

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 [.00076] or .000015 [.00038] post gold plated over nickel

UL94V-2 Color Coding by Wire Size

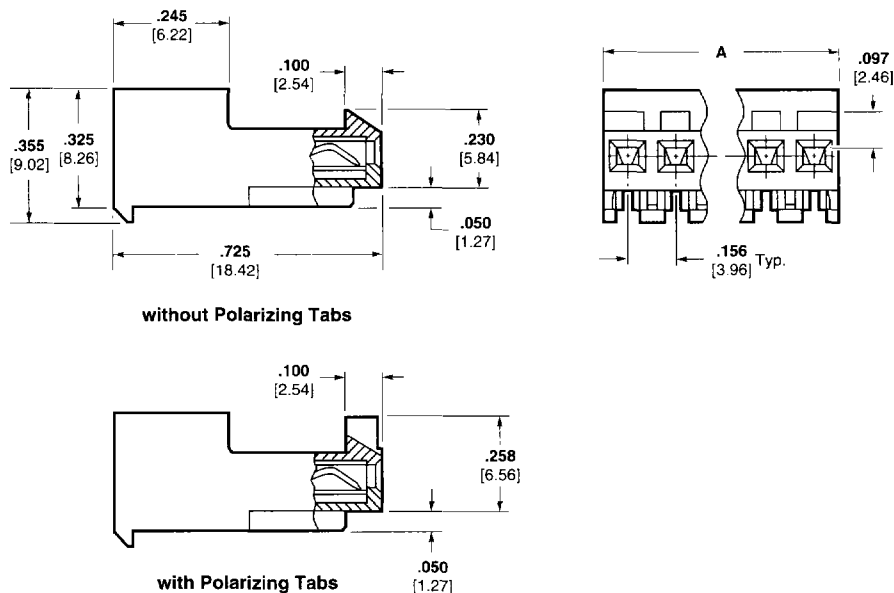
26 AWG — Blue
24 AWG — White
22 AWG — Red
20 AWG — Yellow
18 AWG — Orange

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.

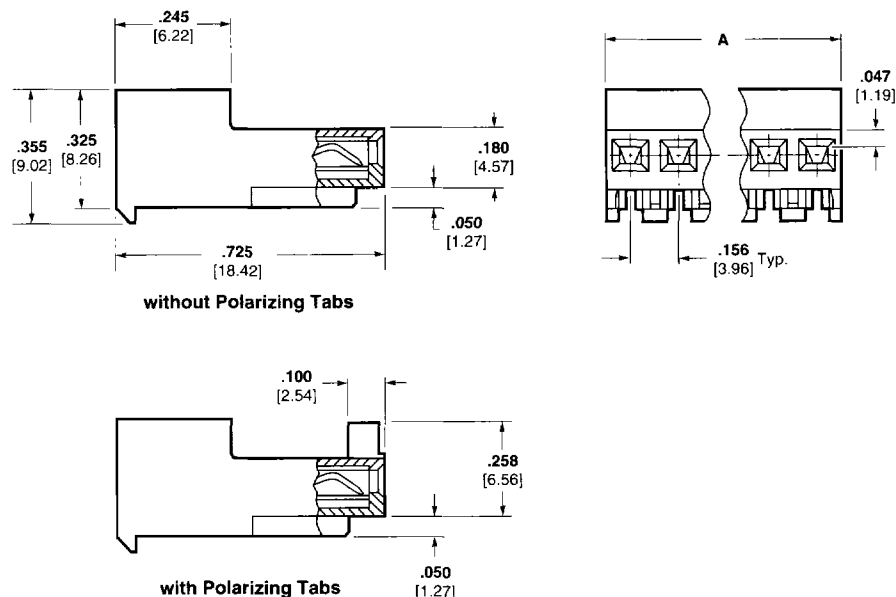
Closed End with Locking Ramp



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



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.

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:

1. Only connectors with locking ramp 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	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
Standard UL94V-2, Tin Plated								
18 AWG 0.8-0.9 mm ²	640426	2-24	643817	2-24	640431	2-24	644461 ²	2-14
20 AWG 0.5-0.6 mm ²	640427	2-24	643818	2-24	640432	2-24	644462 ²	2-14
22 AWG 0.3-0.4 mm ²	640428	2-24	643819	2-24	640433	2-24	644463 ²	2-14
24 AWG 0.2 mm ²	640429	2-24	643820	2-24	640434	2-24	644464 ²	2-14
26 AWG 0.12-0.15 mm ²	640430	2-24	643821	2-24	640435	2-24	—	—
Tape Mounted on Reel UL94V-2, Tin Plated								
18 AWG 0.8-0.9 mm ²	640472	2-24	644878	2-24	640477	2-24	—	—
20 AWG 0.5-0.6 mm ²	640473	2-24	—	—	640478	2-24	—	—
22 AWG 0.3-0.4 mm ²	640474	2-24	644783	2-24	640479	2-24	644791 ²	2-14
24 AWG 0.2 mm ²	640475	2-24	—	—	640480	2-24	—	—
26 AWG 0.12-0.15 mm ²	640476	2-24	—	—	640481	2-24	—	—
Standard UL94V-2, .000030 [0.00076] Gold Plated								
18 AWG 0.8-0.9 mm ²	641217	2-24	644460 ²	2-12	641222	2-24	—	—
20 AWG 0.5-0.6 mm ²	641218	2-24	644663 ²	2-12	641223	2-24	—	—
22 AWG 0.3-0.4 mm ²	641219	2-24	644662 ²	2-12	641224	2-24	644687 ²	2-14
24 AWG 0.2 mm ²	641220	2-24	—	—	641225	2-24	—	—
26 AWG 0.12-0.15 mm ²	641221	2-24	—	—	641226	2-24	—	—
Standard UL94V-2, .000015 [0.00038] Gold Plated								
18 AWG 0.8-0.9 mm ²	641148	2-24	644284 ²	2-12	641153	2-24	—	—
20 AWG 0.5-0.6 mm ²	641149	2-24	—	—	641154	2-24	—	—
22 AWG 0.3-0.4 mm ²	641150	2-24	—	—	641155	2-24	—	—
24 AWG 0.2 mm ²	641151	2-24	—	—	641156	2-24	—	—
26 AWG 0.12-0.15 mm ²	641152	2-24	—	—	641157	2-24	—	—
Standard UL94V-0, Tin Plated								
18 AWG 0.8-0.9 mm ²	644860	2-12	—	—	644502 ²	2-12	644082 ²	2-12
22 AWG 0.3-0.4 mm ²	—	—	—	—	644501 ²	2-12	644566 ²	2-12

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
.156 [3.96]

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

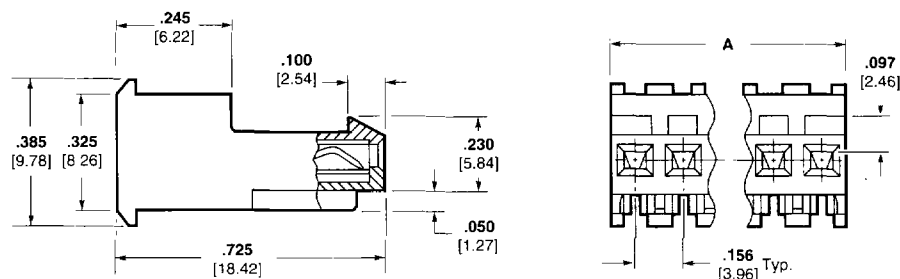
26 AWG — Blue
24 AWG — White
22 AWG — Red
20 AWG — Yellow
18 AWG — Orange

UL94V-0 — Black

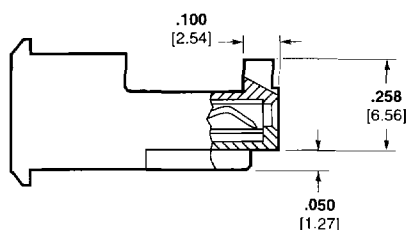
Notes:

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

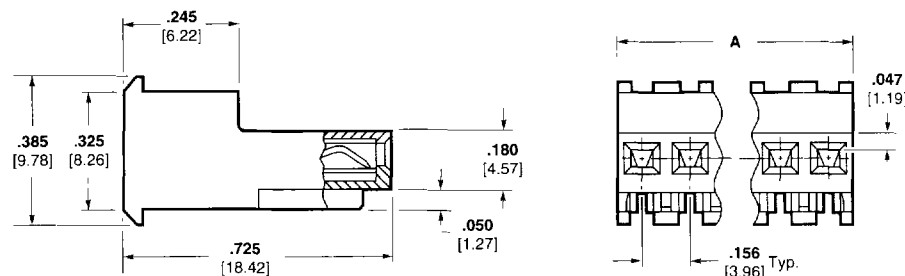


with Polarizing Tabs

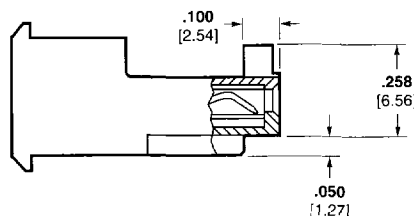
For mateability options, see matrix on pages 18 and 19.

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 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
Standard UL94V-2, Tin Plated								
18 AWG 0.8-0.9 mm ²	640599	2-24	644465	2-14	640604	2-24	644469	2-14
20 AWG 0.5-0.6 mm ²	640600	2-24	644466	2-14	640605	2-24	644470	2-14
22 AWG 0.3-0.4 mm ²	640601	2-24	644467	2-14	640606	2-24	644471	2-14
24 AWG 0.2 mm ²	640602	2-24	644468	2-14	640607	2-24	644472	2-14
26 AWG 0.12-0.15 mm ²	640595	2-24	—	—	640608	2-24	—	—
Tape Mounted on Reel UL94V-2, Tin Plated								
18 AWG 0.8-0.9 mm ²	641302	2-24	—	—	641306	2-24	—	—
20 AWG 0.5-0.6 mm ²	641303	2-24	—	—	641307	2-24	—	—
22 AWG 0.3-0.4 mm ²	641304	2-24	—	—	641308	2-24	—	—
24 AWG 0.2 mm ²	641305	2-24	—	—	641309	2-24	—	—
26 AWG 0.12-0.15 mm ²	641301	2-24	—	—	641310	2-24	—	—
Standard UL94V-2, .00003 [.00076] Gold Plated								
18 AWG 0.8-0.9 mm ²	641227	2-24	644718	2-14	641232	2-24	—	—
20 AWG 0.5-0.6 mm ²	641228	2-24	—	—	641233	2-24	—	—
22 AWG 0.3-0.4 mm ²	641229	2-24	644720	2-14	641234	2-24	—	—
24 AWG 0.2 mm ²	641230	2-24	—	—	641235	2-24	—	—
26 AWG 0.12-0.15 mm ²	641231	2-24	—	—	641236	2-24	—	—
Standard UL94V-2, .000015 [.00038] Gold Plated								
18 AWG 0.8-0.9 mm ²	641168	2-24	—	—	641173	2-24	—	—
20 AWG 0.5-0.6 mm ²	641169	2-24	—	—	641174	2-24	—	—
22 AWG 0.3-0.4 mm ²	641170	2-24	—	—	641175	2-24	—	—
24 AWG 0.2 mm ²	641171	2-24	—	—	641176	2-24	—	—
26 AWG 0.12-0.15 mm ²	641172	2-24	—	—	641177	2-24	—	—
Standard UL94V-0, Tin Plated								
18 AWG 0.8-0.9 mm ²	—	—	—	—	644567	2-12	644570	2-12
22 AWG 0.3-0.4 mm ²	—	—	—	—	644569	2-12	644572	2-12

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
.156 [3.96]

MTA-156 Connector Accessories

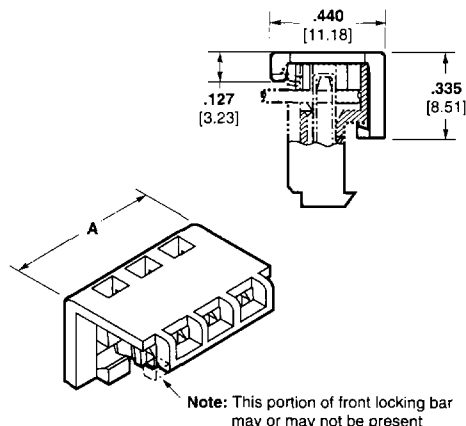
Closed End Covers

Material

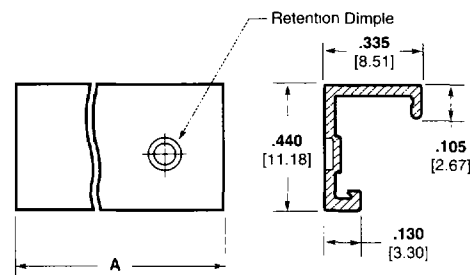
Strain Relief Covers—UL94V-2 rated, nylon, white

Dust Covers—UL94V-0 rated, polyester, white

Strain Relief Covers



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
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

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 Connector Accessories (Continued)

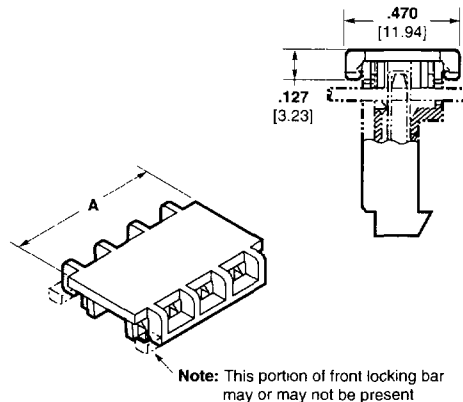
Feed-Thru Covers

Material

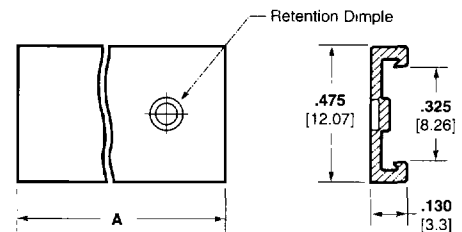
Strain Relief Covers — UL94V-2 rated, nylon, white

Dust Covers — UL94V-0 rated, polyester, white

Strain Relief Covers



Dust Covers



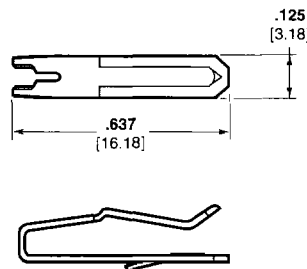
Replacement IDC Contacts

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.

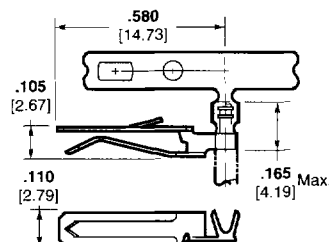


Wire Size		Part Numbers		
AWG	mm ²	Tin Plated	.000030 [0.00076] Gold Plated	.000015 [0.00038] Gold Plated
18	0.8-0.9	640631-2	641143-2	641143-1
20	0.5-0.6	640632-2	641144-2	641144-1
22	0.3-0.4	640633-2	641145-2	641145-1
24	0.2	640634-2	641146-2	641146-1
26	0.12-0.15	640635-2	641147-2	641147-1

Crimp Snap-in Contacts

Material and Finish

Contacts — Phosphor bronze, tin plated



Wire Size		Part Nos.	
AWG	mm ²	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

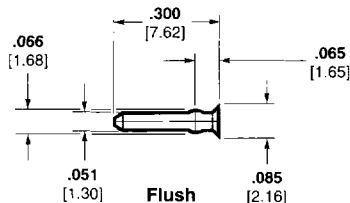
Material

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

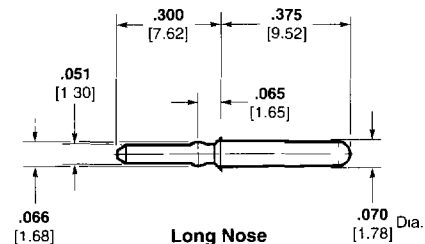
Note: Removal of contact is not
necessary when using keying plug.

Loose Piece

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

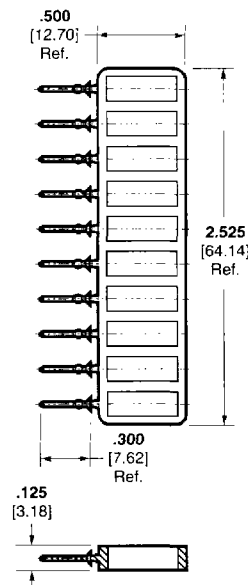


Part No. 640630-1 (Long Nose)
Used with staked post



On Carrier Strip

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



Panel Mount End Caps

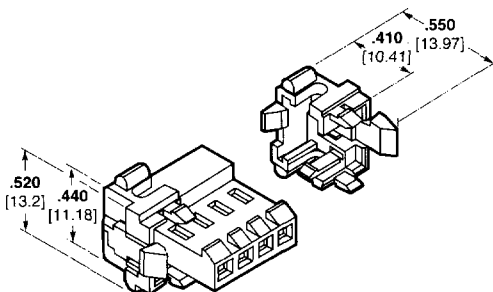
Part No. 641440-1
Part No. 641533-1
(2-position only)

Material

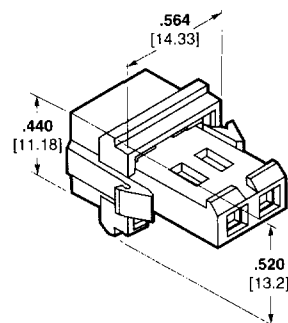
UL94V-2 rated, nylon, black

Notes:

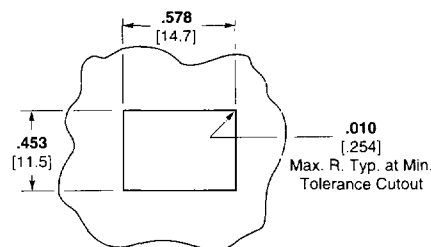
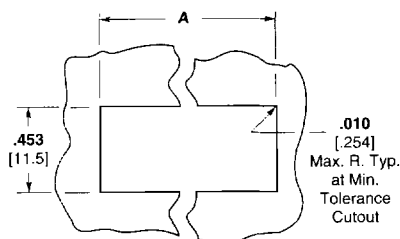
- Both left hand and right hand end caps are attached by a connecting tab. This tab must be broken off prior to installing on connector.
- For best results attach panel mount end caps to the MTA-156 (IDC) connectors shown on pages 20 thru 23. While not preferred, panel mount end caps can be attached to MTA-156 (IDC) post-terminated connector on page 27.



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



Two-Position Only
641533-1



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

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