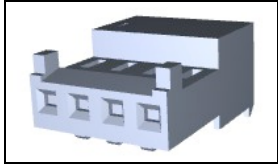


## 643813-4 Product Details



**643813-4**

TE Internal Number: 643813-4



Active

### MTA, CST-100 II, MT-6 and SL Connectors and Headers

Not EU RoHS or ELV Compliant ([Find RoHS Compliant Alternates](#))

#### Product Highlights:

- MTA-100 Product Line
- MTA Series
- Wire-to-Post
- Applies To Wire/Cable
- Connector

### Documentation & Additional Information

#### Product Drawings:

- [MTA 100 CONNECTOR ASSEMBLY, 22 AWG, STANDARD](#) (PDF, English)

#### Catalog Pages/Data Sheets:

- [MTA, CST-100 II, SL-156 and AMP Economy Power \(EP\) C...](#) (PDF, English)

#### Product Specifications:

- None Available

#### Application Specifications:

- None Available

#### Instruction Sheets:

- None Available

#### CAD Files: ([CAD Format & Compression Information](#))

- [2D Drawing](#) (DXF, Version K)
- [3D Model](#) (IGES, Version K)
- [3D Model](#) (STEP, Version K)

#### Additional Information:

- [Product Line Information](#)

#### Related Products:

- [Tooling](#)
- [Mating Products \(42\)](#)

### Product Features (Please use the Product Drawing for all design activity)

#### Product Type Features:

- [Product Line](#) = MTA-100
- Series = MTA
- Product Type = Connector
- Connector Type = Connector Assembly
- Termination Method to Wire/Cable = IDC
- PCB Mount Retention = Without
- PCB Mount Alignment = Without
- [Connector Design](#) = Closed End
- Strain Relief = With
- Wire/Cable Type = Discrete Wire
- Sealed = No
- UL File Number = E28476
- CSA File Number = LR7189

#### Mechanical Attachment:

- Contact Retention = With
- Mating Retention Type = Locking Ramp
- [Panel Mount Retention](#) = Without
- Contact Retention Type = Locking Lance

#### Electrical Characteristics:

- Contact - Rated Current (A) = 5
- Operating Voltage Reference = AC
- Operating Voltage (VAC) = 250

#### Termination Features:

- Wire/Cable Size (mm<sup>2</sup>) = 0.3 - 0.4
- Wire/Cable Size (AWG) = 22

#### Body Features:

- Wire Type = Stranded
- Mating Retention = With
- Cable Exit Angle = 90°
- Assembly Integration Feature = Without

#### Housing Features:

- Connector Style = Receptacle
- Centerline (mm [in]) = 2.54 [0.100]
- Housing Style = Standard
- Housing Material = Nylon
- Housing Color = White
- [Mating Alignment](#) = With
- Mating Alignment Type = Polarization
- UL Flammability Rating = UL 94V-2

#### Configuration Features:

- [Number of Positions](#) = 4
- [Post Number\(s\) Omitted](#) = None
- [Backwall/Post Interruption\(s\)](#) = Without
- Number of Rows = 1

#### Industry Standards:

- [RoHS/ELV Compliance](#) = Not ELV/RoHS compliant
- [Lead Free Solder Processes](#) = Not relevant for lead free process
- Agency/Standard = CSA, UL
- UL Rating = Recognized
- CSA Rating = Certified

#### Environmental:

- Operating Temperature (°C [°F]) = -55 - +105 [-67 - +221]

#### Conditions for Usage:

- [Applies To](#) = Wire/Cable
- Accepts Wire Insulation Diameter, Range (mm [in]) = 1.52 [0.060]
- For Use With = MTA .100 Header

#### Operation/Application:

- Application Use = Wire-to-Post

**Contact Features:**

- Contact Type = Socket
- Contact Base Material = Copper Alloy
- Contact Plating, Mating Area, Material = Bright Tin-Lead
- Contact Layout = In-Line
- Multiple Contact Types = Without
- Contact Plating, Mating Area, Thickness ( $\mu\text{m}$  [ $\mu\text{in}$ ]) = 2.03 – 5.08 [80 – 200]

**Packaging Features:**

- Packaging Method = Bag
- Packaging Quantity = 500

**Other:**

- Brand = AMP
- Comment = Stripe may run down between ribs

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LOC		DIST		REVISIONS			
P	LTR	DESCRIPTION		DATE	DWN	APVD	
CM	00	J	REVISED PER ECO-12-007492	03AUG12	KH	SM	

1 MATERIAL: CONNECTOR - NYLON UL94V-2 .  
 CONTACTS - 0.30[.012] THICK COPPER ALLOY BRIGHT  
 TIN-LEAD .00203[.000080] MIN THICKNESS FOR 643813-2  
 THRU 2-643813-8. MATTE WHISKER MITIGATED TIN .00203[.000080] MIN  
 THICKNESS OVER NICKEL UNDERPLATE FOR 3-643813-2 THRU 5-643813-8.

2 CONTACTS ACCEPT 22 AWG WIRE WITH 1.52[.060] MAX  
 INSULATION DIAMETER.

3 CONTACTS MUST ACCEPT 0.64±0.03[.025±.001]  
 POST AND REMAIN LOCKED IN POSITION.

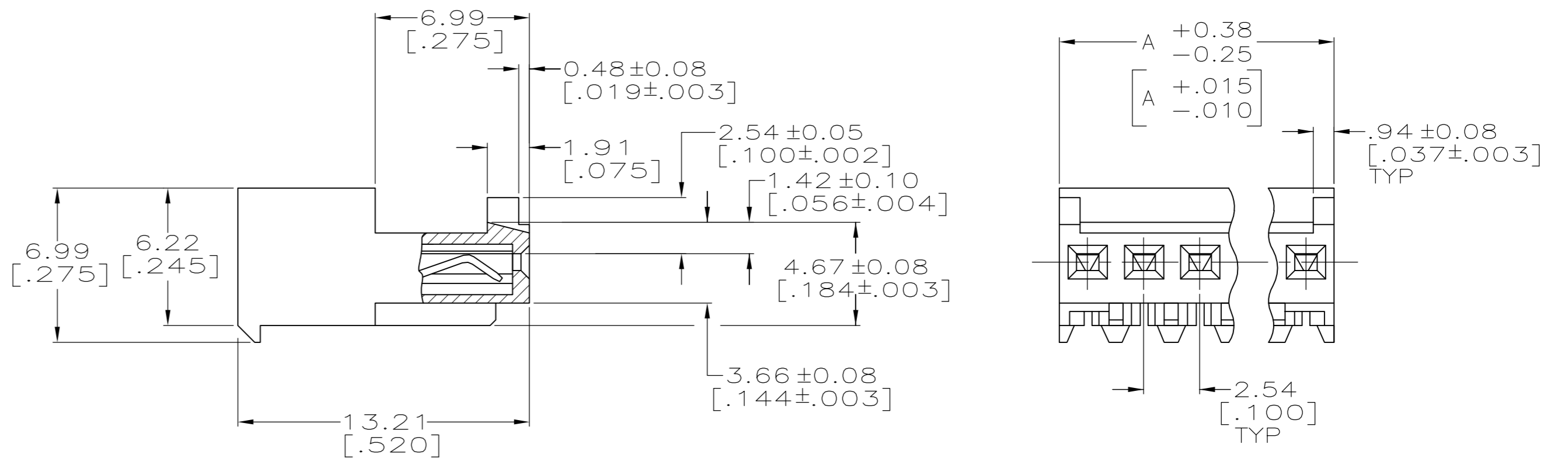
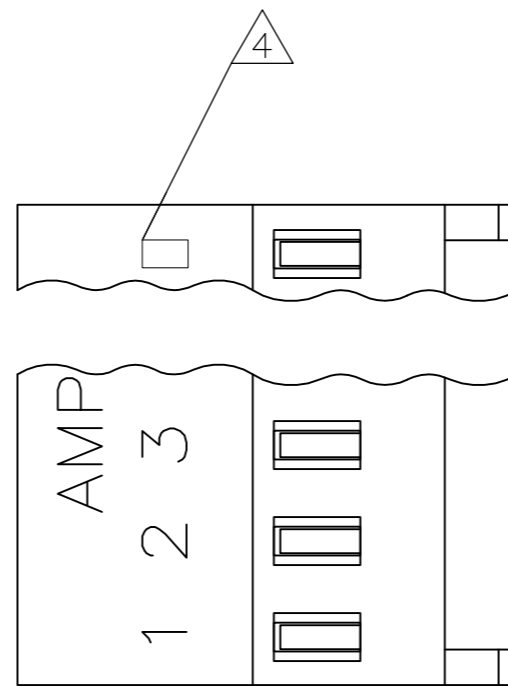
4 IDENTIFICATION NUMBER FOR LAST CIRCUIT MAY  
 NOT APPEAR ON ALL ASSEMBLIES.

5 DIMENSIONS IN BRACKETS ARE IN INCHES.

6 HOUSING FEATURES ARE: CLOSED END WITH  
 LOCKING RAMP AND WITH POLARIZING TAB.

7 OBSOLETE PARTS: OBSOLETE CIS STREAMLINING PER D.RENAUD/D.SINISI

8 RED COLOR STRIPE ON HOUSING (NOT SHOWN) MAY RUN DOWN BETWEEN RIBS.



LEADFREE	DIM A	NO. OF CIRCUITS	PART NO.
YES	71.12[2.800]	28	5-643813-8
YES	68.58[2.700]	27	5-643813-7
YES	66.04[2.600]	26	5-643813-6
YES	63.50[2.500]	25	5-643813-5
YES	60.96[2.400]	24	5-643813-4
YES	58.42[2.300]	23	5-643813-3
YES	55.88[2.200]	22	5-643813-2
YES	53.34[2.100]	21	5-643813-1
YES	50.80[2.000]	20	5-643813-0
YES	48.26[1.900]	19	4-643813-9
YES	45.72[1.800]	18	4-643813-8
YES	43.18[1.700]	17	4-643813-7
YES	40.64[1.600]	16	4-643813-6
YES	38.10[1.500]	15	4-643813-5
YES	35.56[1.400]	14	4-643813-4
YES	33.02[1.300]	13	4-643813-3
YES	30.48[1.200]	12	4-643813-2
YES	27.94[1.100]	11	4-643813-1
YES	25.40[1.000]	10	4-643813-0
YES	22.86[.900]	9	3-643813-9
YES	20.32[.800]	8	3-643813-8
YES	17.78[.700]	7	3-643813-7
YES	15.24[.600]	6	3-643813-6
YES	12.70[.500]	5	3-643813-5
YES	10.16[.400]	4	3-643813-4
YES	7.62[.300]	3	3-643813-3
YES	5.08[.200]	2	3-643813-2
NO	71.12[2.800]	28	2-643813-8 SUPERSEDED BY 5-643813-8
NO	68.58[2.700]	27	2-643813-7 SUPERSEDED BY 5-643813-7
NO	66.04[2.600]	26	2-643813-6 OBSOLETE
NO	63.50[2.500]	25	2-643813-5 SUPERSEDED BY 5-643813-5
NO	60.96[2.400]	24	2-643813-4
NO	58.42[2.300]	23	2-643813-3 SUPERSEDED BY 5-643813-3
NO	55.88[2.200]	22	2-643813-2 SUPERSEDED BY 5-643813-2
NO	53.34[2.100]	21	2-643813-1 SUPERSEDED BY 5-643813-1
NO	50.80[2.000]	20	2-643813-0
NO	48.26[1.900]	19	1-643813-9 SUPERSEDED BY 4-643813-9
NO	45.72[1.800]	18	1-643813-8
NO	43.18[1.700]	17	1-643813-7
NO	40.64[1.600]	16	1-643813-6
NO	38.10[1.500]	15	1-643813-5
NO	35.56[1.400]	14	1-643813-4
NO	33.02[1.300]	13	1-643813-3
NO	30.48[1.200]	12	1-643813-2
NO	27.94[1.100]	11	1-643813-1
NO	25.40[1.000]	10	1-643813-0
NO	22.86[.900]	9	643813-9
NO	20.32[.800]	8	643813-8
NO	17.78[.700]	7	643813-7
NO	15.24[.600]	6	643813-6
NO	12.70[.500]	5	643813-5
NO	10.16[.400]	4	643813-4
NO	7.62[.300]	3	643813-3
NO	5.08[.200]	2	643813-2

METRIC

THIS DRAWING IS A CONTROLLED DOCUMENT.		DWN S. CARPENTER 11JUN2003	TE Connectivity	
DIMENSIONS: mm [INCHES]		CHK D. BOSSI 11JUN2003		
TOLERANCES UNLESS OTHERWISE SPECIFIED:		APVD D. BOSSI 11JUN2003	NAME MTA 100 CONNECTOR ASSEMBLY, 22 AWG, STANDARD	
0 PLC ±		PRODUCT SPEC 108-1050	SIZE A2	
1 PLC ±		APPLICATION SPEC 114-1019	CAGE CODE 00779	DRAWING NO C=643813
2 PLC ±		WEIGHT	RESTRICTED TO -	
3 PLC ± 0.13 [.005]		CUSTOMER DRAWING	SCALE 5:1	SHEET 1 of 1
4 PLC ±			REV J	
ANGLES ±				
FINISH				