599-3
24	5-640599-4

**Note:** All RoHS equivalent part numbers may not be available upon catalog release. If the number you need is not available, please contact Product Engineering to expedite your request.

### Base Part Numbers

Connector Type & Wire Size	Feed-Thru with Locking Ramp				Feed-Thru without Locking Ramp			
	Without Tabs		With Tabs		Without Tabs		With Tabs	
	Connector Part Nos.	RoHS Equiv.	Connector Part Nos.	RoHS Equiv.	Connector Part Nos.	RoHS Equiv.	Connector Part Nos.	RoHS Equiv.
<b>Standard UL94V-2, Tin Plated</b>								
<b>18 AWG</b> 0.8-0.9 mm <sup>2</sup>	640599	<b>32-54</b>	644465 <sup>1</sup>	<b>32-44</b>	640604	<b>32-54</b>	644469 <sup>1</sup>	<b>32-44</b>
<b>20 AWG</b> 0.5-0.6 mm <sup>2</sup>	640600	<b>32-54</b>	644466 <sup>1</sup>	<b>32-44</b>	640605	<b>32-54</b>	644470 <sup>1</sup>	<b>32-44</b>
<b>22 AWG</b> 0.3-0.4 mm <sup>2</sup>	640601	<b>32-54</b>	644467 <sup>1</sup>	<b>32-44</b>	640606	<b>32-54</b>	644471 <sup>1</sup>	<b>32-44</b>
<b>24 AWG</b> 0.2 mm <sup>2</sup>	640602	<b>32-54</b>	644468 <sup>1</sup>	<b>32-44</b>	640607	<b>32-54</b>	—	—
<b>26 AWG</b> 0.12-0.15 mm <sup>2</sup>	640595	<b>32-54</b>	—	—	640608	<b>32-54</b>	—	—
<b>Tape Mounted on Reel UL94V-2, Tin Plated</b>								
<b>18 AWG</b> 0.8-0.9 mm <sup>2</sup>	641302	<b>32-54</b>	—	—	—	—	—	—
<b>20 AWG</b> 0.5-0.6 mm <sup>2</sup>	—	—	—	—	—	—	—	—
<b>22 AWG</b> 0.3-0.4 mm <sup>2</sup>	—	—	—	—	—	—	—	—
<b>24 AWG</b> 0.2 mm <sup>2</sup>	—	—	—	—	—	—	—	—
<b>26 AWG</b> 0.12-0.15 mm <sup>2</sup>	—	—	—	—	—	—	—	—
<b>Standard UL94V-2, .00003 [.00076] Gold Plated</b>								
<b>18 AWG</b> 0.8-0.9 mm <sup>2</sup>	—	—	644718 <sup>1</sup>	<b>32-44</b>	641232	<b>32-54</b>	—	—
<b>20 AWG</b> 0.5-0.6 mm <sup>2</sup>	—	—	—	—	641233	<b>32-54</b>	—	—
<b>22 AWG</b> 0.3-0.4 mm <sup>2</sup>	—	—	644720 <sup>1</sup>	<b>32-44</b>	641234	<b>32-54</b>	—	—
<b>24 AWG</b> 0.2 mm <sup>2</sup>	—	—	—	—	641235	<b>32-54</b>	—	—
<b>26 AWG</b> 0.12-0.15 mm <sup>2</sup>	641231	<b>32-54</b>	—	—	641236	<b>32-54</b>	—	—
<b>Standard UL94V-2, .000015 [.00038] Gold Plated</b>								
<b>18 AWG</b> 0.8-0.9 mm <sup>2</sup>	641168	<b>32-54</b>	647479 <sup>1</sup>	<b>32-42</b>	—	—	—	—
<b>20 AWG</b> 0.5-0.6 mm <sup>2</sup>	—	—	—	—	—	—	—	—
<b>22 AWG</b> 0.3-0.4 mm <sup>2</sup>	641170	<b>32-54</b>	647496 <sup>1</sup>	<b>32-42</b>	641175	<b>32-54</b>	—	—
<b>24 AWG</b> 0.2 mm <sup>2</sup>	—	—	—	—	—	—	—	—
<b>26 AWG</b> 0.12-0.15 mm <sup>2</sup>	—	—	—	—	—	—	—	—
<b>Standard UL94V-0, Tin Plated</b>								
<b>18 AWG</b> 0.8-0.9 mm <sup>2</sup>	—	—	—	—	—	—	644570 <sup>1</sup>	<b>32-42</b>
<b>22 AWG</b> 0.3-0.4 mm <sup>2</sup>	—	—	—	—	—	—	—	—

<sup>1</sup> Other circuit sizes are available upon request. Minimums may apply.

**Note:** Blocked circuit configurations are available upon request. Contact product engineer or product manager for details. Minimums may apply.



## MTA-156 Connector Accessories

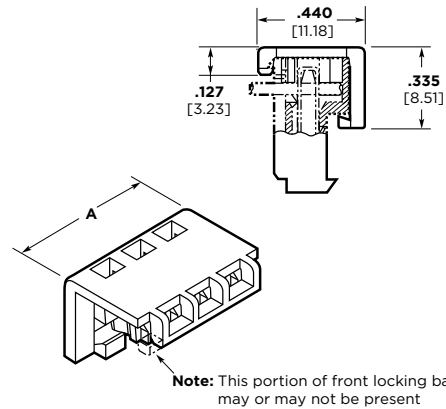
### Covers

#### Material (RoHS Compliant)

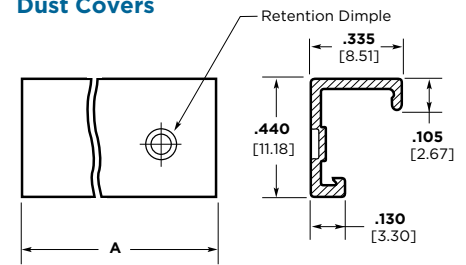
**Strain Relief Covers**—UL94V-2 rated, nylon, white

**Dust Covers**—UL94V-0 rated, polyester, white

#### Strain Relief Covers



#### Dust Covers



#### Base Part Numbers

Closed End			
Strain Relief Covers		Dust Covers	
Cover Part Nos.	No. of Circuits	Cover Part Nos.	No. of Circuits
643067	2-24	640551	2-24

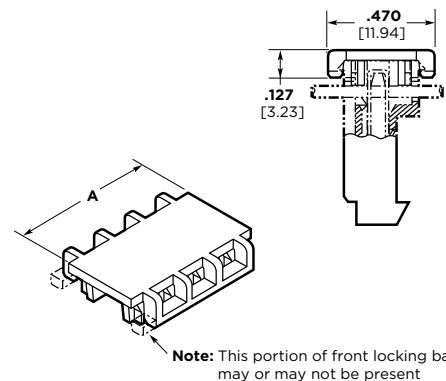
### Feed-Thru Covers

#### Material (RoHS Compliant)

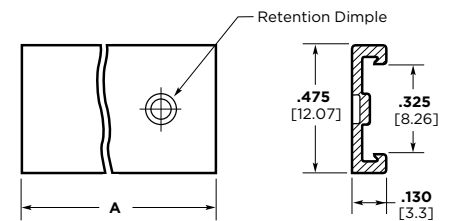
**Strain Relief Cover**—UL94V-2 rated, nylon, white

**Dust Covers**—UL94V-0 rated, polyester, white

#### Strain Relief Covers



#### Dust Covers



#### Base Part Numbers

Feed-Thru			
Strain Relief Covers		Dust Covers	
Cover Part Nos.	No. of Circuits	Cover Part Nos.	No. of Circuits
643071	2-24	640643	2-24

### Cover Ordering Information

The “Base Part Numbers” Chart at right shows the base part number and number of circuits available for the described cover.

Prefixes and suffixes are determined by the number of circuit positions in the cover. For example, the complete part number for a 10-position closed-end strain relief cover would be:

Base number **643067** plus  
prefix-and-suffix  
**1- -0**

The correct ordering number is  
**1-643067-0**

#### Cover Length

No. of Circuits	Dim. A	Prefix/Suffix	No. of Circuits	Dim. A	Prefix/Suffix	No. of Circuits	Dim. A	Prefix/Suffix
2	.312 7.92	-2	10	1.560 39.62	1- -0	18	2.808 71.32	1- -8
3	.468 11.89	-3	11	1.716 43.59	1- -1	19	2.964 75.29	1- -9
4	.624 15.85	-4	12	1.872 47.55	1- -2	20	3.120 79.25	2- -0
5	.780 19.81	-5	13	2.028 51.51	1- -3	21	3.276 83.21	2- -1
6	.936 23.77	-6	14	2.184 55.47	1- -4	22	3.432 87.17	2- -2
7	1.092 27.74	-7	15	2.340 59.44	1- -5	23	3.588 91.14	2- -3
8	1.248 31.7	-8	16	2.496 63.4	1- -6	24	3.744 95.1	2- -4
9	1.404 35.66	-9	17	2.652 67.36	1- -7			

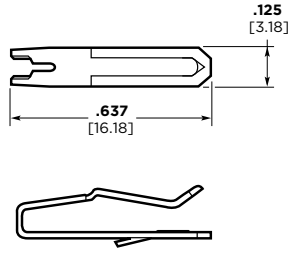
## MTA-156 Connector Accessories (continued)

### Replacement IDC Contacts

#### Material and Finish

**Contacts**—Phosphor bronze, post tin plated, .000030 [0.00076] or .000015 [0.00038] post gold plated over nickel

**Notes:** TE does not recommend terminating an MTA contact more than one time. Use replacement contacts when required for field repairs or wire changes.

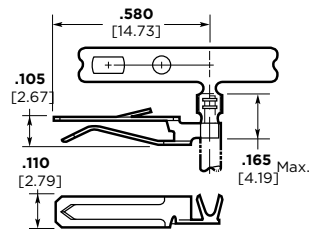


Wire Size		Part Numbers		
AWG	mm <sup>2</sup>		.000030 [0.00076]	.000015 [0.00038]
		Tin Plated	Gold Plated	Gold Plated
18	0.8-0.9	640631-3	641143-4	641143-3
20	0.5-0.6	640632-3	641144-4	641144-3
22	0.3-0.4	640633-3	641145-4	641145-3
24	0.2	640634-3	641146-4	641146-3
26	0.12-0.15	640635-3	641147-4	641147-3

### Crimp Snap-in Contacts

#### Material and Finish

**Contacts**—Phosphor bronze, tin plated



Wire Size		Part Nos.	
AWG	mm <sup>2</sup>	Loose Piece*	Strip**
26-22	.12-0.3	640557-3	640556-3
22-18	0.3-0.9	640559-3	640558-3

\*Hand Tool No. 59837-1 (408-6528)

\*\*AMP-O-ELECTRIC Model "G" Termination Machine (Request Catalog 65828)

**Note:** Requires applicator. For part number, call Technical Support.

Special applications for crimp snap-in contacts are:

1. Double wire per contact
2. Coax or shielded wire
3. Mixed wire size in same connector

**Note:** Only one crimp snap-in contact per connector.

## MTA-156 Connector Accessories (continued)

### Keying Plugs

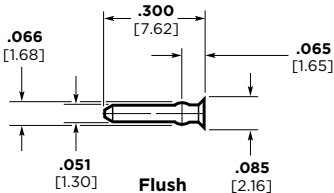
#### Material (RoHS Compliant)

UL94V-2 rated, nylon, natural color

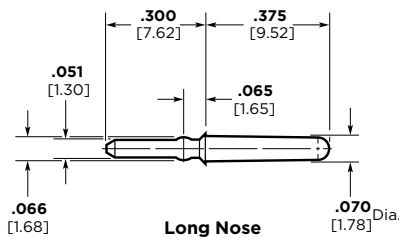
**Note:** Removal of contact is not necessary when using keying plug.

### Loose Piece

#### Part No. 640629-1 (Flush) Used with keyed headers

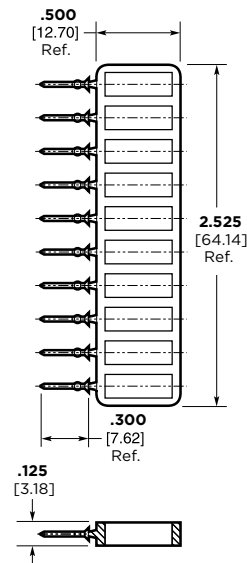


#### Part No. 640630-1 (Long Nose) Used with staked post



### On Carrier Strip

#### Part No. 641623-1 (Flush) (10 per strip)



### Panel Mount End Caps

#### Part No. 641440-1

#### Part No. 641533-1

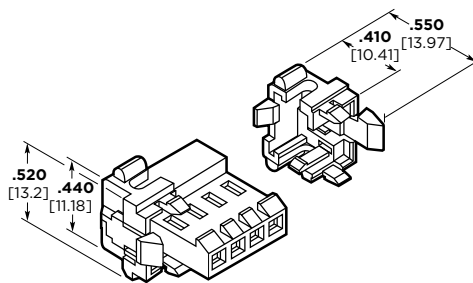
#### (2-position only)

#### Material (RoHS Compliant)

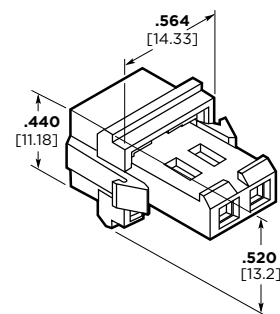
UL94V-2 rated, nylon, black

#### Notes:

- Both left-hand and right-hand end caps are attached by a connecting tab. This tab must be broken off prior to installing on connector.
- For best results attach panel mount end caps to the MTA-156 (IDC) connectors shown on pages 29 thru 32. While not preferred, panel mount end caps can be attached to MTA-156 (IDC) posted connector on page 38.

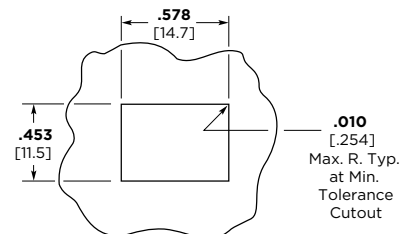
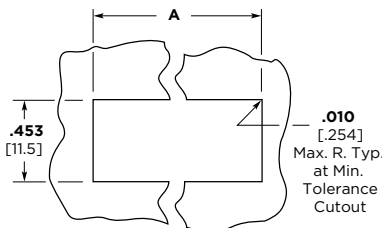


3- thru 24-Position  
641440-1  
See Note 1



Two-Position Only  
641533-1

No. of Pos.	Dim. A
3	.736 18.69
4	.892 22.66
6	1.204 30.58
9	1.672 42.47
12	2.140 54.36
15	2.608 66.24
24	4.012 101.9



Recommended Panel Cutout  
(Recommended Panel Thickness .062 [1.57] to .067 [1.70] max.)

# MTA, CST-100 II and SL-156 Connectors

## MTA-156 Posted Connector/Connector Mateability Guide

This matrix has been prepared to assist you, our customer, in defining the correct mating halves for the MTA-156 posted connector and connector combination. Where a “Y” is indicated the combination is a valid mating pair. Where an “N” is indicated the combination is not acceptable for mating.

### Matrix for Tin Plated Part Numbers

#### Posted Connectors

	641435	641436	641437	641438	641439	641522	641523	641524	641525
640426	Y	Y	Y	Y	Y	Y	Y	Y	Y
640427	Y	Y	Y	Y	Y	Y	Y	Y	Y
640428	Y	Y	Y	Y	Y	Y	Y	Y	Y
640429	Y	Y	Y	Y	Y	Y	Y	Y	Y
640430	Y	Y	Y	Y	Y	Y	Y	Y	Y
640431	N	N	N	N	N	N	N	N	N
640432	N	N	N	N	N	N	N	N	N
640433	N	N	N	N	N	N	N	N	N
640434	N	N	N	N	N	N	N	N	N
640435	N	N	N	N	N	N	N	N	N
640472	Y	Y	Y	Y	Y	Y	Y	Y	Y
640473	Y	Y	Y	Y	Y	Y	Y	Y	Y
640474	Y	Y	Y	Y	Y	Y	Y	Y	Y
640477	N	N	N	N	N	N	N	N	N
640480	N	N	N	N	N	N	N	N	N
640595	Y	Y	Y	Y	Y	Y	Y	Y	Y
640599	Y	Y	Y	Y	Y	Y	Y	Y	Y
640600	Y	Y	Y	Y	Y	Y	Y	Y	Y
640601	Y	Y	Y	Y	Y	Y	Y	Y	Y
640602	Y	Y	Y	Y	Y	Y	Y	Y	Y
640604	N	N	N	N	N	N	N	N	N
640605	N	N	N	N	N	N	N	N	N
640606	N	N	N	N	N	N	N	N	N
640607	N	N	N	N	N	N	N	N	N
640608	N	N	N	N	N	N	N	N	N
641302	Y	Y	Y	Y	Y	Y	Y	Y	Y
643817	N	N	N	N	N	N	N	N	N
643818	N	N	N	N	N	N	N	N	N
643819	N	N	N	N	N	N	N	N	N
643820	N	N	N	N	N	N	N	N	N
643821	N	N	N	N	N	N	N	N	N
644082	N	N	N	N	N	N	N	N	N
644461	N	N	N	N	N	N	N	N	N
644462	N	N	N	N	N	N	N	N	N
644463	N	N	N	N	N	N	N	N	N
644464	N	N	N	N	N	N	N	N	N
644465	N	N	N	N	N	N	N	N	N
644466	N	N	N	N	N	N	N	N	N
644467	N	N	N	N	N	N	N	N	N
644468	N	N	N	N	N	N	N	N	N
644469	N	N	N	N	N	N	N	N	N
644470	N	N	N	N	N	N	N	N	N
644471	N	N	N	N	N	N	N	N	N
644501	N	N	N	N	N	N	N	N	N
644502	N	N	N	N	N	N	N	N	N
644566	N	N	N	N	N	N	N	N	N
644570	N	N	N	N	N	N	N	N	N
644783	N	N	N	N	N	N	N	N	N
644791	N	N	N	N	N	N	N	N	N
644860	Y	Y	Y	Y	Y	Y	Y	Y	Y
644878	N	N	N	N	N	N	N	N	N

Connectors

# MTA, CST-100 II and SL-156 Connectors

## MTA-156 Posted Connector/Connector Mateability Guide (continued)

This matrix has been prepared to assist you, our customer, in defining the correct mating halves for the MTA-156 posted connector and connector combination. Where a “Y” is indicated the combination is a valid mating pair. Where an “N” is indicated the combination is not acceptable for mating.

**Matrix for  
.000030  
[0.00076]  
Gold Plated  
Part Numbers**

		Posted Connectors			
		644807	644809	644812	644814
Connectors	641217	Y	Y	Y	Y
	641218	Y	Y	Y	Y
	641219	Y	Y	Y	Y
	641220	Y	Y	Y	Y
	641222	N	N	N	N
	641223	N	N	N	N
	641224	N	N	N	N
	641226	N	N	N	N
	641227	Y	Y	Y	Y
	641228	Y	Y	Y	Y
	641229	Y	Y	Y	Y
	641230	Y	Y	Y	Y
	641235	N	N	N	N
	644460	N	N	N	N
	644662	N	N	N	N
	644663	N	N	N	N
	644718	N	N	N	N
	644720	N	N	N	N

**Matrix for  
.000015  
[0.00038]  
Gold Plated  
Part Numbers**

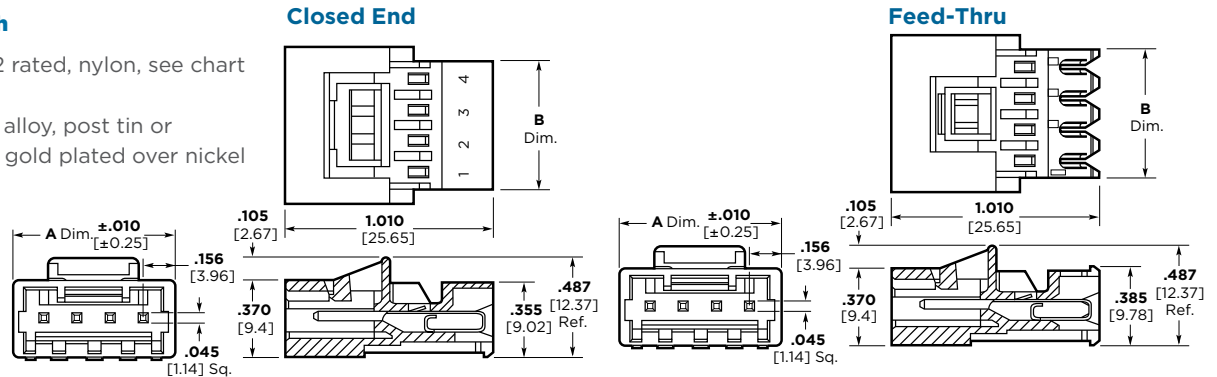
		Posted Connectors		
		643995	647476	647481
Connectors	641148	Y	Y	Y
	641149	Y	Y	Y
	641150	Y	Y	Y
	641151	Y	Y	Y
	641168	Y	Y	Y
	641170	Y	Y	Y
	641175	N	N	N
	644284	N	N	N
	647478	N	N	N
	647479	N	N	N

## MTA-156 IDC Posted Connectors (Wire-to-Wire)—Closed End, Feed-Thru

### Material and Finish

**Housing**—UL94V-2 rated, nylon, see chart for color

**Contacts**—Copper alloy, post tin or .000030 [.00076] gold plated over nickel



- Note:** 1. Mating half visuals — pages 29 & 32.  
2. Strain relief & dust covers — pages 33 & 34.  
3. Approved wire listing — page 52.

### Connector Ordering Information

The “Base Part Numbers” Chart at right shows the base part number and number of circuits available for the described connectors.

Prefixes and suffixes are determined by the number of circuit positions in the connector. For example, the complete part number for a 12-position closed end connector for 18 AWG wire would be:

Base number **641435** plus  
prefix-and-suffix  
**4- -2**

The correct ordering number is  
**4-641435-2**

See page 8 for an explanation of RoHS lead free equivalents.

**Note:** All RoHS equivalent part numbers may not be available upon catalog release. If the number you need is not available, please contact Product Engineering to expedite your request.

### Color Coding by Wire Size for UL94V-2 Connectors

- 18 AWG**—Orange
- 20 AWG**—Yellow
- 22 AWG**—Red
- 24 AWG**—White
- 26 AWG**—Blue

### Performance Data

- Voltage Rating**—600 vac
- Current Rating**—7 amp max.
- Low-Level Resistance**—7 mΩ max. initial
- Dielectric Withstanding Voltage**—1500 vac/1 min.
- Insulation Resistance**—5000 MΩ min. initial
- Operating Temperature**—-55° C to +105° C

### Base Part Numbers

Connector Type & Wire Size	Closed End Connector		Feed-Thru Connector	
	Part Nos.	RoHS Equiv.	Part Nos.	RoHS Equiv.
<b>Standard UL 94V-2, Tin Plated</b>				
<b>18 AWG</b> 0.8-0.9 mm <sup>2</sup>	641435	<b>32,33,34,36,39,42,45,54</b>	641522	<b>32,33,34,36,39,42,45,54</b>
<b>20 AWG</b> 0.5-0.6 mm <sup>2</sup>	641436	<b>32,33,34,36,39,42,45,54</b>	641523	<b>32,33,34,36,39,42,45,54</b>
<b>22 AWG</b> 0.3-0.4 mm <sup>2</sup>	641437	<b>32,33,34,36,39,42,45,54</b>	641524	<b>32,33,34,36,39,42,45,54</b>
<b>24 AWG</b> 0.2 mm <sup>2</sup>	641438	<b>32,33,34,36,39,42,45,54</b>	641525	<b>32,33,34,36,39,42,45,54</b>
<b>26 AWG</b> 0.12-0.15 mm <sup>2</sup>	641439	<b>32,33,34,36,39,42,45,54</b>	641526	<b>32,33,34,36,39,42,45,54</b>
<b>Standard UL 94V-2, .000030 [0.00076] Gold Plated</b>				
<b>18 AWG</b> 0.8-0.9 mm <sup>2</sup>	644807	<b>32,33,34,36,39,42,45,54</b>	644812	<b>32,33,34,36,39,42,45,54</b>
<b>20 AWG</b> 0.5-0.6 mm <sup>2</sup>	— <sup>2</sup>	—	— <sup>2</sup>	—
<b>22 AWG</b> 0.3-0.4 mm <sup>2</sup>	644809	<b>32,33,34,36,39,42,45,54</b>	644814	<b>32,33,34,36,39,42,45,54</b>
<b>24 AWG</b> 0.2 mm <sup>2</sup>	— <sup>2</sup>	—	— <sup>2</sup>	—
<b>26 AWG</b> 0.12-0.15 mm <sup>2</sup>	— <sup>2</sup>	—	— <sup>2</sup>	—
<b>Standard UL 94V-2, .000015 [0.00038] Gold Plated</b>				
<b>18 AWG</b> 0.8-0.9 mm <sup>2</sup>	647476	<b>32,33,34,36,39,42,45,54</b>	647481	<b>32,33,34,36,39,42,45,54</b>
<b>22 AWG</b> 0.3-0.4 mm <sup>2</sup>	643995	<b>32,33,34,36,39,42,45,54</b>	647497	<b>32,33,34,36,39,42,45,54</b>

<sup>1</sup> MTA-156 Posted Connectors (Closed End and Feed-Thru) **will Only mate** with MTA-156 connectors with locking ramp and without polarizing tabs. They **will NOT mate** with MTA-156 Quad Connectors.

<sup>2</sup> Parts can be made available upon request. Minimums may apply.

No. of Circuits	Dim.		Suffix	No. of Circuits	Dim.		Prefix/Suffix
	A	B			A	B	
2	.468 11.89	.316 8.03	-2	9	1.560 39.62	1.408 35.76	-9
3	.624 15.85	.472 11.99	-3	12	2.028 51.51	1.876 47.65	1- -2
4	.780 19.81	.628 15.95	-4	15	2.496 63.40	2.344 59.54	1- -5
6	1.092 27.74	.940 23.88	-6	24	3.900 99.06	3.748 95.20	2- -4

### Technical Documents

#### Product Specification

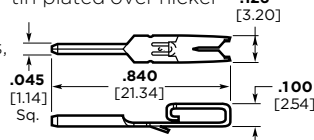
108-1065 MTA-156 Posted Connector

#### Application Specification

114-1020 MTA-156 Connectors, Posted Connectors and Card Edge Connectors

### Replacement IDC Contacts Material and Finish

**Contacts** — Copper alloy, post tin plated over nickel



AWG	Wire Size		Part Numbers
	mm <sup>2</sup>		
18	0.8-0.9		3-641425-1
20	0.5-0.6		3-641426-1
22	0.3-0.4		3-641427-1
24	0.2		3-641428-1
26	0.12-0.15		3-641429-1

## MTA-156 Flat Headers—Straight

### 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. Gold headers are duplex plated, gold on mating end of post and tin on the solder tail.
3. .125 [3.18] solder tail lengths are for .062 [1.57] thick printed circuit boards and .175 [4.45] solder tail lengths are for .093-.125 [2.36- 3.18] thick printed circuit boards.
4. To determine header overall length (Dim. A), multiply .156 x the number of posts. Example: .156 x 10 posts equals 1.560 inches [39.62 mm].

For mateability options, see matrix on pages 27, 28, and 47.

For mating half visuals, see pages 29 thru 32, 49 and 51.

### Header 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 square posts and a .125 [3.18] solder tail length would be:

Base number **640383** plus prefix-and-suffix **4- - -0**

The correct ordering number is **4-640383-0**

The part numbers in **bold face** are the RoHS equivalent version. Example:

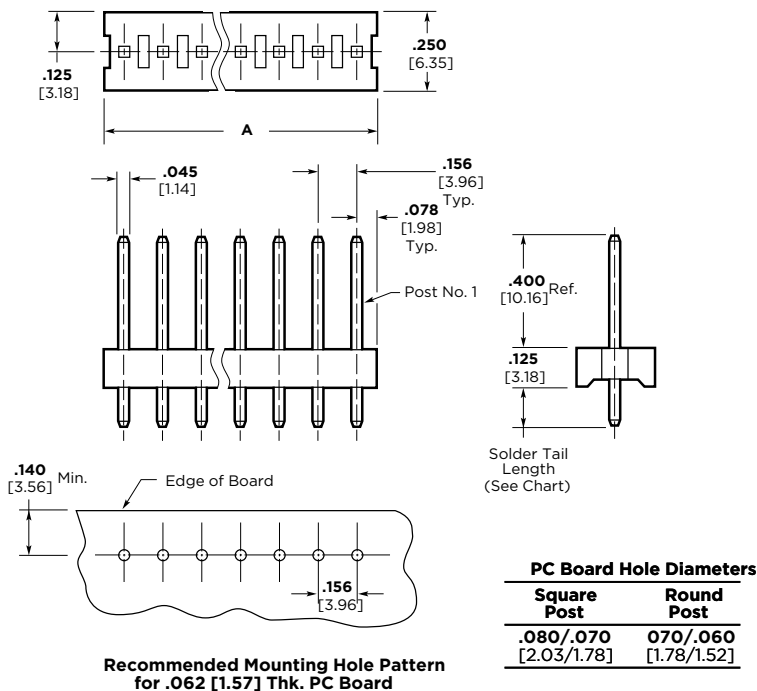
No. of Pos.	Lead Free RoHS Prefix/Suffix
2	3-640383-2
	thru
24	5-640383-4

See page 8 for an explanation of RoHS lead free equivalents.

**Note:** All RoHS equivalent part numbers may not be available upon catalog release. If the number you need is not available, please contact Product Engineering to expedite your request.

**Note:**

Select load headers (omitted pin headers) are available upon request. Please contact product engineer or product manager for details.



**Note:** Consult Product Drawing for details on placing headers onto PC boards.

### Base Part Numbers

Square Posts				Round Posts			
.125 [3.18] Solder tail		.175 [4.45] Solder tail		.125 [3.18] Solder tail		.175 [4.45] Solder tail	
Header Part Nos.	RoHS Equiv.	Header Part Nos.	RoHS Equiv.	Header Part Nos.	RoHS Equiv.	Header Part Nos.	RoHS Equiv.
<b>Standard UL94V-0, Tin Plated</b>							
640383	<b>2-24</b>	644749	<b>2-24</b>	640384	<b>2-24</b>	644750	<b>2-24</b>
<b>Standard UL94V-0, .000030 [0.00076] Gold Plated</b>							
641202	<b>32-54</b>	644756	<b>32-54</b>	641203	<b>32-54</b>	—	—
<b>Standard UL94V-0, .000015 [0.00038] Gold Plated</b>							
641113	<b>32-54</b>	644763	<b>32-54</b>	—	—	—	—

## MTA-156 Flat Headers—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. Gold headers are duplex plated, gold on mating end of post and tin on the solder tail.
3. .125 [3.18] solder tail lengths are for .062 [1.57] thick printed circuit boards and .175 [4.45] solder tail lengths are for .093-.125 [2.36- 3.18] thick printed circuit boards.
4. To determine header overall length (Dim. A), multiply .156 x the number of posts. Example: .156 x 10 posts equals 1.560 inches [39.62 mm].

For mateability options, see matrix on pages 27, 28, and 47.

For mating half visuals, see pages 29 thru 32, 49 and 51.

### Header 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 square posts and a .125 [3.18] solder tail length would be:

Base number **641204** plus  
prefix-and-suffix  
**4- -0**

The correct ordering number is  
**4-641204-0**

The part numbers in **bold face** are the RoHS equivalent version. Example:

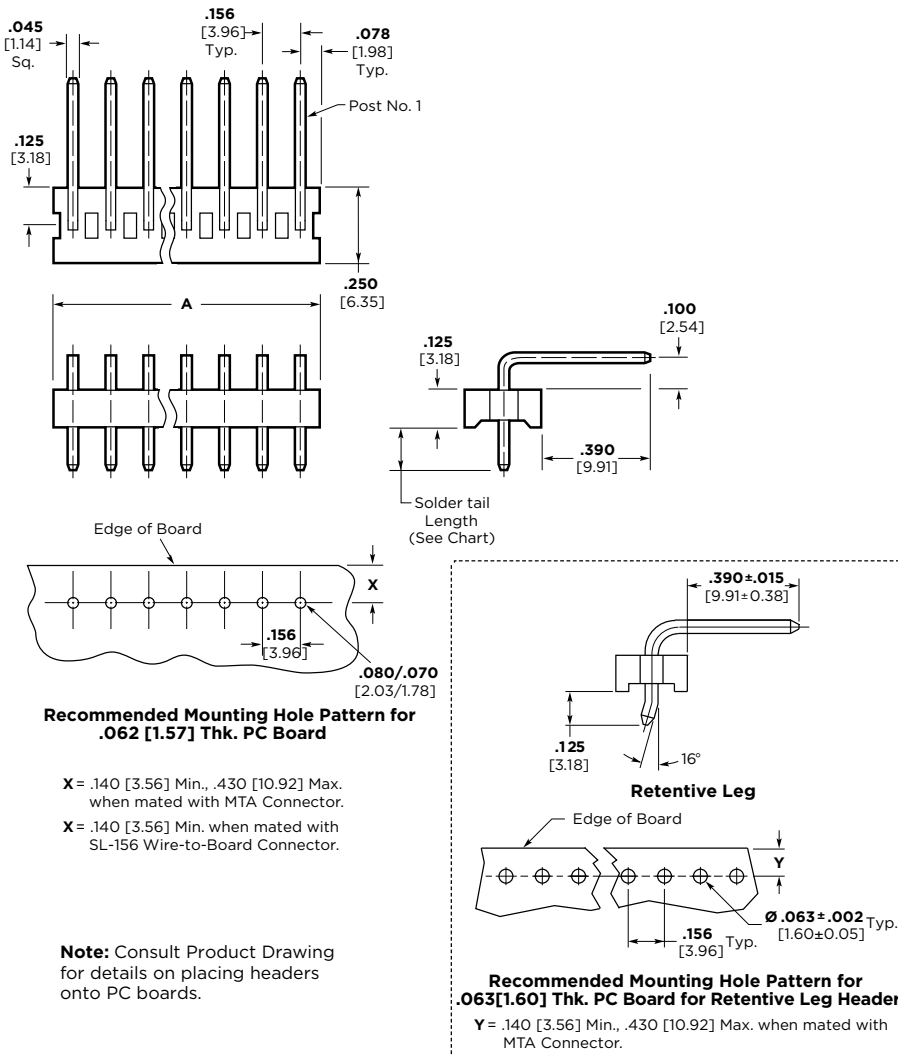
No. of Pos.	Lead Free RoHS Prefix/Suffix
2	3-641204-2
	thru
24	5-641204-4

See page 8 for an explanation of RoHS lead free equivalents.

**Note:** All RoHS equivalent part numbers may not be available upon catalog release. If the number you need is not available, please contact Product Engineering to expedite your request.

**Note:**

Select load headers (omitted pin headers) are available upon request. Please contact product engineer or product manager for details.



### Base Part Numbers

Retentive Leg		Square Posts		Retentive Leg	
Header Part Nos.	RoHS Equiv.	Header Part Nos.	RoHS Equiv.	Header Part Nos.	RoHS Equiv.
<b>Standard UL94V-0, Tin Plated</b>					
647646	<b>2-12</b>	640385	<b>2-24</b>	644751	<b>2-24</b>
<b>Standard UL94V-0, .000030 [0.00076] Gold Plated</b>					
—	—	641204	<b>32-54</b>	—	—
<b>Standard UL94V-0, .000015 [0.00038] Gold Plated</b>					
—	—	—	—	—	—



## MTA-156 Friction Lock Headers—Straight

### 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. Gold headers are duplex plated, gold on mating end of post and tin on the solder tail.
3. .125 [3.18] solder tail lengths are for .062 [1.57] thick printed circuit boards and .175 [4.45] solder tail lengths are for .093-.125 [2.36- 3.18] thick printed circuit boards.
4. To determine header overall length (Dim. A), multiply .156 x the number of posts. Example: .156 x 10 posts equals 1.560 inches [39.62 mm].

For mateability options, see matrix on pages 27, 28, and 47.

For mating half visuals, use connectors with a locking ramp for polarization/retention purposes, see pages 29 thru 32, 48, 53 and 55.

For polarizing purposes only use connectors without a locking ramp. See pages 29 thru 32, 49 and 51.

### Header 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 square posts and a .125 [3.18] solder tail length would be:

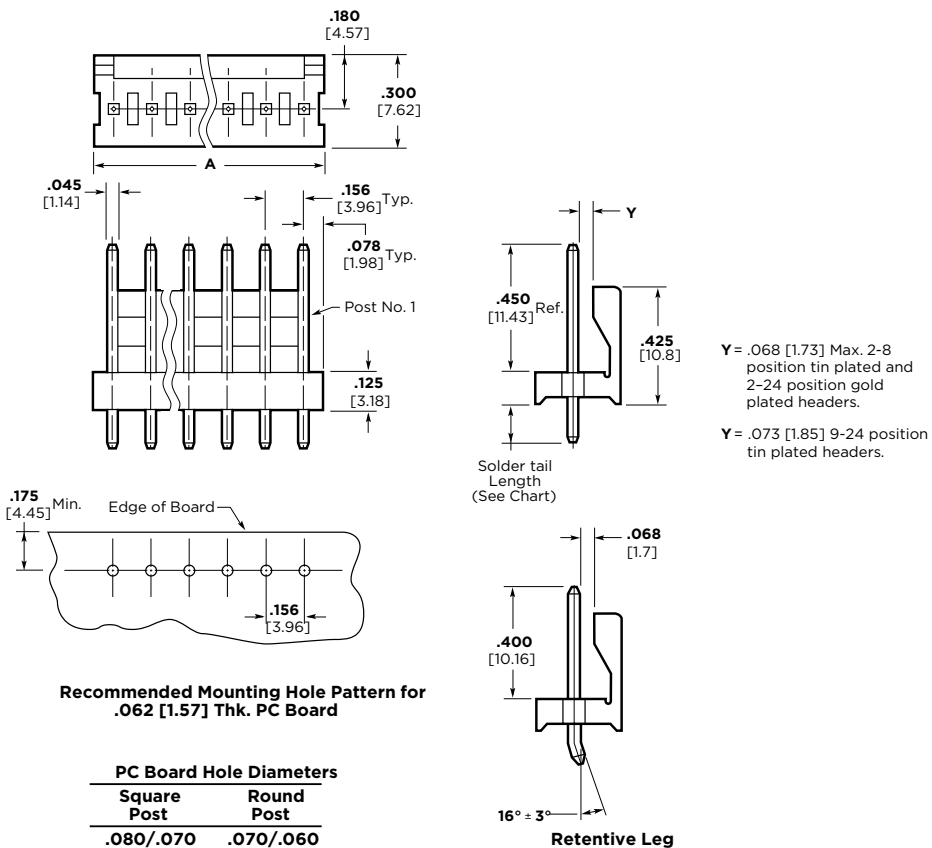
Base number **641208** plus prefix-and-suffix **4- - 0**

The correct ordering number is **4-641208-0**

All part numbers in **bold face** are the RoHS equivalent version. Example:

No. of Pos.	Standard Prefix/Suffix	Lead Free RoHS Prefix/Suffix
2	641208-2	3-641208-2
thru		
24	2-641208-4	5-641208-4

See page 8 for an explanation of RoHS lead free equivalents.



Y = .068 [1.73] Max. 2-8 position tin plated and 2-24 position gold plated headers.  
Y = .073 [1.85] 9-24 position tin plated headers.

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

PC Board Hole Diameters	
Square Post	Round Post
.080/.070 [2.03/1.78]	.070/.060 [1.78/1.52]

**Note:** Consult Product Drawing for details on placing headers onto PC boards.

### Base Part Numbers

Retentive Leg		Square Posts		Round Posts	
Header Part Nos.	RoHS Equiv.	.125 [3.18] Solder tail	.175 [4.45] Solder tail	.125 [3.18] Solder tail	.175 [4.45] Solder tail
<b>Standard UL94V-0, Tin Plated</b>					
1744017	<b>2</b>	640445	<b>2-24</b>	644752	<b>2-24</b>
<b>Standard UL94V-0, .000030 [0.00076] Gold Plated</b>					
—	—	641208	<b>32-54</b>	644759	<b>32-54</b>
<b>Standard UL94V-0, .000015 [0.00038] Gold Plated</b>					
—	—	641119	<b>32-54</b>	644766	<b>32-54</b>

**Note:** All RoHS equivalent part numbers may not be available upon catalog release. If the number you need is not available, please contact Product Engineering to expedite your request.

**Note:**

Select lead headers (omitted pin headers) are available upon request. Please contact product engineer or product manager for details.

## MTA-156 Friction Lock Headers—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. Gold headers are duplex plated, gold on mating end of post and tin on the solder tail.
3. .125 [3.18] solder tail lengths are for .062 [1.57] thick printed circuit boards and .175 [4.45] solder tail lengths are for .093-.125 [2.36- 3.18] thick printed circuit boards.
4. To determine header overall length (Dim. A), multiply .156 x the number of posts. Example: .156 x 10 posts equals 1.560 inches [39.62 mm].

For mateability options, see matrix on pages 27, 28, and 47.

When using Front Bend Headers—for mating half visuals use connectors with a locking ramp for polarization/ retention purposes. When using Rear Bend Headers—for mating half visuals use connectors without a locking ramp. For polarization purposes only see pages 29 thru 32, 49 and 51.

### Header 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 square posts, front bend, and a .125 [3.18] solder tail length would be:

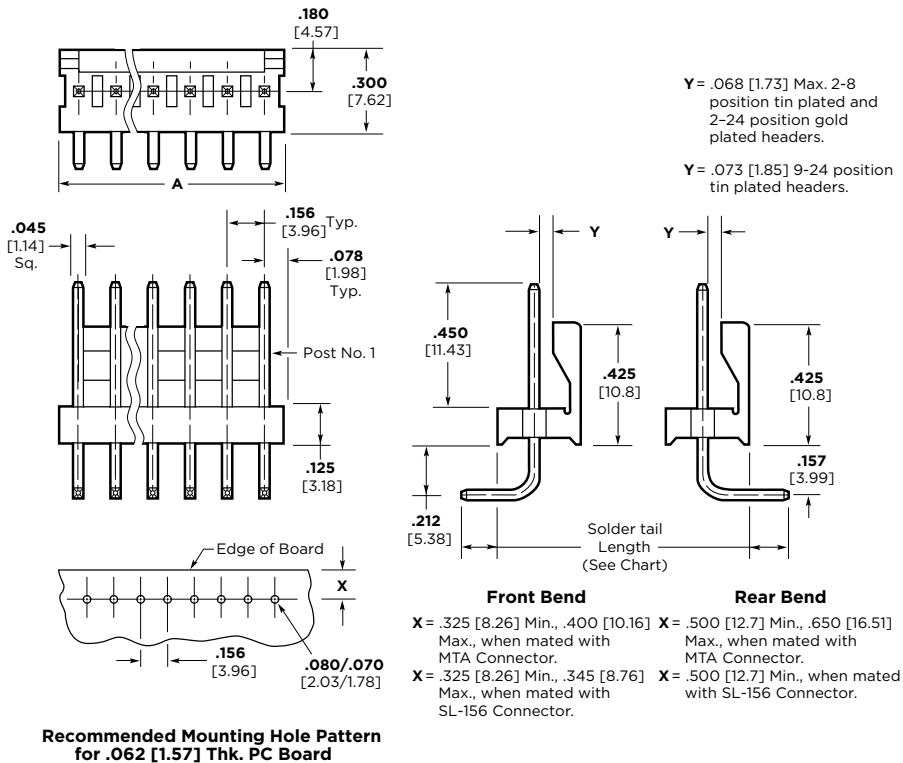
Base number **641210** plus prefix-and-suffix **4- - 0**

The correct ordering number is **4-641210-0**

All part numbers in **bold face** are the RoHS equivalent version. Example:

No. of Pos.	Standard Prefix/Suffix	Lead Free RoHS Prefix/Suffix
2	641210-2	3-641210-2
	thru	
24	2-641210-4	5-641210-4

See page 8 for an explanation of RoHS lead free equivalents.



**Note:** Consult Product Drawing for details on placing headers onto PC boards.

### Base Part Numbers

Square Posts							
Front Bend				Rear Bend			
.125 [3.18] Solder tail		.175 [4.45] Solder tail		.125 [3.18] Solder tail		.175 [4.45] Solder tail	
Header Part Nos.	RoHS Equiv.	Header Part Nos.	RoHS Equiv.	Header Part Nos.	RoHS Equiv.	Header Part Nos.	RoHS Equiv.
<b>Standard UL94V-0, Tin Plated</b>							
640389	<b>2-24</b>	644754	<b>2-24</b>	640387	<b>2-24</b>	644755	<b>2-24</b>
<b>Standard UL94V-0, .000030 [0.00076] Gold Plated</b>							
641210	<b>32-54</b>	644761	<b>32-54</b>	641207	<b>32-54</b>	—	—
<b>Standard UL94V-0, .000015 [0.00038] Gold Plated</b>							
641121	<b>32-54</b>	644768	<b>32-54</b>	—	—	644769	<b>32-54</b>

**Note:** All RoHS equivalent part numbers may not be available upon catalog release. If the number you need is not available, please contact Product Engineering to expedite your request.

**Note:** Select load headers (omitted pin headers) are available upon request. Please contact product engineer or product manager for details.



## MTA-156 Polarized Lock Headers—Straight

### Material and Finish

**Housing**—UL94V-0 rated, polyester, white

**Posts**—Copper alloy, tin plated .000030 [0.00076] 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. Peg holes are not required in PC Boards when headers without pegs are used.
3. One peg only on a 2 position header, other position sizes have two pegs.
4. Headers with .00015 [0.00038] gold plated post are available upon request. Minimums may apply.
5. To determine header overall length (Dim. A), multiply .156 x the number of posts. Example: .156 x 10 posts equals 1.560 inches [39.62 mm].

For mateability options, see matrix on pages 27, 28, and 47.

For mating half visuals, use connectors with a locking ramp for polarization/retention purposes, see pages 29 thru 32, 53 and 55.

For por polarizing purposes only use connectors without a locking ramp. See pages 29 thru 32, 49 and 51.

### Header 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 square posts with pegs would be::

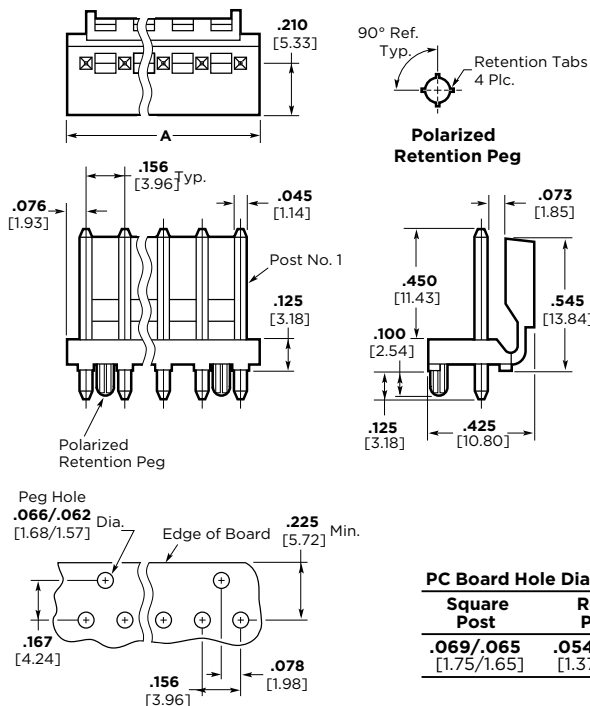
Base number **644615** plus  
prefix-and-suffix  
**4- - -0**

The correct ordering number is  
**4-644615-0**

All part numbers in **bold face** are the RoHS equivalent version. Example:

No. of Pos.	Lead Free RoHS Prefix/Suffix
2	3-644615-2
	thru
18	4-644615-8

See page 8 for an explanation of RoHS lead free equivalents.



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

**Note:** Consult Product Drawing for details on placing headers onto PC boards.

### Base Part Numbers

Square Posts				Round Posts			
Without Pegs		With Pegs		Without Pegs		With Pegs	
Header Part Nos.	RoHS Equiv.	Header Part Nos.	RoHS Equiv.	Header Part Nos.	RoHS Equiv.	Header Part Nos.	RoHS Equiv.
<b>Standard UL94V-0, Tin Plated</b>							
644611	<b>32-35</b>	644615	<b>32-48</b>	—	—	—	—
<b>Standard UL94V-0, .000030 [0.00076] Gold Plated</b>							
644627	<b>32-48</b>	644631	<b>32-35</b>	—	—	—	—

**Note:** All RoHS equivalent part numbers may not be available upon catalog release. If the number you need is not available, please contact Product Engineering to expedite your request.

**Note:**

Select lead headers (omitted pin headers) are available upon request. Please contact product engineer or product manager for details.

## MTA-156 Polarized Lock Headers—Right-Angle

### Material and Finish

**Housing**—UL94V-0 rated, polyester, white

**Posts**—Copper alloy, tin plated .000030 [0.00076] gold over nickel

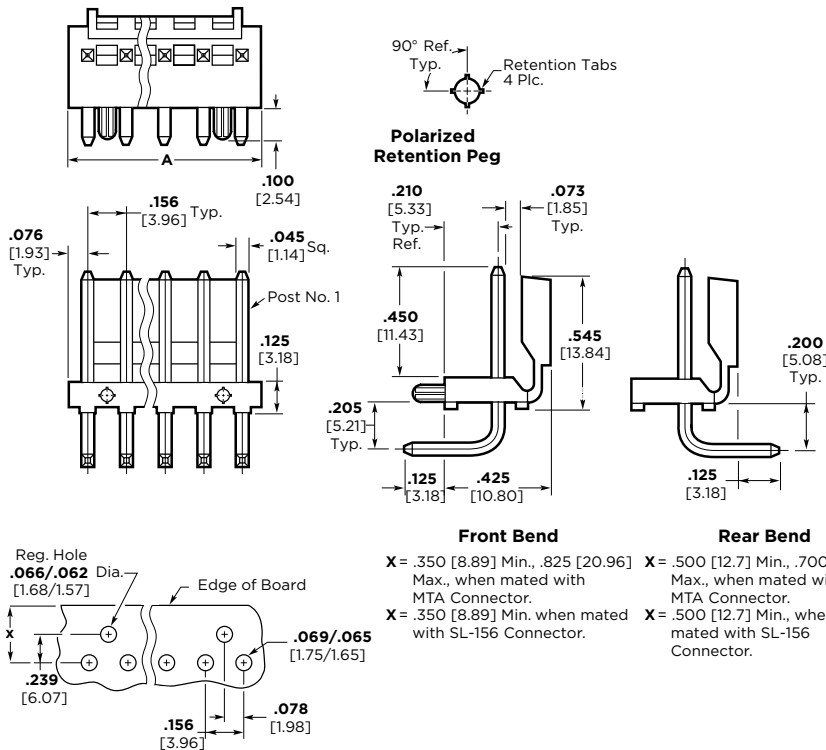
**Notes:**

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. Peg holes are not required in PC Boards when headers without pegs are used.
3. One peg only on a 2 position header, other position sizes have two pegs.
4. Headers with .00015 [0.00038] gold plated post are available upon request. Minimums may apply.
5. To determine header overall length (Dim. A), multiply .156 x the number of posts. Example: .156 x 10 posts equals 1.560 inches [39.62 mm].

For mateability options, see matrix on pages 27, 28, and 47.

For mating half visuals, use connectors with a locking ramp for polarization/retention purposes, see pages 29 thru 32, 53 and 55.

For polarizing purposes only use connectors without a locking ramp. See pages 29 thru 32, 49 and 51.



### Header 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 front bend and with pegs would be:

Base number **644617** plus prefix-and-suffix **4- -0**

The correct ordering number is **4-644617-0**

All part numbers in **bold face** are the RoHS equivalent version. Example:

No. of Pos.	Lead Free RoHS Prefix/Suffix
2	3-644617-2
	thru
18	4-644617-8

See page 8 for an explanation of RoHS lead free equivalents.

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

**Note:** Consult Product Drawing for details on placing headers onto PC boards.

### Base Part Numbers

Square Posts					
Front Bend				Rear Bend	
Without Pegs		With Pegs		Without Pegs	
Header Part Nos.	RoHS Equiv.	Header Part Nos.	RoHS Equiv.	Header Part Nos.	RoHS Equiv.
<b>Standard UL94V-0, Tin Plated</b>					
644613	<b>32-48</b>	644617	<b>32-48</b>	—	—
<b>Standard UL94V-0, .000030 [0.00076] Gold Plated</b>					
—	—	644633	<b>32-48</b>	—	—

**Note:** All RoHS equivalent part numbers may not be available upon catalog release. If the number you need is not available, please contact Product Engineering to expedite your request.

**Note:**

Select load headers (omitted pin headers) are available upon request. Please contact product engineer or product manager for details.

## MTA-156 Friction Lock High Temperature Headers—Straight

### Material and Finish

**Housing**—UL94V-0 rated, nylon, black  
**Posts**—Copper alloy, tin plated .000015 [0.00038] gold over nickel  
**Temperature**—Maximum Temperature Rating: 280°C

#### 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. Gold headers are duplex plated, gold on mating end of post and tin-lead on the solder tail.
3. Headers with straight and right-angle square posts are available upon request. Minimums may apply.
4. To determine header overall length (Dim. A), multiply .156 x the number of posts. Example: .156 x 10 posts equals 1.560 inches [39.62 mm].

For mateability options, see matrix on pages 27, 28, and 47.

For mating half visuals, use only connectors with a locking ramp for polarization/retention purposes, see pages 29 thru 32, 53 and 55.

For polarizing purposes only use connectors without a locking ramp. See pages 29 thru 32, 49 and 51.

### Header 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 round tin plated posts:

Base number **647648** plus prefix-and-suffix **4- -0**

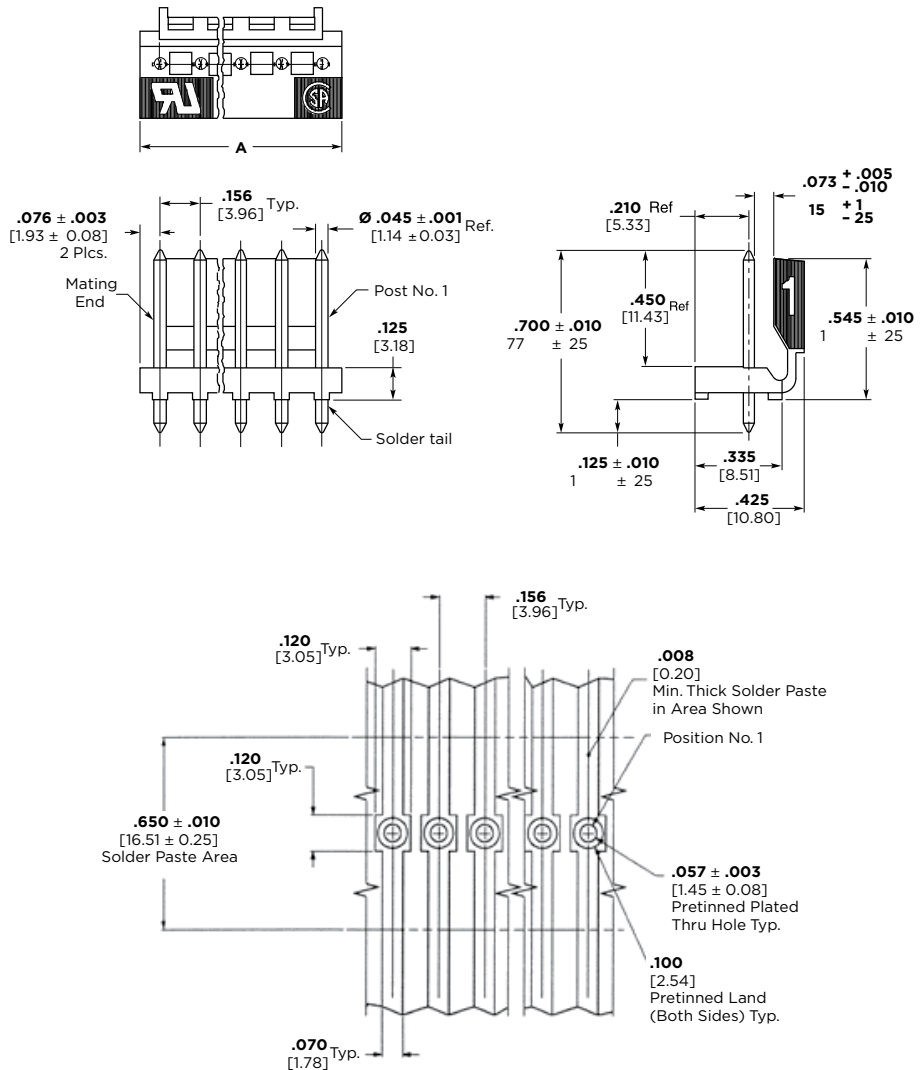
The correct ordering number is **4-647648-0**

All part numbers in **bold face** are the RoHS equivalent version. Example:

No. of Pos.	Lead Free RoHS Prefix/Suffix
2	3-647648-2
	thru
18	4-647648-2

See page 8 for an explanation of RoHS lead free equivalents.

### For use with Infrared Reflow Process



### Recommended Mounting Hole Pattern for .062 [1.57] Thick PC Board

**Note:** Consult Product Drawing for details on placing headers onto PC boards.

### Base Part Numbers

Round Post	
Header Part Nos.	RoHS Equiv.
<b>Standard UL94V-0, Tin Plated</b>	
647648	<b>32-42</b>
<b>Standard UL94V-0, .000015 [0.00038] Gold Plated</b>	
647649	<b>32-42</b>

**Note:** All RoHS equivalent part numbers may not be available upon catalog release. If the number you need is not available, please contact Product Engineering to expedite your request.

#### Note:

Select load headers (omitted pin headers) are available upon request. Please contact product engineer or product manager for details.

## MTA-156 Shrouded Headers—Straight and Right-Angle

### Material and Finish

**Housing**—UL94V-0 rated, polyester, black

**Posts**—Copper alloy, tin plated; or .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. Gold headers are duplex plated, gold on mating end of post and tin-lead on the solder tail.
3. Peg holes are not required in PC boards when headers without pegs are used.
4. One peg only on a 2 position header, other position sizes have two pegs.
5. Right-angle front and rear bend headers with retention pegs can be made available upon request. Minimums may apply.

For mateability options, see matrix on pages 27, 28, and 47.

For mating half visuals, see pages 29 thru 32.

### Header 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, square posts and with pegs would be:

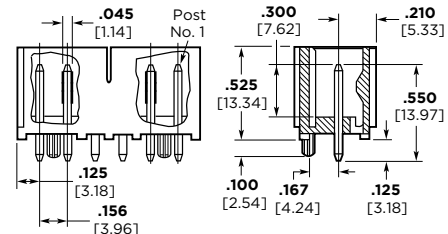
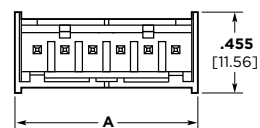
Base number **647127** plus prefix-and-suffix **4-- -0**

The correct ordering number is **4-647127-0**

No. of Pos.	Dim. A	RoHS Prefix/Suffix
2	.406 10.31	2--2
3	.562 14.27	2--3
4	.718 18.24	2--4
5	.874 22.20	2--5
6	1.030 26.16	2--6
7	1.186 30.12	2--7
8	1.342 34.09	2--8
9	1.498 38.05	2--9
10	1.654 42.01	3--0
11	1.810 45.97	3--1
12	1.966 49.94	3--2

All RoHS equivalent part numbers may not be available upon catalog release. If the number you need is not available, please contact Product Engineering to expedite your request.

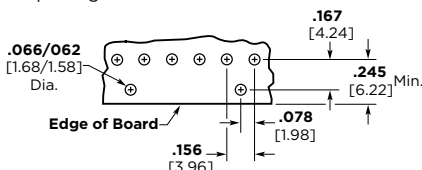
### Straight Post (.045 [1.14] Square or Round)



### PC Board Hole Diameters

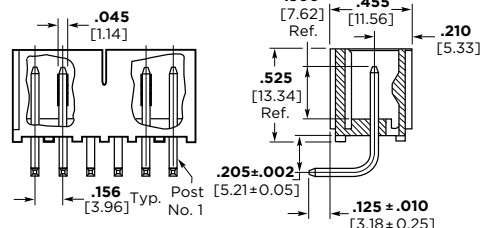
Square Post	Round Post
.069/.065 [1.75/1.65]	.054/.050 [1.37/1.27]

**Note:** Consult Product Drawing for details on placing headers onto PC boards.

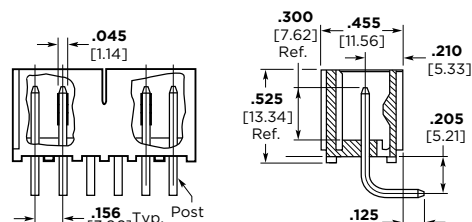


Recommended Mounting Hole Pattern for .062 [1.57] Thick PC Board Using a Straight Post Header

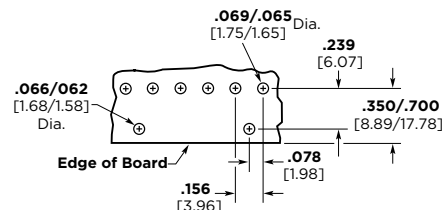
### Right-Angle (.045 [1.14] Square)



### Front Bend



### Rear Bend



Recommended Mounting Hole Pattern for .062 [1.57] Thick PC Board Using a Right-Angle Header

### Base Part Numbers

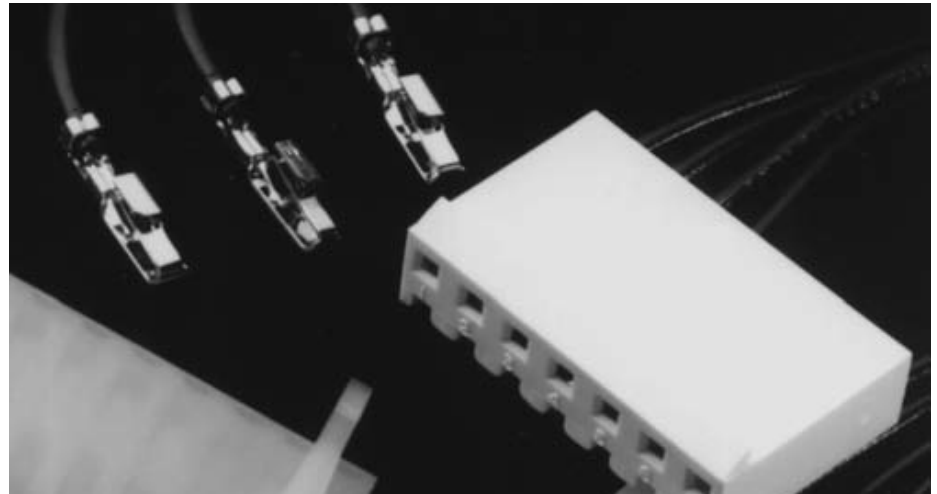
Straight Square Posts				Straight Round Posts			
Without Pegs		With Pegs		Without Pegs		With Pegs	
Header Part Nos.	RoHS Equiv.	Header Part Nos.	RoHS Equiv.	Header Part Nos.	RoHS Equiv.	Header Part Nos.	RoHS Equiv.
<b>Standard UL94V-0, Tin Plated</b>							
647123	22-32	647127	22-32	—	—	—	—
<b>Standard UL94V-0, .000030 [0.00076] Gold Plated</b>							
—	—	—	—	—	—	—	—
<b>Standard UL94V-0, .000015 [0.00038] Gold Plated</b>							
—	—	—	—	—	—	—	—
<b>Square Posts</b>							
<b>Right-Angle Posts, Front Bend Without Pegs</b>				<b>Right-Angle Posts, Rear Bend Without Pegs</b>			
Header Part Nos.	RoHS Equiv.	Header Part Nos.	RoHS Equiv.	Header Part Nos.	RoHS Equiv.	Header Part Nos.	RoHS Equiv.
<b>Standard UL94V-0, Tin Plated</b>							
647125	22-32	—	—	—	—	—	—
<b>Standard UL94V-0, .000030 [0.00076] Gold Plated</b>							
—	—	—	—	—	—	—	—
<b>Standard UL94V-0, .000015 [0.00038] Gold Plated</b>							
—	—	—	—	—	—	—	—

**Note:** Select load headers (omitted pin headers) are available upon request. Please contact product engineer or product manager for details.

## .156 [3.96] Centerline SL-156 Crimp Contacts and Housings

### PRODUCT FACTS

- Rugged wire-to-board interconnection to mate with .045 square or round post headers or staked posts on .156 centers
- Standard Connectors accept wire range of 18–24 AWG [0.9–0.2 mm] and LID Connectors accept wire range of 18–24 AWG [0.9–0.2 mm] and a limited 16 AWG [1.29–1.42 mm] (2550–2800 CMA)
- Two-piece interconnection system (connector/header)
- Housing made of flame retardant nylon
- Available in 1- through 24-position connector configurations
- Connectors are end-to-end stackable
- Wire-to-board system offers polarization with friction lock for positive mating
- Meets the material requirements of Table 23.1 of UL1410 Standard for High-Voltage Television Receivers and Video Productions
- Recognized under the Component Program of Underwriters Laboratories Inc., File No. E28476
- Certified by Canadian Standards Association, File No. LR7189



The AMP SL-156 connectors shown on the following pages are designed to mate with .045 [1.14] square or round post headers or staked posts on .156 [3.96] centers.

The wire-to-board connector is a two-piece connector system with the wire crimped to the contact, then inserted into the housing. This product mates with the MTA-156 flat, polarized and friction lock header, or staked posts (**not** MTA-156 shrouded headers).

### Performance Data\*

**Voltage Rating**—250 vac

**Current Rating**—10 amp max. at 250 vac

**Low-Level Resistance**—3.0 mΩ max. initial

**Dielectric Withstanding Voltage**—2000 vac/1 min.

**Insulation Resistance**—1000 MΩ min. initial

**Operating Temperature**—–55° C to +105° C

The Large Insulation Diameter (LID) Contacts and Housings are for use in applications where wire insulation is up to .112 [2.84] in diameter.

These matrixes represent only the housing and header combinations. You also need to consider the plating on the contacts and headers. Gold contacts with gold headers and tin contacts with tin headers.

### Matrix for Tin Plated Part Numbers

Housings	Standard	LID	Headers																										
			640385	640384	640385	640387	640388	640389	640445	644611	644612	644613	644614	644615	644616	644617	644749	644750	644751	644752	644753	644754	644755	647227	647228	647229	647230	647260	647262
640250	647401		Y	N	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y
640251	647400		Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y
770849	647402		Y	N	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	N	Y	Y

### Matrix for .00030 [0.00076] Gold Plated Part Numbers

Housings	Standard	LID	Headers																									
			641202	641203	641204	641207	641208	641209	641210	644627	644628	644629	644630	644631	644632	644633	644756	644757	644758	644759	644760	644761	644762					
640250	647401		Y	Y	Y	N	Y	Y	Y	Y	Y	Y	N	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	N
640251	647400		Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y
770849	647402		Y	Y	Y	N	Y	Y	Y	Y	Y	Y	N	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	N

### Matrix for .00015 [0.00038] Gold Plated Part Numbers

Housings	Standard	LID	Headers														
			641113	641114	641115	641118	641119	641120	641121	644322	644763	644764	644765	644766	644767	644768	644769
640250	647401		Y	Y	Y	N	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	N
640251	647400		Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y
770849	647402		Y	Y	Y	N	Y	Y	Y	Y	Y	Y	Y	Y	Y	N	Y

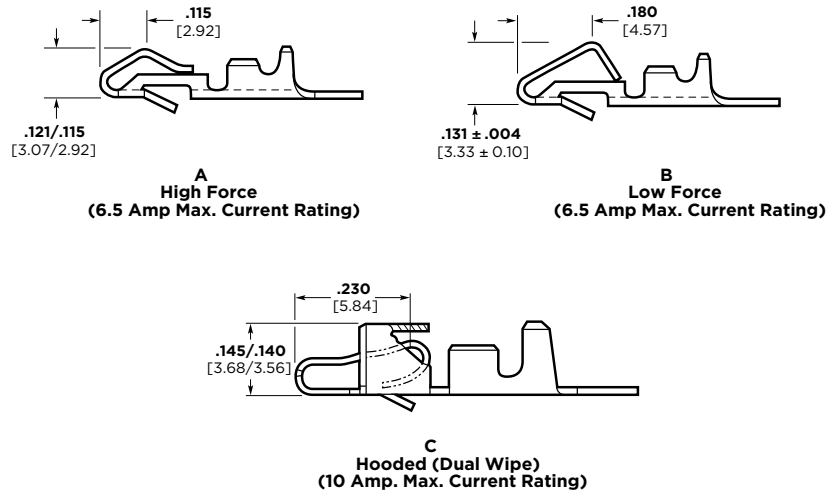
## SL-156 Crimp Contacts and Keying Plugs

### Contacts

#### Material and Finish

.012 [0.3] bright tin plated brass or phosphor bronze; .012 [0.3] pre-tin brass; or .012 [0.3] brass or phosphor bronze with .000030 [0.00076] gold over nickel (see chart)

- All tin-plated contacts are post lubricated to resist fretting corrosion
- Maximum insulation diameter is .105 [2.67]
- Wire range is 18-30 AWG [0.9-0.06 mm<sup>2</sup>]



#### Application Note

Part No. 640252 has a higher mating and unmating force than Part No. 350980 and is recommended to be used only in housings with 1 through 12 positions.

Part No. 350980 can be used in any size housing but is recommended to be used in housings with 13 through 24 positions. Part No. 770476 is recommended for use in any size housing. Its mating force is similar to Part No. 350980 while unmating force is similar to 640252.

For housings, see pages 49 and 50.

Wire Size AWG mm <sup>2</sup>	Contact	Material and Finish	Part Numbers	
			Strip	Loose Piece
24-30 0.2-0.06	A	brass, pre-tin plated	641550-1	—
		brass, bright tin plated	640252-1	640706-1
18-24 0.9-0.2	A	brass, pre-tin plated	640252-2	640706-2
		brass, <b>RoHS Compliant</b>	3-640252-1	3-640706-1
		brass, bright tin plated	350980-1	640707-1
	B	brass, pre-tin plated	350980-2	—
		brass, gold plated	350980-3	770258-1
		brass, <b>RoHS Compliant</b>	3-350980-1	3-640707-1
	C	phosphor bronze, bright tin plated	770476-1	770522-1
		phosphor bronze, gold plated	770476-2	770522-2
		phosphor bronze, <b>RoHS Compliant</b>	3-770476-1	3-770522-1

#### Application Tooling

Extraction Tool  
Part No. 90471-1

#### Loose Piece Contacts

PRO-CRIMPER II Hand Tool  
Part No. 58614-1 (408-4228)  
[For field service use only]  
For CERTI-CRIMP hand tool,  
contact Technical Support.

#### Strip Contacts —

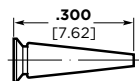
AMP-O-LECTRIC Model “G”  
Termination Machine\*  
Applicator 680211-3  
(Request Catalog 65828)  
AMP-O-LECTRIC Model “K”  
Termination Machine\* Applicator  
466468-2  
AMP-O-MATIC Stripper-Crimper  
Machine\* SCA 466947-1 or 567828-1  
(with CQM) (Request Catalog 65004)  
AMPOMATOR CLS IV+ Lead Making  
Machine\* Applicator 466468-1  
(Request Catalog 82659)

\*Requires applicators. For part numbers, call Technical Support.

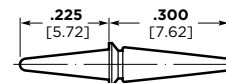
### Keying Plugs

#### Material (RoHS Compliant)

UL94V-2 rated, nylon, natural color



Keying Plug  
Part No. 640254-1



Keying Pin  
Part No. 640255-1



## SL-156 Housings—Wire-to-Board

### Housings

#### Material (RoHS Compliant)

UL94V-0 rated, nylon, white

#### Notes:

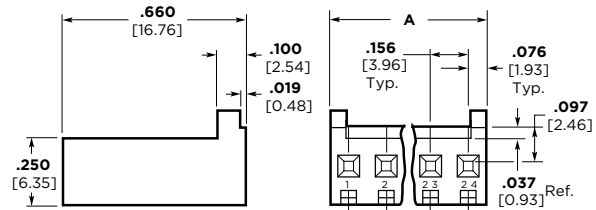
1. Accepts either .045 [1.14] square or round posts. Housings mate with flat and friction lock headers, or staked posts on .156 [3.96] centers.
2. Housings without ramp, with polarizing tab, available upon request. Minimums may apply.
3. Recommend contact: Part No. 640252 for 1 thru 12 positions; Part No. 350980 for 13 thru 24 positions; Part No. 770476 for 1 thru 24 positions.

For contacts, see page 48.

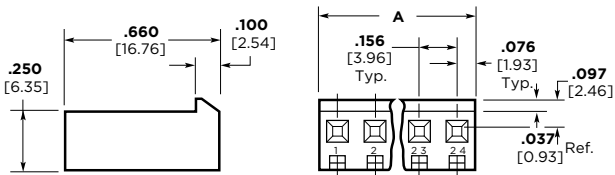
For mateability options, see matrix on page 47.

For mating half visuals, for connectors with locking ramp, see pages 39, 36, 41, 43 and 45, (41 and 44 Front Bend Headers only.)

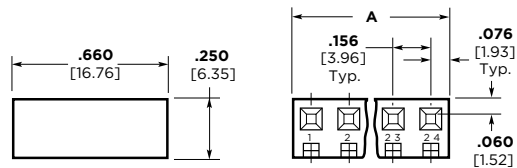
For mating half visuals, for connectors without locking ramp, see pages 35 thru 45.



(A) With Locking Ramp/With Polarizing Tabs



(B) With Locking Ramp/Without Polarizing Tabs



(C) Without Locking Ramp/Without Polarizing Tabs

**Note:** Dim. A = 0.156 × (No. of Positions - 1) + 0.152

No. of Positions*	Housing	Description	Part Numbers*
2-24	A	With Locking Ramp and Polarizing Tabs	770849
1-24	B	With Locking Ramp and without Polarizing Tabs	640250
	C	Without Locking Ramp or Polarizing Tabs	640251

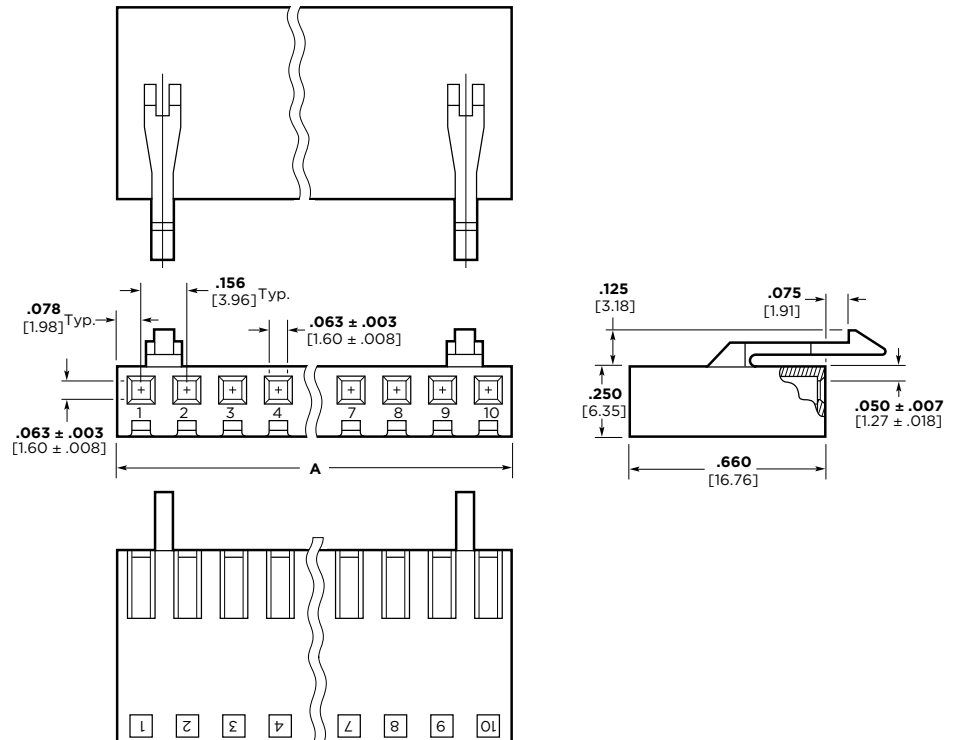
\*Base Part Number Prefixes and Suffixes indicate number of contact positions, e.g. 2 Position = 0-xxxxxx-2 and 12 Position = 1-xxxxxx-2.

**Note:** Housings not for use with LID Contacts. Shown on page 51.

## SL-156 Housings With Through Board Latch

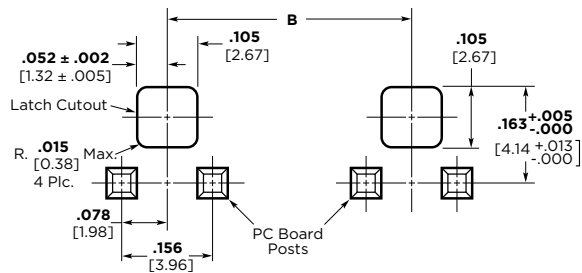
### Housings

**Material (RoHS Compliant)**  
UL94V-0 rated, nylon, white.



**Mates with .045 square or round staked posts only.**

For contacts, see page 48.



**Recommended PC Board Cutout  
for .062 [1.57] Thick PC Board**

No. of Pos.	Dimensions		Latch Location Centered Between Pos.	Part Number
	A	B		
2	.312 7.92	—	1 and 2	770894-2
3	.468 11.89	—	1 and 2	770894-3
4	.624 15.85	—	2 and 3	770894-4
5	.780 19.81	—	2 and 3	770894-5
6	.936 23.77	—	3 and 4	770894-6
7	1.092 27.74	—	3 and 4	770894-7
8	1.248 31.70	—	4 and 5	770894-8
9	1.404 35.66	1.092 27.74	1 and 2 & 8 and 9	770894-9
10	1.560 39.62	1.248 31.70	1 and 2 & 9 and 10	1-770894-0

**Note:** Not for use with LID Contacts.

## SL-156 Housings and Contacts for Large Insulation Diameter (LID) Wire

### Housings

#### Material (RoHS Compliant)

UL94V-0 rated, nylon, white

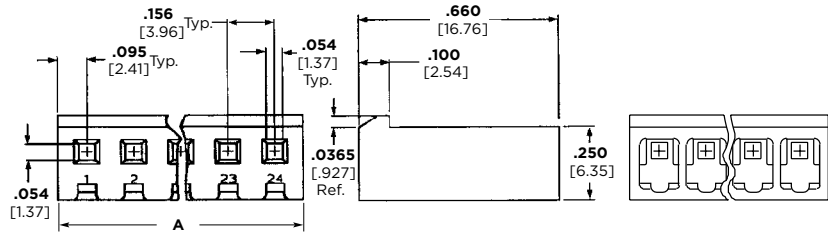
#### Notes:

1. Accepts Standard and LID contacts.
2. Larger opening in housings eases contact insertion when using wires that have large insulation diameters (.100-.112 [2.54-2.84]).
3. Housings are not End-to-End stackable.

For mateability options, see matrix on page 47.

For mating half visuals, for connectors with locking ramp, see pages 39, 40, 41, 43 and 49, (42 and 44 Front Bend Headers only.)

For mating half visuals, for connectors without locking ramp, see pages 39 thru 45.



**Note:** Dim. A = 0.156 × (No. of Positions - 1) + 0.19

No. of Positions*	Description	Part Numbers*
		Housings with Larger Openings for Oversize Wire
1-24	Without Locking Ramp or Polarizing Tabs	647400
	With Locking Ramp and without Polarizing Tabs	647401 (shown above)
2-24	With Locking Ramp and Polarizing Tabs	647402

\*Base Part Number Prefixes and Suffixes indicate number of contact positions, e.g. 2 Position = 0-xxxxxx-2 and 12 Position = 1-xxxxxx-2.

### Contacts

#### Material and Finish

.012 [0.3] bright tin plated phosphor bronze; .012 [0.3] phosphor bronze with .000030 [0.00076] gold over nickel (see chart)

- All tin-plated contacts are post lubricated to resist fretting corrosion
- Maximum insulation diameter is .112 [2.85]
- Wire range is 18-24 AWG [0.9-0.2 mm<sup>2</sup>] and a limited 16 AWG [1.29-1.42 mm<sup>2</sup>] (2550-2800 CMA)

#### Product Specifications

108-1049-1 and 108-1049-2

#### Application Specification

114-1021

#### Application Tooling

Extraction Tool Part No. 90471-1

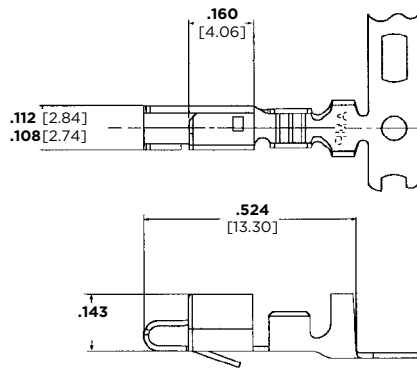
#### Loose Piece Contacts —

PRO-CRIMPER II Hand Tool  
Part No. 91368-1 [18-24 AWG]  
Part No. 91369-1 [16 AWG]  
(For field service use only.)  
For CERTI-CRIMP hand tool, contact Technical Support.

#### Strip Contacts —

AMP-O-LECTRIC Model “G”  
Termination Machine\*  
Applicator 1385048-3 [18-24 AWG]  
Applicator 1385219-3 [16 AWG]  
AMP-O-LECTRIC Model “K”  
Termination Machine\*  
Applicator 1385048-2 [18-24 AWG]  
Applicator 1385219-2 [16 AWG]

\*For additional part numbers and information contact Technical Support.



**Hooded (Dual Wipe)  
(10 Amp Max. Current Rating)**

Wire Size	Material	Plating	Part Numbers For LID* Wire	
			Strip	Loose Piece
18-24 AWG	Phosphor Bronze	Tin	647406-1	647409-1
		Gold	647406-2	647409-2
		RoHS Compliant	3-647406-1	3-647409-1
16 AWG (2550-2800 CMA only)	Phosphor Bronze	Tin	647466-1	647485-1
		Gold	647466-2	647485-2
		RoHS Compliant	3-647466-1	3-647485-1

\*Large Insulation Diameter (.100-.112 [2.54-2.84])

- Notes:** 1. For information on application tooling, call Technical Support.  
2. Can not be used with Standard SL-156 Housings, must be used with LID Housings only.

## MTA Wire Selection

Proper wire selection is critical to the success of a wire-to board application. The chart identifies wires that have been evaluated and approved by the product engineering section. If you plan to use a wire not on the approved list, please submit a sample 12" length of wire to TE for evaluation.

### AWG Metric Equivalents

- 18 — 0.8–0.9 mm<sup>2</sup>
- 20 — 0.5–0.6 mm<sup>2</sup>
- 22 — 0.3–0.4 mm<sup>2</sup>
- 24 — 0.2 mm<sup>2</sup>
- 26 — 0.12–0.15 mm<sup>2</sup>
- 28 — 0.08–0.09 mm<sup>2</sup>

### Product Specifications

- 108-1050 — MTA-100 Connectors
- 108-1050-1 — MTA-100 Posted Connectors
- 108-1051 — MTA-156 Connectors
- 108-1219 — MTA-156 Quad Connector System
- 108-1065 — MTA-156 Posted Connectors
- 108-1058 — MTA-156 Card Edge Connectors

### Application Specifications

- 114-1019 — MTA-100 Connectors
- 114-1020 — MTA-156 Connectors
- 114-1031 — MTA-100 Ribbon Cable Connector Assembly
- 114-1032 — MTA-156 Ribbon Cable Connector Assembly
- 114-1048 — MTA-156 Quad Connector

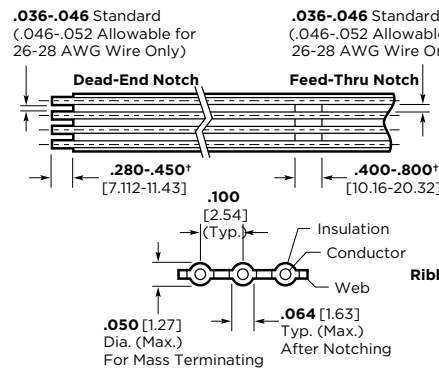
## MTA Connectors Approved Wire Listing

MTA-100 Connectors	Wall	Approved Wire AWG
UL 1007 PVC Insulation	.015" [0.381]	22, 24, 26, 28
UL 1061 Semi-Rigid PVC Insulation	.009" [0.229]	22, 24, 26, 28
UL 1095 Semi-Rigid PVC Insulation	.012" [0.305]	24
UL 1371 TEFLON Insulation — TFE	.006" [0.152]	22, 26
UL 1429 Irradiated PVC — X.L.P.V.C.	.010" [0.254]	22, 24, 26, 28
UL 2464 PVC	.013" [0.330]	24, 26
UL 3265 Irradiated Polyethylene — X.L.P.E.	.010" [0.254]	22, 24
UL 3266 Irradiated Polyethylene — X.L.P.E.	.015" [0.381]	22, 24
MIL-W-16878, Type B-PVC Insulation	.010" [0.254]	22
UL 1213 TEFLON Insulation—T.F.E.	.010" [0.254]	22
MTA-156 Connectors		
UL 1007 PVC Insulation	.015" [0.381]	18, 20, 22, 24
UL 1061 Semi-Rigid PVC Insulation	.009" [0.229]	18, 20, 22, 24
UL 1180 TEFLON Insulation — T.F.E.	.015" [0.381]	22
UL 1213 TEFLON Insulation — T.F.E.	.010" [0.254]	18, 22, 24
UL 1316 PVC/Nylon Wall	.015" [0.381]	18, 22
UL 1429 Irradiated PVC — X.L.P.V.C.	.010" [0.254]	18, 20, 22, 24
UL 1430 Irradiated PVC — X.L.P.V.C.	.015" [0.381]	18, 20, 22, 24
UL 1569 PVC	.015" [0.381]	18
UL 3265 Irradiated Polyethylene — X.L.P.E.	.010" [0.254]	22
UL 3266 Irradiated Polyethylene — X.L.P.E.	.015" [0.381]	18, 20, 22, 24

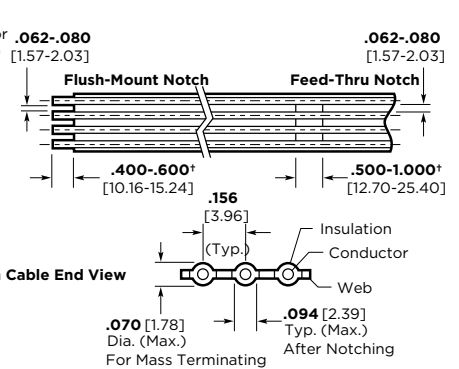
**Note:** When selecting approved wire styles noted on this list, the MTA Application Specifications guidelines must be followed. Also, due to wire variations in insulation wall thickness, hardness and wire stranding we would recommend evaluating the wire selected before final application approval.

TEFLON is a trademark of E.I. DuPont de Nemours and Company.

### MTA-100 Ribbon Cable Preparation



### MTA-156 Ribbon Cable Preparation

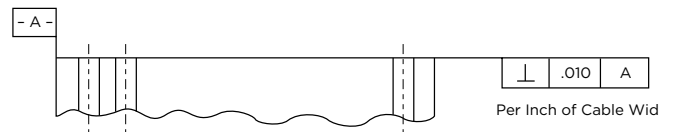


† The dimensions shown represent the recommended minimum and maximum for notches; the actual dimension will depend on your application requirements.

### Notes:

- Cable shall be notched, as indicated in the individual ribbon cable connector assembly drawing, according to the requirements specified in these figures. Conductor shall not be exposed after notching, nor shall individual wire stands be cut or nicked.
- U.L. Style #2651 ribbon cable is approved for use with MTA-100 and MTA-156 connectors per Application Specification 114-1031 and 114-1032.

## Ribbon Cable



### Notes:

- For MTA Cable Assemblies Contact US Engineering Cable Assembly Group.
- For IDC Cable, see pages 60 thru 63.

**Cable Edge-to-End Alignment**  
(Ends of the cable shall be prepared as indicated in this figure)

### IDC Ribbon Cable

#### PRODUCT FACTS

- Compatible with a variety of Insulation Displacement Connectors
- Available on .025 [0.63], .0394 [1.00], .050 [1.27], .100 [2.54] and .156 [3.96] centerline
- Color code edge mark on conductor #1
- Gray flame retardant flexible PVC insulation
- Insulation rated for temperature of -20°C to +105°C
- Recognized under the Component Program of Underwriters Laboratories Inc., File No. E53793



TE has an expanding array of MADISON CABLE planar PVC insulated product designed for compatibility with a variety of Insulation Displacement Connectors. AMP IDC terminations offer a quick, reliable, cost-effective cabling system which can be automated.

The .100 [2.54] centerline cable is available in 28 to 22 AWG, either as tinned or as overcoated tinned wire, in 2 to 28 conductors.

The .156 [3.96] centerline is available in 22 AWG and 18 AWG, either as tinned or overcoated tinned, in 2 to 24 conductors.

IDC Ribbon Cable is produced to tighter standards than usually required for high yield insulation displacement terminations. The extra precision offers uncomplicated operation in fully automatic stripping, notching and termination equipment.

### .050 [1.27] Centerline, IDC Ribbon Cable

#### Product Specifications

**Voltage Rating**—30 vac

**Component Recognized by UL to US and Canadian Standards**—AWM Style 2651

#### Sizes

**26 AWG**, 7/34 Tinned copper, PVC insulation (9–64 conductors), 500 ft. reels (Base AMP Part Number 57034)

**28 AWG**, 7/36 Tinned copper, PVC insulation (9–64 conductors), 100 ft. reels (Base AMP Part Number 57040) and 500 ft. reels (Base AMP Part Number 971111)

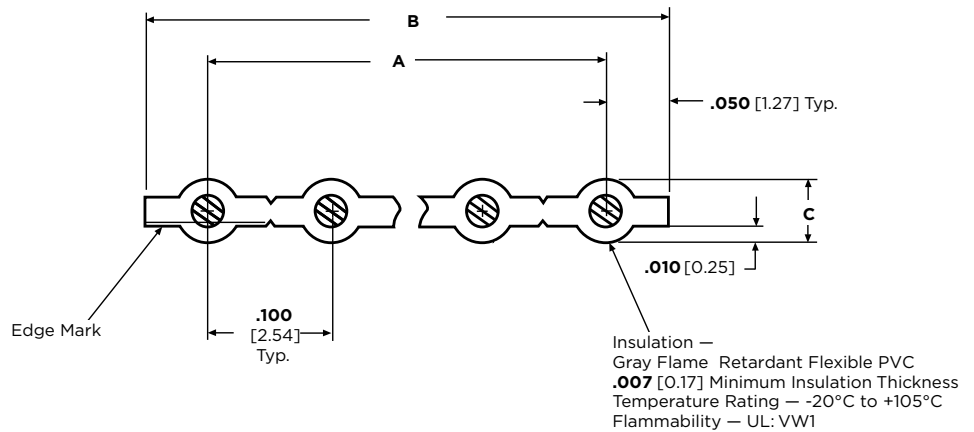
**30 AWG**, Other conductor counts available on request. For ordering information, call Toll-Free: **1-877-623-4766** or visit: [www.madisoncable.com/fsproducts.htm](http://www.madisoncable.com/fsproducts.htm)

# MTA, CST-100 II and SL-156 Connectors

## .100 [2.54] Centerline, IDC Ribbon Cable, PVC Insulation

### Product Specifications

**Housing** — 300 Volts  
**UL Recognized** — AWM Style 2651  
**CSA** — Available on request



No. of Conductors	Dimensions			Part Number
	A	B	C	
<b>28 AWG 7/32 Tinned Copper</b>				
2	0.100 [2.54]	0.200 [5.08]	0.044 [1.12]	02WFY00006P
5	0.400 [10.16]	0.500 [12.70]	0.044 [1.12]	05WFY00006P
10	0.900 [22.86]	1.000 [25.40]	0.044 [1.12]	10WFY00006P
15	1.400 [35.56]	1.500 [38.10]	0.044 [1.12]	15WFY00006P
20	1.900 [48.26]	2.000 [50.80]	0.044 [1.12]	20WFY00006P
25	2.400 [60.96]	2.500 [63.50]	0.044 [1.12]	25WFY00006P
28	2.700 [68.58]	2.800 [71.12]	0.044 [1.12]	28WFY00006P
<b>26 AWG 7/34 Tinned Copper</b>				
2	0.100 [2.54]	0.200 [6.08]	0.039 [.99]	02WEY00008P
5	0.400 [10.16]	0.500 [12.70]	0.039 [.99]	05WEY00004P
10	0.900 [22.86]	1.000 [25.40]	0.039 [.99]	10WEY00012P
15	1.400 [35.56]	1.500 [38.10]	0.039 [.99]	15WEY00002P
20	1.900 [48.26]	2.000 [50.80]	0.039 [.99]	20WEY00008P
25	2.400 [60.96]	2.500 [63.50]	0.039 [.99]	25WEY00008P
28	2.700 [68.58]	2.800 [71.12]	0.039 [.99]	28WEY00008P
<b>26 AWG 7/34 Overcoated Tinned Copper</b>				
2	0.100 [2.54]	0.200 [5.08]	0.039 [.99]	02WEY00007P
5	0.400 [10.16]	0.500 [12.70]	0.039 [.99]	05WEY00007P
10	0.900 [22.86]	1.000 [25.40]	0.039 [.99]	10WEY00007P
15	1.400 [35.56]	1.500 [38.10]	0.039 [.99]	15WEY00007P
20	1.900 [48.26]	2.000 [50.80]	0.039 [.99]	20WEY00007P
25	2.400 [60.96]	2.500 [63.50]	0.039 [.99]	25WEY00007P
28	2.700 [68.58]	2.800 [71.12]	0.03 [.99]	28WEY00007P

Other Conductor Counts Available on Request.

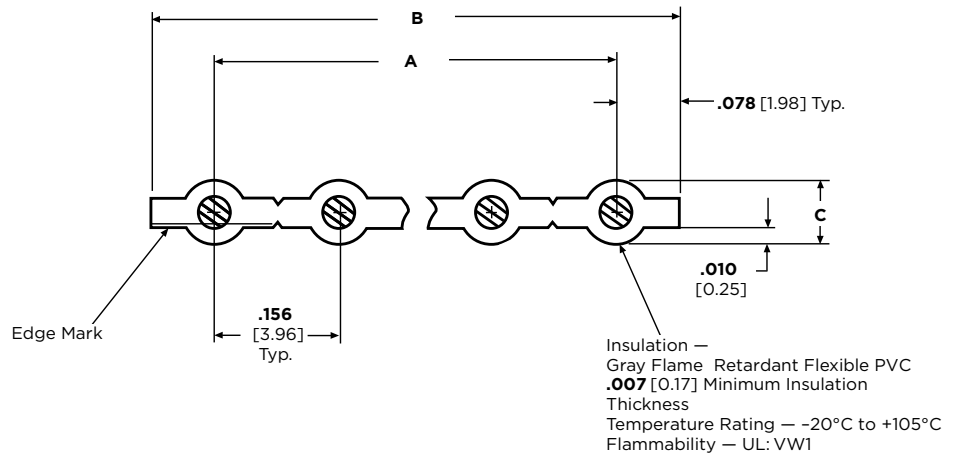
**Contact MADISON CABLE (1-877-MADISON), a division of TE Connectivity, for engineering questions or for order placement of this cable.**

No. of Conductors	Dimensions			Part Number
	A	B	C	
<b>24 AWG 7/32 Overcoated Tinned Copper</b>				
2	0.100 [2.54]	0.200 [5.08]	0.044 [1.12]	02WFY00007P
5	0.400 [10.16]	0.500 [12.70]	0.044 [1.12]	05WFY00007P
10	0.900 [22.86]	1.000 [25.40]	0.044 [1.12]	10WFY00007P
15	1.400 [35.56]	1.500 [38.10]	0.044 [1.12]	15WFY00007P
20	1.900 [48.26]	2.000 [50.80]	0.044 [1.12]	20WFY00007P
25	2.400 [60.96]	2.500 [63.50]	0.044 [1.12]	25WFY00007P
28	2.700 [68.58]	2.800 [71.12]	0.044 [1.12]	28WFY00007P
<b>22 AWG 7/30 Tinned Copper</b>				
2	0.100 [2.54]	0.200 [5.08]	0.051 [1.30]	02WGY00001P
5	0.400 [10.16]	0.500 [12.70]	0.051 [1.30]	05WGY00006P
10	0.900 [22.86]	1.000 [25.40]	0.051 [1.30]	10WGY00002P
15	1.400 [35.56]	1.500 [38.10]	0.051 [1.30]	15WGY00006P
20	1.900 [48.26]	2.000 [50.80]	0.051 [1.30]	20WGY00006P
25	2.400 [60.96]	2.500 [63.50]	0.051 [1.30]	25WGY00006P
28	2.700 [68.58]	2.800 [71.12]	0.051 [1.30]	28WGY00006P

## .156 [3.96] Centerline, Flat Ribbon Cable, PVC Insulation

### Product Specifications

- Housing** — 300 Volts
- UL Recognized** — AWM Style 2651
- CSA** — Available on request



No. of Conductors	Dimensions			Part Number
	A	B	C	
<b>22 AWG 7/30 Tinned Copper</b>				
2	0.156 [3.96]	0.312 [7.92]	0.051 [1.30]	02WGY00008P
5	0.624 [15.85]	0.780 [19.81]	0.051 [1.30]	05WGY00008P
10	1.404 [35.66]	1.560 [39.62]	0.051 [1.30]	10WGY00008P
15	2.184 [55.47]	2.340 [59.44]	0.051 [1.30]	15WGY00008P
20	2.964 [75.29]	3.120 [79.25]	0.051 [1.30]	20WGY00008P
24	3.588 [91.14]	3.744 [95.10]	0.051 [1.30]	24WGY00008P
<b>18 AWG 7/26 Tinned Copper</b>				
2	0.156 [3.96]	0.312 [7.92]	0.068 [1.73]	02WJY000001P
5	0.624 [15.85]	0.780 [19.81]	0.068 [1.73]	05WJY000010P
10	1.404 [35.66]	1.560 [39.62]	0.068 [1.73]	10WJY000010P
15	2.184 [55.47]	2.340 [59.44]	0.068 [1.73]	15WJY000010P
20	2.964 [75.29]	3.120 [79.25]	0.068 [1.73]	20WJY000010P
24	3.588 [91.14]	3.744 [95.10]	0.068 [1.73]	24WJY000010P

Other Conductor Counts Available on Request.

**Contact MADISON CABLE (1-877-MADISON), a division of TE Connectivity, for engineering questions or for order placement of this cable.**

### Prepared IDC Ribbon Cable

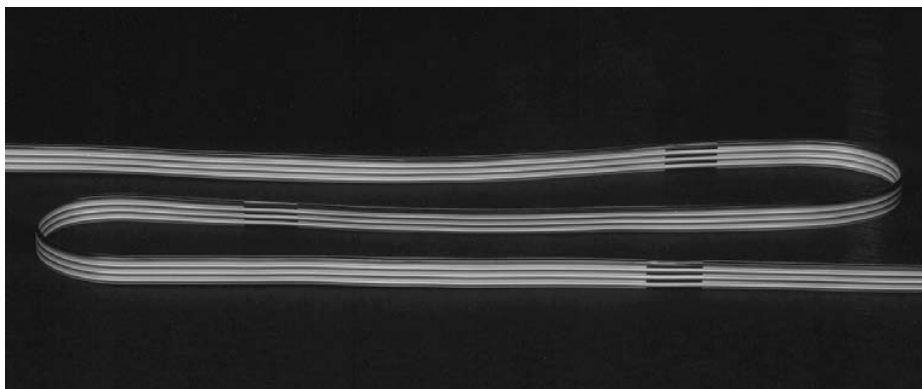


In addition to bulk cable, the US Engineering Cable Assembly Group offers Prepared Cable for the .100 [2.54] and .156 [3.96] centerline cables. This can be in the form of prenotched cable on reels or cut-to-length cable segments.

Prenotched 250 foot reels of cable can be produced with notches at varying increments or repeating all along the cable. The maximum width of these cables is 20 conductor for the .100 [2.54] centerline and 13 conductor for the .156 [3.96] centerline.

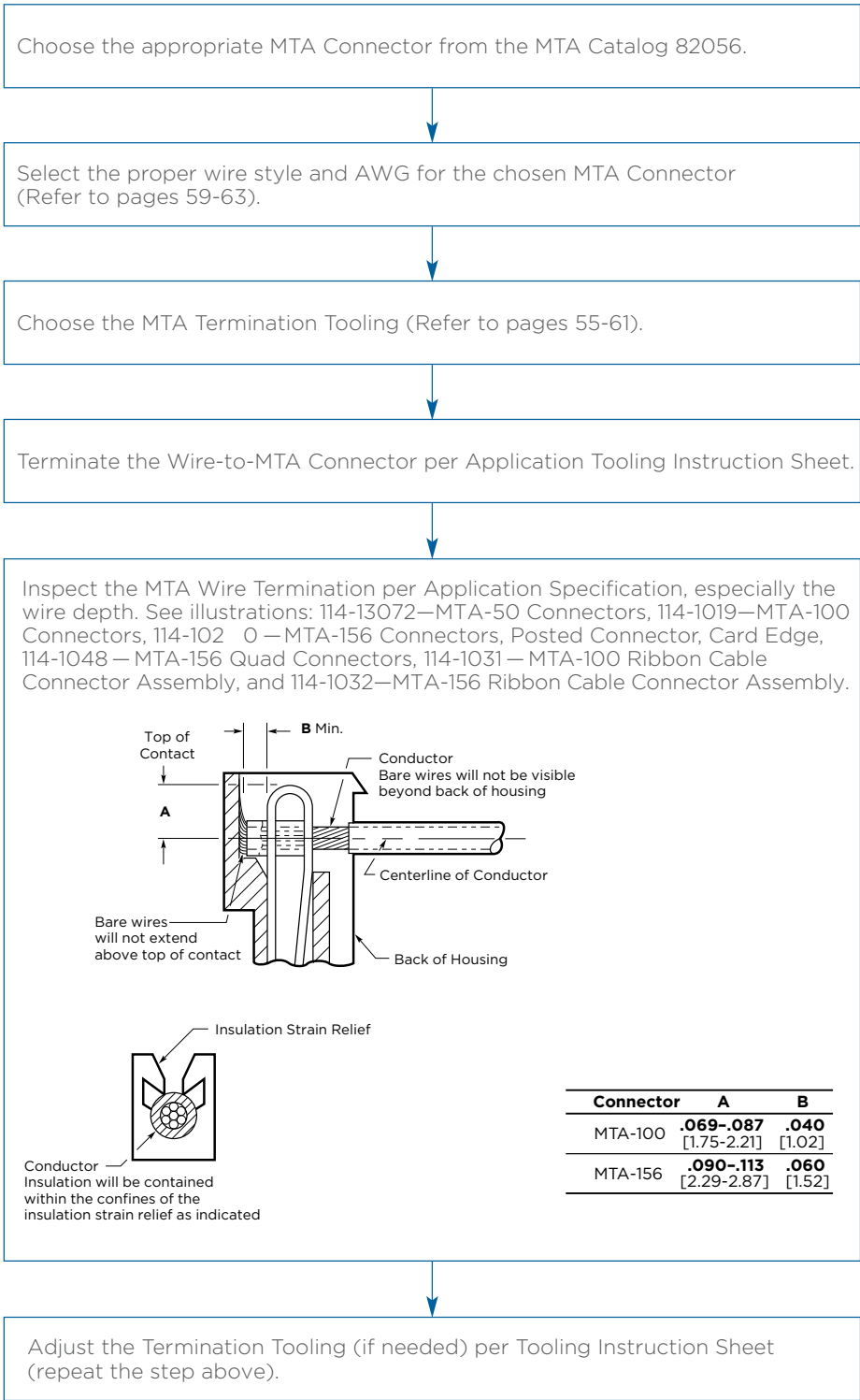
Prepared Cable is also available with a Strip and Retain feature allowing the

cable assembly to be soldered directly to the PC Board. This saves space and cost and reduces spare parts inventory. Strip and Retain on both ends is used in family board applications to maintain the electrical connection when the PC Board is separated into smaller boards after soldering. Widths are limited to 20 conductors for the .100 [2.54] centerline and 13 conductors for the .156 [3.96] centerline. However, multiple cables can be placed side-by-side in a single connector. For other styles and configurations contact the product engineer or product manager.





## MTA Wire Termination Flowchart



## MTA Application Tooling Options

### One-At-A-Time Termination Tooling Part Numbers

Note: Max. Insulation Outside Diameter Wire: .060 [1.52] for MTA-100 Connectors/.095 [2.41] for MTA-156 Connectors

MTA Connector Assembly		Interchangeable Head		Interchangeable Head and Loose-Piece Feed Track	Interchangeable Head and Tape Feed Track	Special Applicator	T-Handle Maintenance Tool
		Manual Hand Tool 58074-1 Air Hand Tool 58075-1 Air Bench Mount Tool 58338-1 Electric Bench Machine 931800-1	Air Bench Mount Tool 58338-1 Electric Bench Machine 931800-1				
MTA-50	Closed End Feed Thru			—	—	—	—
MTA-100 Connector	Closed End	58246-1 (Standard)*		933567-1	853546-1 & 853542-1 (Base)	466728-1	59803-1
		58246-2 (Ext Wear)					
		58246-3 (Ribbon Cable)					
	Feed Thru	58442-1	—	—	—	59803-1	
	Posted (Closed-End)	58638-1	—	—	—	59803-1	
MTA-156 Connector	Closed End	58247-1 (Standard)**		933568-1	853547-1 & 853542-1 (Base)	466727-1	59804-1
		58247-2 (Ext Wear)					
		58247-3 (Ribbon Cable)					
	Feed Thru	58443-1	—	—	—	59804-1	
	Posted (Closed-End)	58082-1	—	—	—	59804-1	
MTA-156 Card-Edge	Closed End	58061-1	—	—	—	567020-1	59839-1
MTA-156 Quad	Closed End	58392-1	—	—	—	—	59804-1

\*Repair Kit 856600-1 \*\*Repair Kit 856600-2

- Notes:**
1. A repair kit consists of a cam, a feed-slide sub-assembly and a locating pawl. Repair kits can be made available for other interchangeable heads. Consult TE.
  2. Standard modular heads 58246-1 and 58247-1 are recommended for low volume use.
  3. Extended wear modular heads 58246-2 and 58247-2 are recommended for high volume use.
  4. T-Handle Maintenance Tools are for maintenance (field) use only. They are not recommended for production.
  5. Some Manual Hand Tool Assemblies are available:
    - a. Order 58579-1, comprised of Head 58246-1 with Manual Hand Tool 58074-1.
    - b. Order 58580-1, comprised of Head 58247-1 with Manual Hand Tool 58074-1.
    - c. Order 58639-1, comprised of Head 58638-1 with Manual Hand Tool 58074-1.

### MTA-100 and MTA-156 Mass Termination Tooling Part Numbers

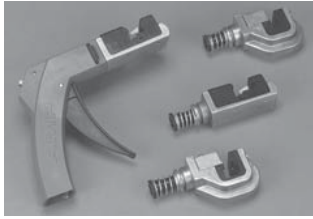
Note: Max. Insulation Outside Diameter Wire: .050 [1.27] for MTA-100 Connectors/.070 [1.78] for MTA-156 Connectors

Part Number	Harness Board Holding Fixture Used With		Interchangeable Head and Tape Feed Track	
	Applicator Assembly	Tooling Assembly	Part Number	Used With
58242-1	—	Manual Bench Tool 58024-1 and Tooling Assembly 58039-1	854175-1 & 854200-1 (Base)	312522-1
58242-3	58575-1			
58243-1	—		—	—
58243-3	58575-1		—	—
58635-1	58575-1	—	—	—
58636-1	58575-1	—	—	—
58244-1	—	Manual Bench Tool 58024-1 and Tooling Assembly 58040-1	854176-1 & 854200-1 (Base)	312522-1
58244-3	58576-1			
58245-1	—		—	—
58245-3	58576-1		—	—
58009-2	58576-1	—	—	—
58010-2	58576-1	—	—	—
58244-1	—	Manual Bench Tool 58024-1 and Tooling Assy 58040-1	—	—
58244-3	58576-1			
58245-1	—	58024-1 and Tooling Assy 58040-1	—	—
58245-3	58576-1			

2- through 12-positions." 2- through 8-positions.

## MTA Application Tooling Options (Continued)

### One-At-A-Time Termination Tooling (Typical Tooling Combinations)



**Manual Hand Tool with Interchangeable Head**



**Air Hand Tool with Interchangeable Head**



**Air Bench Mount Tool with Interchangeable Head and Foot Switch**



**Electric Bench Machine with Interchangeable Head**

### Power Units

#### Manual Hand Tool — Pistol Grip Handle Part No. 58074-1

- Easy to use
- Ratchet control will not release the trigger until it is fully bottomed
- Head may be rotated for user convenience

#### Air Hand Tool — Pistol Grip Pneumatic Handle Part No. 58075-1

- Light weight
- Operates at air pressure between 40 and 70 psi [2.76 and 4.83 bar]
- Head may be rotated for user convenience

#### Air Bench Mount Tool — Bench Mount Power Assembly Part No. 58338-1

- May be mounted with interchangeable head pointed up or down
- Operated by a foot switch
- Operates at air pressure between 40 and 70 psi [2.76 and 4.83 bar]

#### Electric Bench Machine — IDC Power Unit Part No. 931800-1

- All electric: 120 VAC, 60 Hz, 2 A
- Compact, portable and quiet
- Operated by a foot switch



**Air Bench Mount Tool with Interchangeable Head and Loose-Piece Feed Track**



**Electric Bench Machine with Interchangeable Head and Tape Feed Track**

### Interchangeable Heads and Applicators (Refer to page 58 for part numbers.)

#### Interchangeable Head

- Terminates one unstripped wire per cycle
- Aligns and holds the connector in place for each termination
- Automatically advances the connector after each terminator



#### Interchangeable Head and Loose-Piece Feed Track

- No special setup required
- Connectors are easily loaded into feed track
- Connectors are fed using a simple spring-loaded pusher

#### T-Handle Maintenance Tool

#### Interchangeable Head and Tape Feed Track

- No special setup required
- Tape-mounted connectors are transferred from product reel to feed track by simply pulling on the free end of the carrier tape
- Connectors are fed using a simple spring-loaded pusher

#### Special Applicator

- Connectors are easily hand loaded into feed track
- Automatically advances the connector after each termination
- Cannot be cycled until the connector is properly positioned

## MTA Application Tooling Options (Continued)

### Mass Termination Tooling (Typical Tooling Combinations)



**Manual Bench Tool with Applicator and Holding Fixture**



**Air Harness Tool with Applicator**



**2700 lb Air Bench Machine with Ribbon Cable Notcher Assembly**

### Power Units

#### Manual Bench Tool — Arbor Frame Assembly Part No. 58024-1

- Applicator and holding fixture can be oriented for operator convenience for closed-end or feed-thru terminations
- Ram height (insertion depth) is easily adjusted
- May be bench mounted

#### Air Harness Tools — Hand-Held Power Unit with Applicator Part No. 58575-1 (MTA-100) Part No. 58576-1 (MTA-156)

- Applicator can be rotated 360° for orientation with holding fixture
- Insertion depth is easily adjusted
- Operates at air pressure between 75 and 95 psi [5.17 and 6.55 bar]

#### 2700 lb Air Bench Machine — Part No. 312522-1

- Operated by a foot switch
- Capable of exerting 2,700 lb [12,000 N] of force at minimum 80 psi [5.52 bar] air pressure
- May be bench mounted

## Applicators and Notcher Assemblies



**Manual Bench Tool with Applicator and Tape Feed Track**

#### Applicator and Holding Fixture

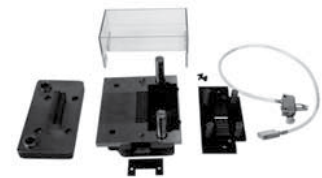
- Wires are laced into plastic combs for mass termination
- Trims excess wire for closed-end terminations
- Holding fixture may be mounted to a harness board

#### Applicator and Tape Feed Track

- Tape-mounted connectors are transferred from product reel to feed track by simply pulling on the free end of the carrier tape
- Connectors are fed using a simple spring-loaded pusher
- Feed stop easily adjusted for different connector sizes

#### Ribbon Cable Notcher Assembly

- Notch cable with up to 28 conductors for .100 centerline, and 24 conductors for .156 centerline
- Pressure plate holds cable in position during notching
- Scrap conveniently removed through a chute with a blast of air from a built-in air valve



**Ribbon Cable Notcher Assembly**

Part Number	Wire Size AWG	Centerline	Used With
854449-2	26-28	.100 2.54	Manual Bench Tool 58024-1
854449-4	22-28	.100 2.54	Air Bench Machine 91112-2
854449-3	18-24	.156 3.96	2700 lb Bench Machine 312522-1 AMP-O-LECTRIC Bench Machine 1-471273-3 (with Conversion Kit 690675-2)

Use Adapter 854468-1 when putting Notcher in the AMP-O-LECTRIC Machine. Use Adapter 854468-2 when putting Notcher in the 2700 lb Air Bench Machine.

## Typical Application Rates

### Produce 6-in. [15 cm] Long Jumpers, One 4-Position MTA-100 Connector per End, Discrete Wire

Method	Terminations Per Hour
Manual Hand Tool 58074-1 with Interchangeable Head 58246-1	—
Electric Bench Machine 931800-1 with Interchangeable Head 58246-1	900
Electric Bench Machine 931800-1 with Interchangeable Head and Loose-Piece Feed Track 933567-1	1,100
Electric Bench Machine 931800-1 with Interchangeable Head and Tape Feed Track 853546-1 and 853542-1 (Base)	1,250

### Apply One 4-Position MTA-100 Feed-Thru Connector per Assembly, Discrete Wire

Method	Terminations Per Hour
Manual Bench Tool 58024-1 with Applicator and Holding Fixture	650

For further information about tooling call Technical Support.

### Produce 6-in. [15 cm] Long Jumpers, One 4-Position MTA-100 Connector per End, Ribbon Cable\*

Method	Terminations Per Hour
2700 lb Air Bench Machine 312522-1 with Applicator and Tape Feed Track 854175-1 and 854200-1 (Base)	7,500

\* Procedure: Mass terminate 12-conductor ribbon cable with three connectors per end. After terminating, separate by tearing the 12-conductor assembly into three 4-conductor assemblies.

### Cable Notching

Method	Cable Ends Per Hour
2700 lb Air Bench Machine 312522-1 with Ribbon Cable Notcher Assembly 854449-2 and 854468-2 (Adapter)	1,000

## Part Number Index

**Note:** This index lists all cataloged parts by base no. only. Complete part nos. (with prefixes and/or suffixes) are shown on the page(s) indicated.

Part No.	Page	Part No.	Page	Part No.	Page		
02WEY00007P	61	640389	42	640642	9	641220	31
02WEY00008P	61	640426	30	640643	33	641221	31
02WFY00006P	61	640427	30	640706	48	641222	31
02WFY00007P	61	640428	30	640707	48	641223	31
02WGY00001P	61	640429	30	640708	10	641224	31
02WGY00008P	62	640430	30	640709	10	641225	31
02WJY000001P	62	640431	30	641113	39	641226	31
05WEY00004P	61	640432	30	641119	41	641231	32
05WEY00007P	61	640433	30	641120	41	641232	32
05WFY00006P	61	640434	30	641121	42	641233	32
05WFY00007P	61	640435	30	641122	14	641234	32
05WGY00006P	61	640440	8	641123	14	641235	32
05WGY00008P	62	640441	8	641124	16	641236	32
05WJY000010P	62	640442	8	641125	16	641237	8
10WEY00007P	61	640443	8	641126	17	641238	8
10WEY00012P	61	640445	41	641127	17	641239	8
10WFY00006P	61	640452	14	641143	34	641240	8
10WFY00007P	61	640453	14	641144	34	641241	8
10WGY00002P	61	640454	16	641145	34	641242	8
10WGY00008P	62	640455	16	641146	34	641243	8
10WJY000010P	62	640456	17	641147	34	641244	8
15WEY00002P	61	640457	17	641148	30	641302	32
15WEY00007P	61	640468	8	641149	30	641311	8
15WFY00006P	61	640469	8	641150	30	641312	8
15WFY00007P	61	640470	8	641151	30	641313	8
15WGY00006P	61	640471	8	641152	30	641314	8
15WGY00008P	62	640472	30	641153	30	641425	38
15WJY000010P	62	640473	30	641154	30	641426	38
20WEY00007P	61	640474	30	641155	30	641427	38
20WEY00008P	61	640477	30	641156	30	641428	38
20WFY00006P	61	640480	30	641157	30	641429	38
20WFY00007P	61	640550	9	641158	32	641435	38
20WGY00006P	61	640551	33	641170	32	641436	38
20WGY00008P	62	640556	34	641175	32	641437	38
20WJY000010P	62	640557	34	641186	10	641438	38
24WEY00007P	61	640558	34	641187	10	641439	38
24WEY00008P	61	640559	34	641188	10	641440	38
24WFY00006P	61	640595	32	641189	10	641522	38
24WFY00007P	61	640599	32	641190	8	641523	38
24WGY00006P	61	640600	32	641191	8	641524	38
24WGY00008P	62	640601	32	641192	8	641525	38
24WJY000010P	62	640602	32	641193	8	641526	38
25WEY00007P	61	640604	32	641198	8	641533	35
25WEY00008P	61	640605	32	641199	8	641534	8
25WFY00006P	61	640606	32	641200	8	641535	8
25WFY00007P	61	640607	32	641201	8	641536	8
25WGY00006P	61	640608	32	641202	39	641537	8
28WEY00007P	61	640620	8	641203	39	641550	48
28WEY00008P	61	640621	8	641204	40	641623	35
28WFY00006P	61	640622	8	641207	42	641643	9
28WFY00007P	61	640623	8	641208	41	641644	9
28WGY00006P	61	640629	35	641209	41	641645	9
57034	60	640630	35	641210	42	641646	9
57040	60	640631	34	641211	14	641653	8
350980	48, 49	640632	34	641212	14	641654	8
640250	49	640633	34	641213	16	641655	8
640251	49	640634	34	641214	16	641656	8
640252	48, 49	640635	34	641215	17	641994	10
640383	39	640636	10	641216	17	643067	33
640384	39	640637	10	641217	31	643071	33
640385	40	640638	10	641218	31	643075	9
640387	42	640639	10	641219	31	643077	9
640388	41						

## Part Number Index (Continued)

Part No.	Page	Part No.	Page	Part No.	Page	Part No.	Page
643498	8	644615	43	647004	13	647481	38
643813	8	644617	44	647005	13	647485	51
643814	8	644631	43	647006	13	647496	32
643815	8	644633	44	647007	13	647497	38
643816	8	644662	30	647008	13	647609	17
643817	30	644663	30	647009	13	647623	17
643818	30	644687	30	647010	13	647624	17
643819	30	644694	15	647011	13	647625	17
643820	30	644695	15	647012	13	647626	17
643821	30	644702	8	647013	13	647627	17
643828	8	644718	32	647014	13	647628	19
643995	38	644720	32	647015	13	647629	19
644020	8	644726	8	647016	13	647630	19
644038	8	644749	39	647017	13	647646	40
644040	8	644750	39	647018	13	647648	45
644042	8	644751	40	647019	13	647649	45
644043	8	644752	41	647020	13	647651	19
644044	8	644753	41	647021	13	647652	19
644082	30	644754	42	647022	13	647653	19
644083	8	644755	42	647023	13	770258	48
644284	30	644756	39	647030	13	770476	48, 51
644312	8	644759	41	647031	13	770522	48
644313	8	644760	41	647032	13	770849	49
644456	15	644761	42	647033	13	770894	50
644457	15	644763	39	647047	20	971111	53
644460	30	644766	41	647048	20	1375819	24
644461	30	644767	41	647050	21	1375820	24
644462	30	644768	42	647051	21	1445336	24
644463	30	644769	42	647075	20	1744017	41
644464	30	644783	30	647076	20	1744020	8
644465	32	644791	30	647078	21		
644466	32	644795	8	647079	21		
644467	32	644803	23	647106	22		
644468	32	644807	38	647107	22		
644469	32	644809	38	647108	22		
644470	32	644812	38	647109	20		
644471	32	644814	38	647114	20		
644486	23	644860	30	647116	21		
644487	23	644861	23	647117	21		
644488	23	644874	17	647123	46		
644489	23	644875	17	647125	46		
644497	8	644876	16	647127	46		
644501	30	644877	16	647166	22		
644502	30	644878	30	647167	22		
644511	8	644884	15	647168	22		
644512	8	644885	15	647295	21		
644513	8	644886	15	647296	21		
644514	8	644887	15	647297	21		
644540	8	644888	15	647298	20		
644563	8	644889	15	647299	20		
644564	8	644890	15	647300	20		
644565	8	644891	15	647400	51		
644566	30	644892	25	647401	51		
644570	30	644893	25	647402	51		
644574	8	644894	25	647406	51		
644575	8	644896	25	647409	51		
644576	8	644897	25	647466	51		
644577	8	644898	25	647476	38		
644578	8	647000	13	647477	8		
644579	8	647001	13	647478	30		
644611	43	647002	13	647479	32		
644613	44	647003	13	647480	8		

## Application Tooling Part Number Index

Part No.	Page	Part No.	Page	Part No.	Page	Part No.	Page
58009	58, 61	58517	24	91112	60, 61	854175	58, 61
58010	58, 61	58575	58, 60, 61	312522	58, 60, 61	854176	58, 61
58024	58, 60, 61	58576	58, 60, 61	354500	61	854200	58, 61
58039	58, 61	58579	58	466468	48	854449	60
58040	58, 61	58614	48	466727	58, 61	854468	60, 61
58061	58, 61	58635	58, 61	466728	58, 61	856600	58, 61
58074	58, 60, 61	58636	58, 61	466747	10	931800	58, 60, 61
58075	58, 59	58638	58, 61	466947	48	933567	58, 61
58082	58, 61	58639	58	471273	60, 61	933568	58, 61
58242	58, 61	58644	58, 61	567020	58, 61	1583503	58, 61
58243	58, 61	58646	58, 61	567373	24	1583514	58, 61
58244	58, 61	59803	58, 61	567827	24	1583515	58, 61
58245	58, 61	59804	58, 61	567828	48	1583516	58, 61
58246	58, 61	59836	10	567910	24	1583517	58, 61
58247	58, 61	59837	34	680211	48	1583518	58, 61
58338	58, 60, 61	59839	58	690675	60, 61		
58392	58, 61	59845	61	853542	58, 61		
58442	58, 61	59848	47, 50	853546	58, 61		
58443	58, 61	90471	48	853547	58, 61		



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