



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](#)

1-643813-0 Product Details

Share |
 Print |
 Email



1-643813-0

TE Internal Number: 1-643813-0

Active

View 3D PDF

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

[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	
<p>Product Drawings:</p> <ul style="list-style-type: none"> • MTA 100 CONNECTOR ASSEMBLY, 22 AWG, STANDARD (PDF, English) <p>Catalog Pages/Data Sheets:</p> <ul style="list-style-type: none"> • MTA, CST-100 II, SL-156 and AMP Economy Power (EP) C... (PDF, English) <p>Product Specifications:</p> <ul style="list-style-type: none"> • None Available <p>Application Specifications:</p> <ul style="list-style-type: none"> • None Available <p>Instruction Sheets:</p> <ul style="list-style-type: none"> • None Available <p>CAD Files: (CAD Format & Compression Information)</p> <ul style="list-style-type: none"> • 2D Drawing (DXF, Version K) • 3D Model (IGES, Version K) • 3D Model (STEP, Version K) 	<p>Additional Information:</p> <ul style="list-style-type: none"> • Product Line Information <p>Related Products:</p> <ul style="list-style-type: none"> • Tooling • Mating Products (36)

[List all Documents](#)

Product Features (Please use the Product Drawing for all design activity)	
<p>Product Type Features:</p> <ul style="list-style-type: none"> • 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 <p>Mechanical Attachment:</p> <ul style="list-style-type: none"> • Contact Retention = With • Mating Retention Type = Locking Ramp • Panel Mount Retention = Without • Contact Retention Type = Locking Lance <p>Electrical Characteristics:</p> <ul style="list-style-type: none"> • Contact - Rated Current (A) = 5 • Operating Voltage Reference = AC • Operating Voltage (VAC) = 250 <p>Termination Features:</p> <ul style="list-style-type: none"> • Wire/Cable Size (mm²) = 0.3 - 0.4 • Wire/Cable Size (AWG) = 22 • Termination Method to Wire/Cable = IDC 	<p>Housing Features:</p> <ul style="list-style-type: none"> • 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 <p>Configuration Features:</p> <ul style="list-style-type: none"> • Number of Positions = 10 • Backwall/Post Interruption(s) = Without • Strain Relief = With • Number of Rows = 1 <p>Industry Standards:</p> <ul style="list-style-type: none"> • RoHS/ELV Compliance = Not ELV/RoHS compliant • Lead Free Solder Processes = Not relevant for lead free process • Agency/Standard = UL, CSA • UL Rating = Recognized • CSA Rating = Certified <p>Environmental:</p> <ul style="list-style-type: none"> • Operating Temperature (°C [°F]) = -55 - +105 [-67 - +221]

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 = Bright Tin-Lead
- Contact Layout = In-Line
- Multiple Contact Types = Without
- Contact Plating, Mating Area, Thickness (μm [μin]) = 2.03 - 5.08 [80 - 200]

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
- Comment = Stripe may run down between ribs

Corporate Information

[About TE](#)
[Investors](#)
[News Room](#)
[Supplier Portal](#)
[Careers](#)
[Terms & Conditions](#)
[Privacy Policy](#)

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

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

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.

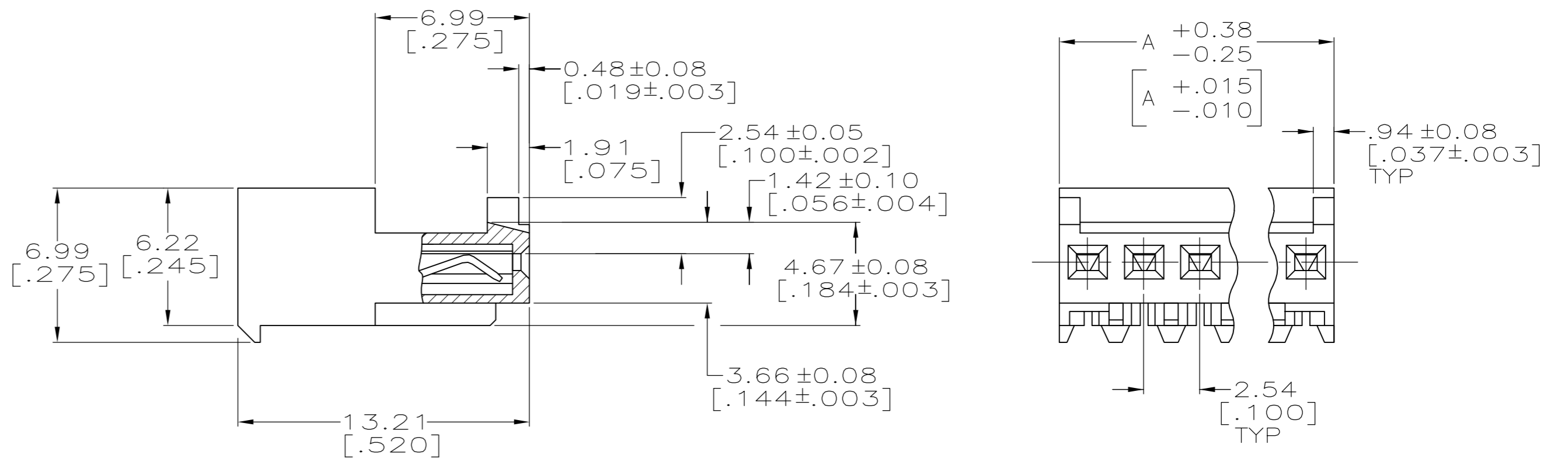
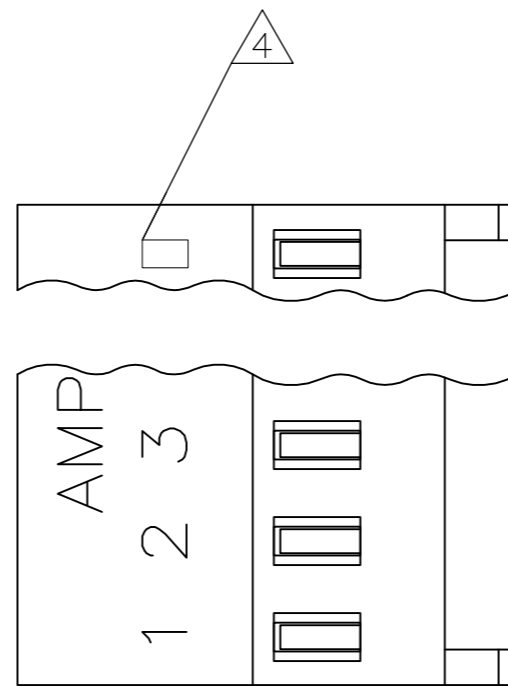
4 IDENTIFICATION NUMBER FOR LAST CIRCUIT MAY
 NOT APPEAR ON ALL ASSEMBLIES.

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		
4 PLC ±		SCALE 5:1 SHEET 1 of 1 REV J		
ANGLES ±				
FINISH				