

## MTA-156 IDC Connectors — Closed End

### Material and Finish

**Housing** — UL94V-2 rated, type 6/6 or 6/12 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

### UL94V-2 Color Coding by Wire Size

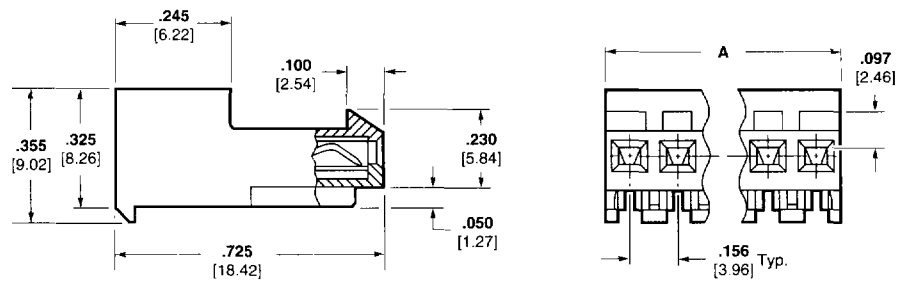
- 26 AWG — Blue
- 24 AWG — White
- 22 AWG — Red
- 20 AWG — Yellow
- 18 AWG — Orange

UL94V-0 — Black

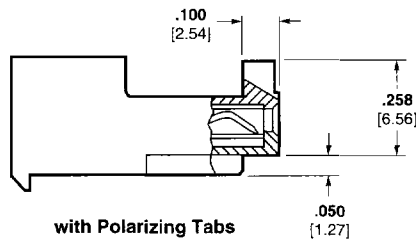
### Notes:

1. Only connectors with locking ramp and without polarizing tabs mate with posted connectors on page 27.
2. Refer to pages 42 thru 46 for approved wire listing.
3. For strain reliefs and dust covers, see pages 24 and 25.
4. For keying plugs and panel mount end caps, see page 26.

### Closed End with Locking Ramp



without Polarizing Tabs

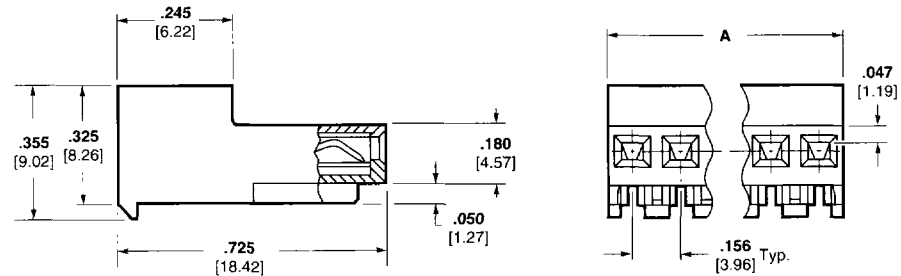


with Polarizing Tabs

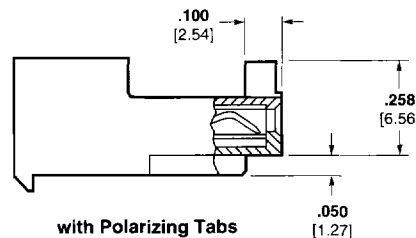
For mateability options, see matrix on pages 18 and 19.

Mating half visuals for Closed End Connectors with Locking Ramp, see pages 28, 29, 30 and 32, (31 and 33 Front Bend Headers Only).

### Closed End without Locking Ramp



without Polarizing Tabs



with Polarizing Tabs

For mateability options, see matrix on pages 18 and 19.

Mating half visuals for Closed End Connectors without Locking Ramp, see pages 28 thru 33.

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.156 [3.96]

## 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

**1- -0**

The correct ordering number is

**1-640426-0**

#### Notes:

- Only connectors with locking ramp and without polarizing tabs mate with posted connectors on page 27.
- Other circuit sizes are available upon request. Minimums may apply.
- Connector circuits can be molded closed for keying purposes. Minimums may apply.
- Where no part numbers appear in the chart, parts can be made available upon request. Minimums may apply.

### UL94V-2 Color Coding by Wire Size

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

**UL94V-0** — Black

### Connector Length

No. of Circuits	Dim. A	Prefix/Suffix
2	.312 7.92	-2
3	.468 11.89	-3
4	.624 15.85	-4
5	.780 19.81	-5
6	.936 23.77	-6
7	1.092 27.74	-7

### 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.	No. of Circuits	Connector Part Nos.	No. of Circuits	Connector Part Nos.	No. of Circuits	Connector Part Nos.	No. of Circuits
<b>Standard UL94V-2, Tin Plated</b>								
<b>18 AWG</b> 0.8-0.9 mm <sup>2</sup>	640426	2-24	643817	2-24	640431	2-24	644461 <sup>2</sup>	2-14
<b>20 AWG</b> 0.5-0.6 mm <sup>2</sup>	640427	2-24	643818	2-24	640432	2-24	644462 <sup>2</sup>	2-14
<b>22 AWG</b> 0.3-0.4 mm <sup>2</sup>	640428	2-24	643819	2-24	640433	2-24	644463 <sup>2</sup>	2-14
<b>24 AWG</b> 0.2 mm <sup>2</sup>	640429	2-24	643820	2-24	640434	2-24	644464 <sup>2</sup>	2-14
<b>26 AWG</b> 0.12-0.15 mm <sup>2</sup>	640430	2-24	643821	2-24	640435	2-24	—	—
<b>Tape Mounted on Reel UL94V-2, Tin Plated</b>								
<b>18 AWG</b> 0.8-0.9 mm <sup>2</sup>	640472	2-24	644878	2-24	640477	2-24	—	—
<b>20 AWG</b> 0.5-0.6 mm <sup>2</sup>	640473	2-24	—	—	640478	2-24	—	—
<b>22 AWG</b> 0.3-0.4 mm <sup>2</sup>	640474	2-24	644783	2-24	640479	2-24	644791 <sup>2</sup>	2-14
<b>24 AWG</b> 0.2 mm <sup>2</sup>	640475	2-24	—	—	640480	2-24	—	—
<b>26 AWG</b> 0.12-0.15 mm <sup>2</sup>	640476	2-24	—	—	640481	2-24	—	—
<b>Standard UL94V-2, .000030 [0.00076] Gold Plated</b>								
<b>18 AWG</b> 0.8-0.9 mm <sup>2</sup>	641217	2-24	644460 <sup>2</sup>	2-12	641222	2-24	—	—
<b>20 AWG</b> 0.5-0.6 mm <sup>2</sup>	641218	2-24	644663 <sup>2</sup>	2-12	641223	2-24	—	—
<b>22 AWG</b> 0.3-0.4 mm <sup>2</sup>	641219	2-24	644662 <sup>2</sup>	2-12	641224	2-24	644687 <sup>2</sup>	2-14
<b>24 AWG</b> 0.2 mm <sup>2</sup>	641220	2-24	—	—	641225	2-24	—	—
<b>26 AWG</b> 0.12-0.15 mm <sup>2</sup>	641221	2-24	—	—	641226	2-24	—	—
<b>Standard UL94V-2, .000015 [0.00038] Gold Plated</b>								
<b>18 AWG</b> 0.8-0.9 mm <sup>2</sup>	641148	2-24	644284 <sup>2</sup>	2-12	641153	2-24	—	—
<b>20 AWG</b> 0.5-0.6 mm <sup>2</sup>	641149	2-24	—	—	641154	2-24	—	—
<b>22 AWG</b> 0.3-0.4 mm <sup>2</sup>	641150	2-24	—	—	641155	2-24	—	—
<b>24 AWG</b> 0.2 mm <sup>2</sup>	641151	2-24	—	—	641156	2-24	—	—
<b>26 AWG</b> 0.12-0.15 mm <sup>2</sup>	641152	2-24	—	—	641157	2-24	—	—
<b>Standard UL94V-0, Tin Plated</b>								
<b>18 AWG</b> 0.8-0.9 mm <sup>2</sup>	644860	2-12	—	—	644502 <sup>2</sup>	2-12	644082 <sup>2</sup>	2-12
<b>22 AWG</b> 0.3-0.4 mm <sup>2</sup>	—	—	—	—	644501 <sup>2</sup>	2-12	644566 <sup>2</sup>	2-12

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No. of Circuits	Dim. A	Prefix/Suffix
8	1.248 31.7	-8
9	1.404 35.66	-9
10	1.560 39.62	1- -0
11	1.716 43.59	1- -1
12	1.872 47.55	1- -2
13	2.028 51.51	1- -3

No. of Circuits	Dim. A	Prefix/Suffix
14	2.184 55.47	1- -4
15	2.340 59.44	1- -5
16	2.496 63.4	1- -6
17	2.652 67.36	1- -7
18	2.808 71.32	1- -8
19	2.964 75.29	1- -9

No. of Circuits	Dim. A	Prefix/Suffix
20	3.120 79.25	2- -0
21	3.276 83.21	2- -1
22	3.432 87.17	2- -2
23	3.588 91.14	2- -3
24	3.744 95.1	2- -4

## MTA-156 IDC Connectors — Feed-Thru

### Material and Finish

**Housing** — UL94V-2 rated, type 6/6 or 6/12 nylon, see below for color; or UL94V-0 rated, nylon, black

**Contacts** — Phosphor bronze; post tin plated, .000030 [.00076] or .000015 [.00038] post gold plated over nickel

### UL94V-2 Color Coding by Wire Size

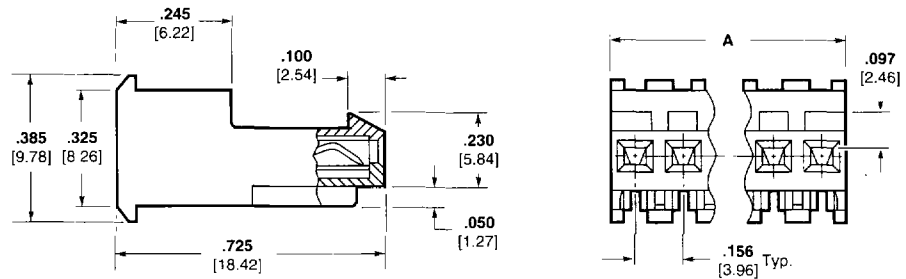
- 26 AWG — Blue
- 24 AWG — White
- 22 AWG — Red
- 20 AWG — Yellow
- 18 AWG — Orange

UL94V-0 — Black

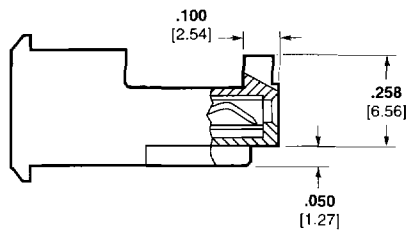
### Notes:

1. Only connectors with locking ramp and without polarizing tabs mate with posted connectors on page 27.
2. Refer to pages 42 thru 46 for approved wire listing.
3. For strain reliefs and dust covers, see pages 24 and 25.
4. For keying plugs and panel mount end caps, see page 26.

### Feed-Thru with Locking Ramp



without Polarizing Tabs

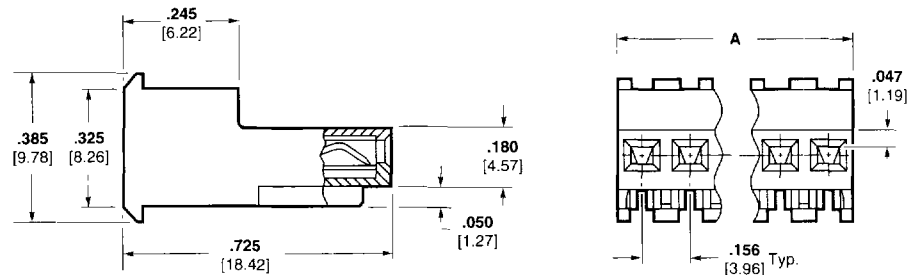


with Polarizing Tabs

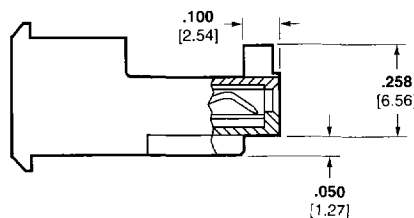
For mateability options, see matrix on pages 18 and 19.

Mating half visuals for Feed-Thru Connectors with Locking Ramp, see pages 28, 29, 30 and 32. (31 and 33 Front Bend Headers Only).

### Feed-Thru without Locking Ramp



without Polarizing Tabs



with Polarizing Tabs

For mateability options, see matrix on pages 18 and 19.

Mating half visuals for Feed-Thru Connectors without Locking Ramp, see pages 28 thru 33.

## 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

**1- -0**

The correct ordering number is

**1-640599-0**

#### Notes:

1. Only connectors with locking ramps and without polarizing tabs mate with posted connectors on page 27.
2. Other circuit sizes are available upon request. Minimums may apply.
3. Connector circuits can be molded closed for keying purposes. Minimums may apply.
4. Where no part numbers appear in the chart, parts can be made available upon request. Minimums may apply.

### UL94V-2 Color Coding by Wire Size

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

**UL94V-0** — Black

### Connector Length

No. of Circuits	Dim. A	Prefix/Suffix
2	.312 7.92	-2
3	.468 11.89	-3
4	.624 15.85	-4
5	.780 19.81	-5
6	.936 23.77	-6
7	1.092 27.74	-7

### 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.	No. of Circuits	Connector Part Nos.	No. of Circuits	Connector Part Nos.	No. of Circuits	Connector Part Nos.	No. of Circuits
<b>Standard UL94V-2, Tin Plated</b>								
<b>18 AWG</b> 0.8-0.9 mm <sup>2</sup>	640599	2-24	644465	2-14	640604	2-24	644469	2-14
<b>20 AWG</b> 0.5-0.6 mm <sup>2</sup>	640600	2-24	644466	2-14	640605	2-24	644470	2-14
<b>22 AWG</b> 0.3-0.4 mm <sup>2</sup>	640601	2-24	644467	2-14	640606	2-24	644471	2-14
<b>24 AWG</b> 0.2 mm <sup>2</sup>	640602	2-24	644468	2-14	640607	2-24	644472	2-14
<b>26 AWG</b> 0.12-0.15 mm <sup>2</sup>	640595	2-24	—	—	640608	2-24	—	—
<b>Tape Mounted on Reel UL94V-2, Tin Plated</b>								
<b>18 AWG</b> 0.8-0.9 mm <sup>2</sup>	641302	2-24	—	—	641306	2-24	—	—
<b>20 AWG</b> 0.5-0.6 mm <sup>2</sup>	641303	2-24	—	—	641307	2-24	—	—
<b>22 AWG</b> 0.3-0.4 mm <sup>2</sup>	641304	2-24	—	—	641308	2-24	—	—
<b>24 AWG</b> 0.2 mm <sup>2</sup>	641305	2-24	—	—	641309	2-24	—	—
<b>26 AWG</b> 0.12-0.15 mm <sup>2</sup>	641301	2-24	—	—	641310	2-24	—	—
<b>Standard UL94V-2, .00003 [.00076] Gold Plated</b>								
<b>18 AWG</b> 0.8-0.9 mm <sup>2</sup>	641227	2-24	644718	2-14	641232	2-24	—	—
<b>20 AWG</b> 0.5-0.6 mm <sup>2</sup>	641228	2-24	—	—	641233	2-24	—	—
<b>22 AWG</b> 0.3-0.4 mm <sup>2</sup>	641229	2-24	644720	2-14	641234	2-24	—	—
<b>24 AWG</b> 0.2 mm <sup>2</sup>	641230	2-24	—	—	641235	2-24	—	—
<b>26 AWG</b> 0.12-0.15 mm <sup>2</sup>	641231	2-24	—	—	641236	2-24	—	—
<b>Standard UL94V-2, .000015 [.00038] Gold Plated</b>								
<b>18 AWG</b> 0.8-0.9 mm <sup>2</sup>	641168	2-24	—	—	641173	2-24	—	—
<b>20 AWG</b> 0.5-0.6 mm <sup>2</sup>	641169	2-24	—	—	641174	2-24	—	—
<b>22 AWG</b> 0.3-0.4 mm <sup>2</sup>	641170	2-24	—	—	641175	2-24	—	—
<b>24 AWG</b> 0.2 mm <sup>2</sup>	641171	2-24	—	—	641176	2-24	—	—
<b>26 AWG</b> 0.12-0.15 mm <sup>2</sup>	641172	2-24	—	—	641177	2-24	—	—
<b>Standard UL94V-0, Tin Plated</b>								
<b>18 AWG</b> 0.8-0.9 mm <sup>2</sup>	—	—	—	—	644567	2-12	644570	2-12
<b>22 AWG</b> 0.3-0.4 mm <sup>2</sup>	—	—	—	—	644569	2-12	644572	2-12

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

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## MTA-156 Connector Accessories

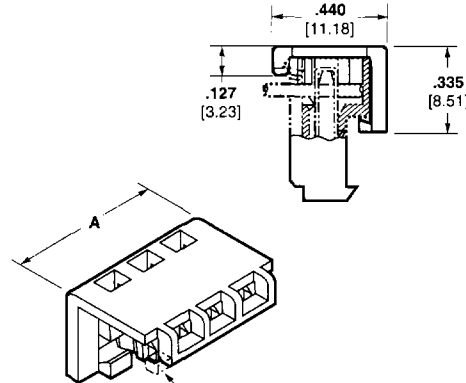
### Closed End Covers

#### Material

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

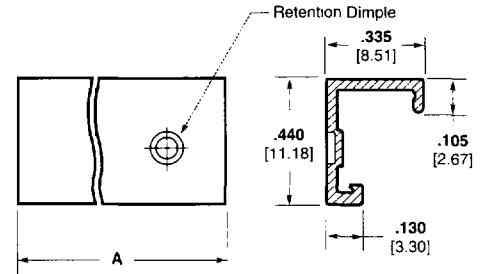
**Dust Covers** — UL94V-0 rated, polyester, white

### Strain Relief Covers



Note: This portion of front locking bar may or may not be present

### Dust Covers



### 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**

### 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
643067	2-24	640551	2-24	643071	2-24	640643	2-24

### 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	.312 7.92	-2	8	1.248 31.7	-8	14	2.184 55.47	1- -4	20	3.120 79.25	2- -0
3	.468 11.89	-3	9	1.404 35.66	-9	15	2.340 59.44	1- -5	21	3.276 83.21	2- -1
4	.624 15.85	-4	10	1.560 39.62	1- -0	16	2.496 63.4	1- -6	22	3.432 87.17	2- -2
5	.780 19.81	-5	11	1.716 43.59	1- -1	17	2.652 67.36	1- -7	23	3.588 91.14	2- -3
6	.936 23.77	-6	12	1.872 47.55	1- -2	18	2.808 71.32	1- -8	24	3.744 95.1	2- -4
7	1.092 27.74	-7	13	2.028 51.51	1- -3	19	2.964 75.29	1- -9			

## MTA-156 Connector Accessories (Continued)

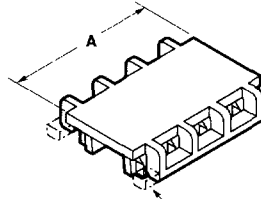
### Feed-Thru Covers

#### Material

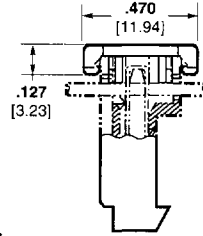
**Strain Relief Covers** — UL94V-2 rated, nylon, white

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

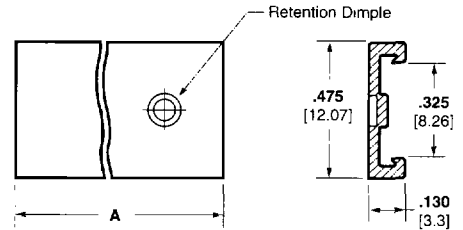
### Strain Relief Covers



Note: This portion of front locking bar may or may not be present



### Dust Covers



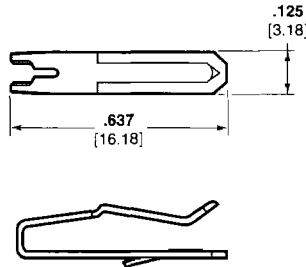
### Replacement IDC Contacts

#### Material and Finish

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

#### Notes:

- AMP does not recommend terminating an MTA contact more than one time. Use replacement contacts when required for field repairs or wire changes.

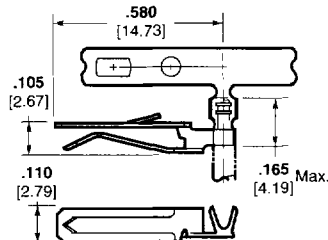


Wire Size		Part Numbers		
AWG	mm <sup>2</sup>	Tin Plated	.000030 [0.00076] Gold Plated	.000015 [0.00038] Gold Plated
18	0.8-0.9	640631-2	641143-2	641143-1
20	0.5-0.6	640632-2	641144-2	641144-1
22	0.3-0.4	640633-2	641145-2	641145-1
24	0.2	640634-2	641146-2	641146-1
26	0.12-0.15	640635-2	641147-2	641147-1

### Crimp Snap-in Contacts

#### Material and Finish

**Contacts** — Phosphor bronze, tin plated



Wire Size		Part Nos.	
AWG	mm <sup>2</sup>	Loose Piece*	Strip**
22-18	0.3-0.9	640559-1	640558-1

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

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

Note: Requires applicator. For part number, call the AMP Tooling Assistance Center at 1-800-722-1111

Special applications for crimp snap-in contacts are:

- Double wire per contact
- Coax or shielded wire
- Mixed wire size in same connector

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

## MTA-156 Connector Accessories (Continued)

### Keying Plugs

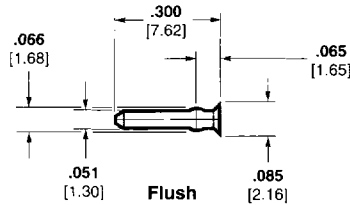
#### Material

UL94V-2 rated, type 6/6 nylon,  
natural color

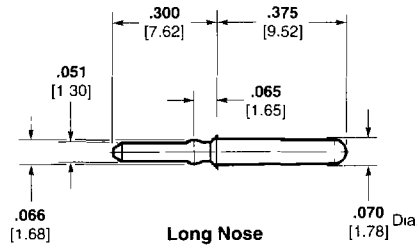
**Note:** Removal of contact is not  
necessary when using keying plug.

#### Loose Piece

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

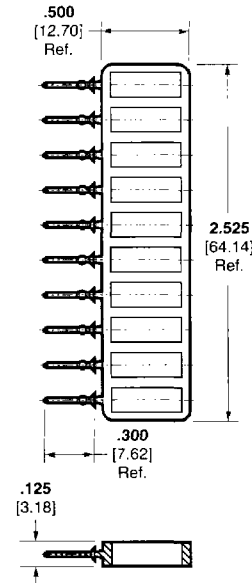


**Part No. 640630-1 (Long Nose)**  
Used with staked post



#### On Carrier Strip

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



### Panel Mount End Caps

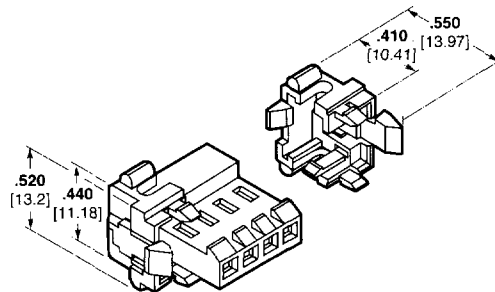
**Part No. 641440-1**  
**Part No. 641533-1**  
(2-position only)

#### Material

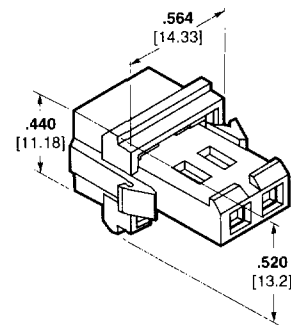
UL94V-2 rated, nylon, black

#### 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 20 thru 23. While not preferred, panel mount end caps can be attached to MTA-156 (IDC) post-staked connector on page 27.

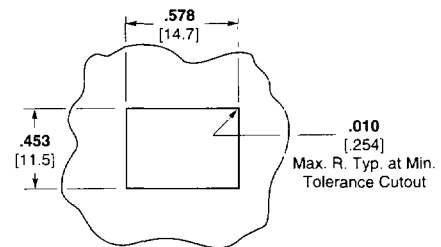
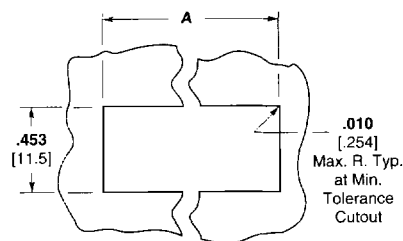


**3- thru 24-Position**  
**641440-1**  
See Note 1



**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-156  
.156 [3.96]