TE connectivity

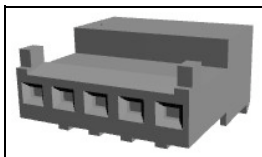**Have a Question?**
Chat with a Product
Information Specialist

What can we help you find?

| Products | Industries | Resources | About TE | My Account | Innovation | Support Center |

3-643814-5 Product Details

📛 **Share**   🖨 **Print**   ✉ **Email**

3-643814-5

TE Internal Number: 3-643814-5

✔ 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 (6)
- ▷ 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)

Additional Information:
- Product Line Information

Related Products:
- Tooling
- Mating Products (6)

List all Documents

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 (mm²) = 0.2
- Wire/Cable Size (AWG) = 24

Body Features:
- Wire Type = Stranded
- Mating Retention = With
- Cable Exit Angle = 90°

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 = 5
- Post Number(s) Omitted = None
- Backwall/Post Interruption(s) = Without
- 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 = 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

- Cable Exit Angle = 90°
- Underplate Material Thickness (µm [µin]) = 0.762 [30.000]
- 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

Operation/Application:
- Application Use = Wire-to-Post

Packaging Features:
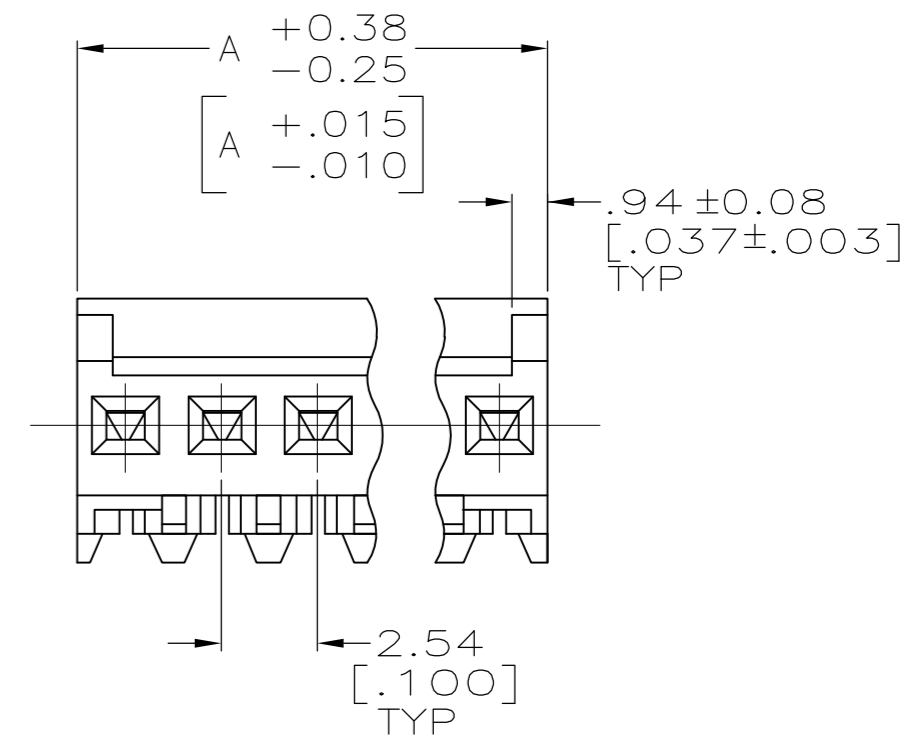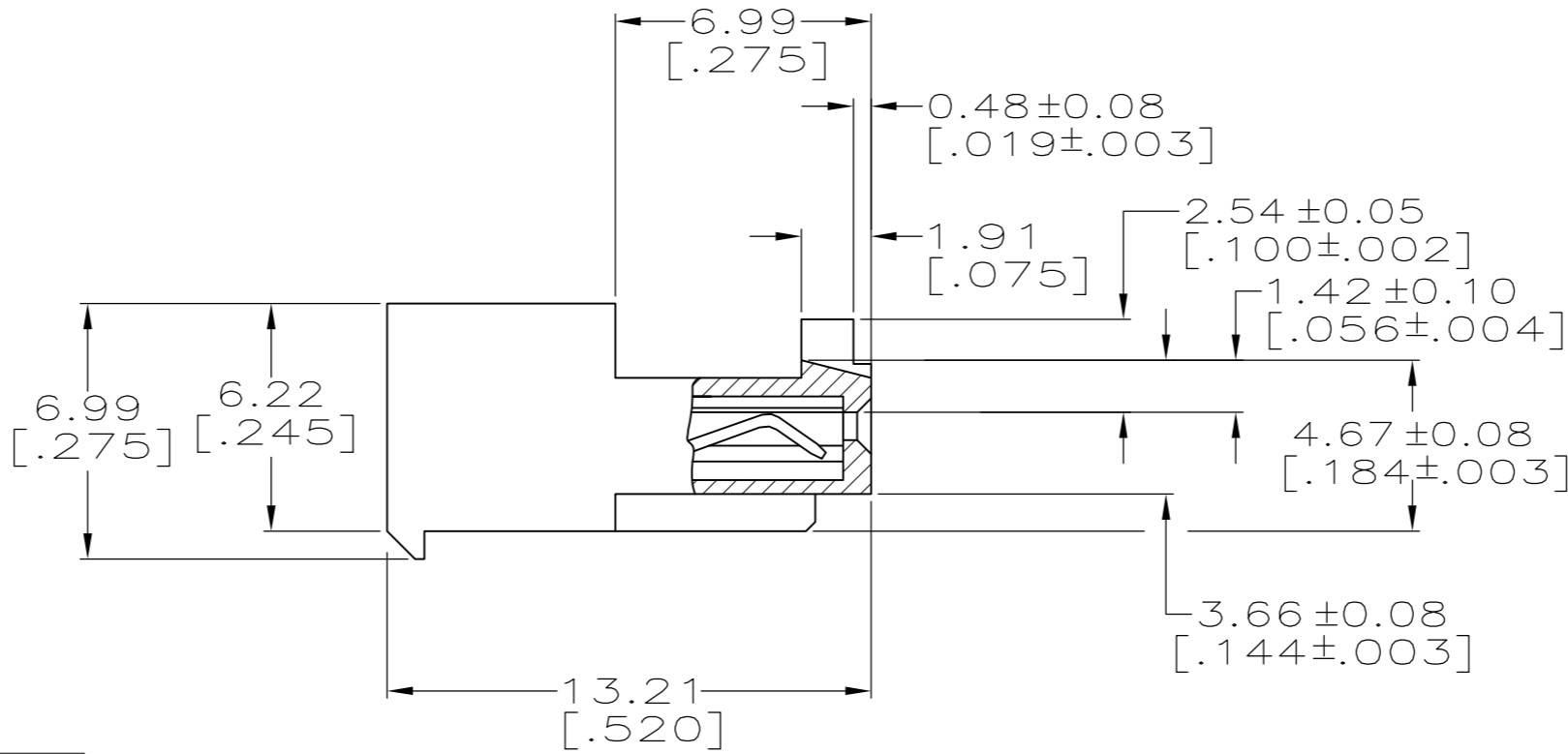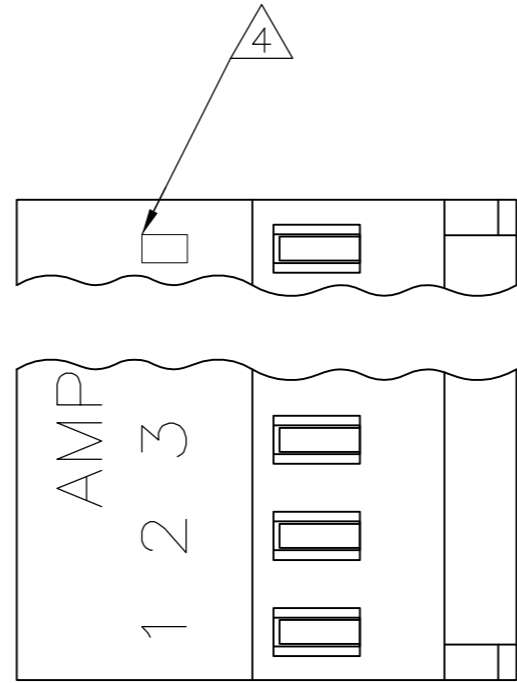- Packaging Method = Bag
- Packaging Quantity = 500

Other:
- Brand = AMP

THIS DRAWING IS UNPUBLISHED.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

LEADFREE	DIM A	NO. OF CIRCUITS	PART NO.	
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	

AMP
1 2 3
1 2 3

6.99 [.275]
0.48±0.08 [.019±.003]
2.54±0.05 [.100±.002]
1.91 [.075]
1.42±0.10 [.056±.004]
6.99 [.275]
6.22 [.245]
4.67±0.08 [.184±.003]
3.66±0.08 [.144±.003]
13.21 [.520]

A +0.38 / -0.25
A +.015 / -.010
.94±0.08 [.037±.003] TYP
2.54 [.100] TYP

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.

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

METRIC

THIS DRAWING IS A CONTROLLED DOCUMENT.			DWN S. CARPENTER 11JUN2003	TE Connectivity
DIMENSIONS: mm [INCHES]	TOLERANCES UNLESS OTHERWISE SPECIFIED:		CHK D. BOSSI 11JUN2003	
			APVD D. BOSSI 11JUN2003	MTA-100 CONNECTOR ASSEMBLY, 24 AWG, STANDARD
	0 PLC ±		NAME	
	1 PLC ±		PRODUCT SPEC 108-1050	
	2 PLC ±			
	3 PLC ± 0.13 [.005]		APPLICATION SPEC 114-1019	
	4 PLC ±			
	ANGLES ±			
MATERIAL	FINISH	WEIGHT		SIZE A2 / CAGE CODE 00779 / DRAWING NO C-643814 / RESTRICTED TO —
		CUSTOMER DRAWING		SCALE 5:1 / SHEET 1 of 1 / REV J2

643814

A/J BUSINESS GRP 3326 1/-34 BARRY LEWIS