

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

Material and Finish

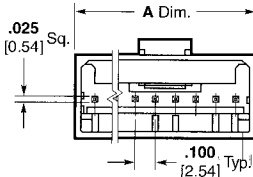
Housing — UL 94V-2 rated, nylon, see chart for color

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

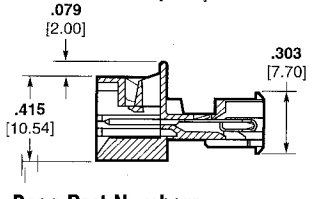
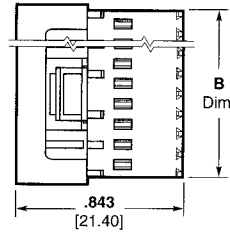
Notes:

1. Mating half visuals - pages 14 & 15.
2. Use feed thru strain relief covers & feed thru dust covers (if needed) - page 16.
3. Approved wire listing - pages 70 thru 74.

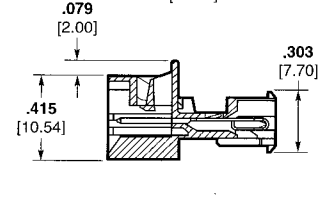
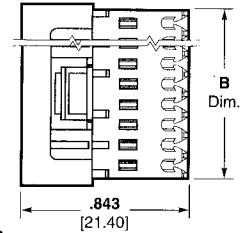
MTA-100
.100 [2.54]



Closed End



Feed-Thru



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 22 AWG wire would be:

Base number **647000** plus prefix-and-suffix
1- -2

The correct ordering number is **1-647000-2**

The set of numbers in **bold face** are the RoHS equivalent version of the standard product. Example:

No. of Pos.	Standard Prefix/Suffix	Lead Free RoHS Prefix/Suffix
2	647000-2	3-647000-2
thru		
19	1-647000-9	4-647000-9

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.

Color Coding by Wire Size for UL 94V-2 Connectors

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

Performance Data

- Voltage Rating** — 250 VAC
- Current Rating** — 4 amp max.
- Low-Level Resistance** — 16 mΩ max. initial
- Dielectric Withstanding Voltage** — 750 VAC/1 min.

Base Part Numbers

Connector Type & Wire Size	Closed End Connector		Feed-Thru Connector	
	Part Nos.	No. of Circuits/RoHS Equiv.	Part Nos.	No. of Circuits
Standard UL 94V-2, Tin Plated				
22 AWG 0.3-0.4 mm ²	647000	2-19 ¹ 32-49	647004	— ²
24 AWG 0.2 mm ²	647001	2-19 ¹ 32-49	647005	— ²
26 AWG 0.12-0.15 mm ²	647002	2-19 ¹ 32-49	647006	— ²
28 AWG 0.08-0.09 mm ²	647003	2-19 ¹ 32-49	647007	— ²
Standard UL 94V-2, .000030 [0.00076] Gold Plated				
22 AWG 0.3-0.4 mm ²	647008	2-19 ¹ 32-49	647012	— ²
24 AWG 0.2 mm ²	647009	2-19 ¹ 32-49	647013	— ²
26 AWG 0.12-0.15 mm ²	647010	2-19 ¹ 32-49	647014	— ²
28 AWG 0.08-0.09 mm ²	647011	2-19 ¹ 32-49	647015	— ²
Standard UL 94V-2, .000015 [0.00038] Gold Plated				
22 AWG 0.3-0.4 mm ²	647016	2-19 ¹ 32-49	647020	— ²
24 AWG 0.2 mm ²	647017	2-19 ¹ 32-49	647021	— ²
26 AWG 0.12-0.15 mm ²	647018	2-19 ¹ 32-49	647022	— ²
28 AWG 0.08-0.09 mm ²	647019	2-19 ¹ 32-49	647023	— ²

¹ 2 and 3 position MTA-100 Posted Connectors (Closed End) **can not mate** with MTA-100 connectors with polarizing tabs.
² 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]

Insulation Resistance — 5000 MΩ min. initial
Operating Temperature — -55°C to +105°C

Technical Documents

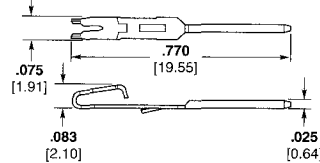
Product Specification
108-1050-1 MTA-100 Posted Connector

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 ²	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 0.8-0.9	3-647033-1	3-647033-2

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