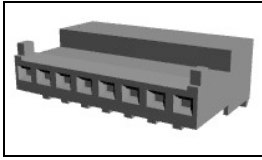


3-643814-8 Product Details

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3-643814-8

TE Internal Number: 3-643814-8

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 \(38\)](#)
- [▶ 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 \(38\)](#)

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
- 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 (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°
- Underplate Material Thickness (µm [µin]) = 0.762 [30.000]
- 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](#) = 8
- [Backwall/Post Interruption\(s\)](#) = Without
- Strain Relief = With
- Number of Rows = 1

Industry Standards:

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

Packaging Features:

- Packaging Method = Package
- Packaging Quantity = 500

Other:

- Series = MTA
- Brand = AMP

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4

3

2

1

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| 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 | |
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| NO | 22.86[.900] | 9 | 643814-9 | |
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| NO | 17.78[.700] | 7 | 643814-7 | |
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| 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