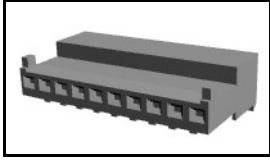


4-643814-0 Product Details

[Share](#) [Print](#) [Email](#)




4-643814-0

TE Internal Number: 4-643814-0

 Active

[View 3D PDF](#)

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

 Always EU RoHS/ELV Compliant
(Statement of Compliance)

Product Highlights:

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

[View all Features](#)

Quick Links

- ▶ [Pricing & Availability](#)
- ▶ [Search for Tooling](#)
- ▶ [View Mating Products \(36\)](#)
- ▶ [Product Feature Selector](#)
- ▶ [Contact Us About This Product](#)

[Add to My Part List](#)

[Request Sample](#)

[Find Similar Products](#)

[Buy Product](#)

Documentation & Additional Information

Product Drawings:

- [MTA-100 CONNECTOR ASSEMBLY, 24 AWG, STANDARD](#) (PDF, English)

Catalog Pages/Data Sheets:

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

Product Specifications:

- [Connector, MTA-100](#) (PDF, English)

Application Specifications:

- [MTA 100 Connector](#) (PDF, English)

Instruction Sheets:

- None Available

CAD Files: (CAD Format & Compression Information)

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

[List all Documents](#)

Additional Information:

- [Product Line Information](#)

Related Products:

- [Tooling](#)
- [Mating Products \(36\)](#)

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

Product Type Features:

- [Product Line](#) = MTA-100
- Product Type = Connector
- Connector Type = Connector Assembly
- PCB Mount Retention = Without
- PCB Mount Alignment = Without
- [Connector Design](#) = Closed End
- Wire/Cable Type = Discrete Wire
- Sealed = No
- CSA File Number = LR7189

Mechanical Attachment:

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

Housing Features:

- Connector Style = Receptacle
- Centerline (mm [in]) = 2.54 [0.100]
- Housing Style = Standard
- Housing Material = Nylon - GF
- Housing Color = White
- [Mating Alignment](#) = With
- Mating Alignment Type = Polarization

Configuration Features:

- [Number of Positions](#) = 10
- [Backwall/Post Interruption\(s\)](#) = Without
- Strain Relief = With
- Number of Rows = 1

Industry Standards:

- [RoHS/ELV Compliance](#) = RoHS compliant, ELV

Electrical Characteristics:

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

Termination Features:

- Wire/Cable Size (mm²) = 0.2
- Wire/Cable Size (AWG) = 24
- Termination Method to Wire/Cable = IDC

Body Features:

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

Contact Features:

- Contact Type = Socket
- Contact Base Material = Copper Alloy
- Contact Plating, Mating Area, Material = Matte Tin
- Contact Layout = In-Line
- Multiple Contact Types = Without
- Contact Plating, Mating Area, Thickness (µm [µin]) = 2.03 – 5.08 [80 – 200]
- Underplate Material = Nickel
- Underplate Material Thickness (µm [µin]) = 0.762 [30.000]

compliant

- [Lead Free Solder Processes](#) = Not relevant for lead free process
- RoHS/ELV Compliance History = Always was RoHS compliant
- Agency/Standard = CSA, UL
- UL Rating = Recognized
- CSA Rating = Certified
- UL File Number = E28476
- UL Flammability Rating = UL 94V-2

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

Packaging Features:

- Packaging Method = Bag
- Packaging Quantity = 500

Other:

- Series = MTA
- Brand = AMP

Corporate Information

[About TE](#)
[Investors](#)
[News Room](#)
[Supplier Portal](#)
[Careers](#)
[Terms & Conditions](#)
[Privacy Policy](#)
[AODA Accessibility Policy](#)
[AODA Multi-Year Accessibility Plan](#)

Quick Links

[Distributor Inventory](#)
[Product Cross Reference](#)
[Documents & Drawings](#)
[Product Compliance Support Center](#)
[Site Map](#)

Customer Support

[Email or Chat With Us](#)
[Find a Phone Number](#)
[Knowledge Base](#)
[Manage Your Account](#)

Keep Me Informed

4

3

2

1

THIS DRAWING IS UNPUBLISHED. RELEASED FOR PUBLICATION
 © COPYRIGHT - By - ALL RIGHTS RESERVED.

LOC	DIST	REVISIONS			
P	LTR	DESCRIPTION	DATE	DWN	APVD
CM	00	J2	REVISED PER ECO-11-004587	11MAR11	RK HMR

YES	71.12[2.800]	28	5-643814-8
YES	68.58[2.700]	27	5-643814-7
YES	66.04[2.600]	26	5-643814-6
YES	63.50[2.500]	25	5-643814-5
YES	60.96[2.400]	24	5-643814-4
YES	58.42[2.300]	23	5-643814-3
YES	55.88[2.200]	22	5-643814-2
YES	53.34[2.100]	21	5-643814-1
YES	50.80[2.000]	20	5-643814-0
YES	48.26[1.900]	19	4-643814-9
YES	45.72[1.800]	18	4-643814-8
YES	43.18[1.700]	17	4-643814-7
YES	40.64[1.600]	16	4-643814-6
YES	38.10[1.500]	15	4-643814-5
YES	35.56[1.400]	14	4-643814-4
YES	33.02[1.300]	13	4-643814-3
YES	30.48[1.200]	12	4-643814-2
YES	27.94[1.100]	11	4-643814-1
YES	25.40[1.000]	10	4-643814-0
YES	22.86[.900]	9	3-643814-9
YES	20.32[.800]	8	3-643814-8
YES	17.78[.700]	7	3-643814-7
YES	15.24[.600]	6	3-643814-6
YES	12.70[.500]	5	3-643814-5
YES	10.16[.400]	4	3-643814-4
YES	7.62[.300]	3	3-643814-3
YES	5.08[.200]	2	3-643814-2

NO	71.12[2.800]	28	2-643814-8	SUPERSEDED BY 5-643814-8
NO	68.58[2.700]	27	2-643814-7	SUPERSEDED BY 5-643814-7
NO	66.04[2.600]	26	2-643814-6	SUPERSEDED BY 5-643814-6
NO	63.50[2.500]	25	2-643814-5	
NO	60.96[2.400]	24	2-643814-4	SUPERSEDED BY 5-643814-4
NO	58.42[2.300]	23	2-643814-3	SUPERSEDED BY 5-643814-3
NO	55.88[2.200]	22	2-643814-2	SUPERSEDED BY 5-643814-2
NO	53.34[2.100]	21	2-643814-1	SUPERSEDED BY 5-643814-1
NO	50.80[2.000]	20	2-643814-0	
NO	48.26[1.900]	19	1-643814-9	SUPERSEDED BY 4-643814-9
NO	45.72[1.800]	18	1-643814-8	
NO	43.18[1.700]	17	1-643814-7	SUPERSEDED BY 4-643814-7
NO	40.64[1.600]	16	1-643814-6	
NO	38.10[1.500]	15	1-643814-5	
NO	35.56[1.400]	14	1-643814-4	
NO	33.02[1.300]	13	1-643814-3	
NO	30.48[1.200]	12	1-643814-2	
NO	27.94[1.100]	11	1-643814-1	
NO	25.40[1.000]	10	1-643814-0	
NO	22.86[.900]	9	643814-9	
NO	20.32[.800]	8	643814-8	
NO	17.78[.700]	7	643814-7	
NO	15.24[.600]	6	643814-6	
NO	12.70[.500]	5	643814-5	
NO	10.16[.400]	4	643814-4	
NO	7.62[.300]	3	643814-3	
NO	5.08[.200]	2	643814-2	

LEADFREE	DIM A	NO. OF CIRCUITS	PART NO.

1. MATERIAL: CONNECTOR - NYLON UL94V-2 (WHITE).
 CONTACTS - 0.30[.012] THICK COPPER ALLOY
 BRIGHT TIN-LEAD .00203[.000080] MIN THICKNESS
 FOR 643814-2 THRU 2-643814-8.
 MATTE WHISKER MITIGATED TIN .00203[.000080] MIN THICKNESS
 OVER NICKEL UNDERPLATE FOR 3-643814-2 THRU 5-643814-8.

2. CONTACTS ACCEPT 24 AWG WIRE WITH 1.52[.060] MAX INSULATION DIAMETER.

3. CONTACTS MUST ACCEPT 0.64±0.03[.025] 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.

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

METRIC

THIS DRAWING IS A CONTROLLED DOCUMENT.		DWN S. CARPENTER 11JUN2003		
DIMENSIONS: mm [INCHES]		CHK D. BOSSI 11JUN2003		
TOLERANCES UNLESS OTHERWISE SPECIFIED:		APVD D. BOSSI 11JUN2003	NAME	
0 PLC ±		PRODUCT SPEC		MTA-100 CONNECTOR ASSEMBLY, 24 AWG, STANDARD
1 PLC ±		APPLICATION SPEC		
2 PLC ±		108-1050		SIZE
3 PLC ± 0.13 [.005]		114-1019		CAGE CODE
4 PLC ±		WEIGHT		DRAWING NO
ANGLES ±		CUSTOMER DRAWING		RESTRICTED TO
FINISH 1		SCALE 5:1		SHEET 1 of 1
MATERIAL 1		REV J2		

1471-9 (3/11) 2D

643814

A