

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 12 and 13.

For mating half visuals, see pages 20 thru 30.

Notes:

1. Refer to pages 70-74 for approved wire listing.
2. For strain reliefs and dust covers, see page 16.
3. For keying plugs, see page 17.
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

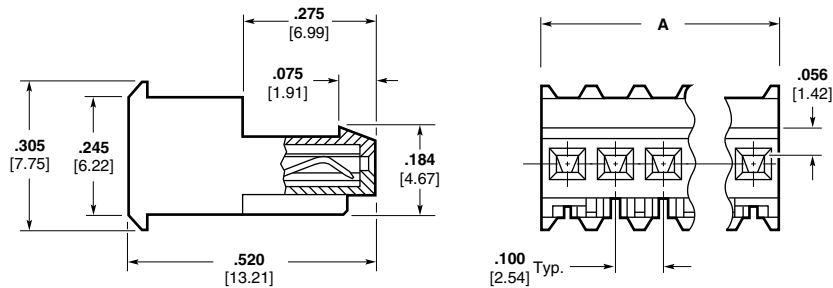


Without Polarizing Tabs

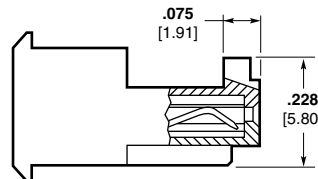


With Polarizing Tabs

Feed-Thru Connectors



Without Polarizing Tabs



With Polarizing Tabs

MTA-100
.100 [2.54]

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.

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

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.
Standard UL94V-2, Tin Plated								
22 AWG 0.3–0.4 mm ²	640440	32–58	643813	32–58	640620	32–58	644540 ¹	32–45
24 AWG 0.2 mm ²	640441	32–58	643814	32–58	640621	32–58	644563 ¹	32–54
26 AWG 0.12–0.15 mm ²	640442	32–58	643815	32–58	640622	32–58	644564 ¹	32–45
28 AWG 0.08–0.09 mm ²	640443	32–58	643816	32–58	640623	32–58	644565 ¹	32–45
Tape Mounted on Reel UL94V-2, Tin Plated								
22 AWG 0.3–0.4 mm ²	640468	32–58	644511	42–68	641311	32–58	—	—
24 AWG 0.2 mm ²	640469	32–58	644512	32–58	641312	32–58	—	—
26 AWG 0.12–0.15 mm ²	640470	32–58	644513	32–58	641313	32–58	—	—
28 AWG 0.08–0.09 mm ²	640471	32–58	644514	32–58	641314	32–58	—	—
Standard UL94V-2, .000030 [0.00076] Gold Plated								
22 AWG 0.3–0.4 mm ²	641237	32–58	644042	32–58	641241	32–58	644702 ¹	32–45
24 AWG 0.2 mm ²	641238	32–58	644020	32–58	641242	32–58	—	—
26 AWG 0.12–0.15 mm ²	641239	32–58	644043 ¹	32–44	641243	32–58	644726 ¹	32–45
28 AWG 0.8–0.9 mm ²	641240	32–58	644044 ¹	32–44	641244	32–58	—	—
Standard UL94V-2, .000015 [0.00038] Gold Plated								
22 AWG 0.3–0.4 mm ²	641190	32–58	644038 ¹	32–44	641198	32–58	647477	32–46
24 AWG 0.2 mm ²	641191	32–58	1744020 ¹	32–44	641199	32–58	—	—
26 AWG 0.12–0.15 mm ²	641192	32–58	644040 ¹	32–44	641200	32–58	647480	32–43
28 AWG 0.08–0.09 mm ²	641193	32–58	—	—	641201	32–58	—	—
LED*, UL94V-2, Tin Plated (See Note 1)								
22 AWG 0.3–0.4 mm ²	641534	32–33	—	—	641653	32–33	—	—
24 AWG 0.2 mm ²	641535	32–33	644795	32–33	641654	32–33	—	—
26 AWG 0.12–0.15 mm ²	641536	32–33	—	—	641655	32–33	—	—
28 AWG 0.08–0.09 mm ²	641537	32–33	—	—	641656	32–33	—	—
Standard UL94V-0, Tin Plated (Gold is available, minimums may apply.) (Black in color)								
22 AWG 0.3–0.4 mm ²	643498 ¹	32–45	644083 ¹	32–45	644575 ¹	32–45	644578 ¹	32–45
24 AWG 0.2 mm ²	644574 ¹	32–45	644312 ¹	32–45	644576 ¹	32–45	644579 ¹	32–45
26 AWG 0.12–0.15 mm ²	643828 ¹	32–45	644313 ¹	32–45	644577 ¹	32–45	644497 ¹	32–45

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

¹ Other circuit sizes are available upon request. Minimums may apply.

² Tape mounted.

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