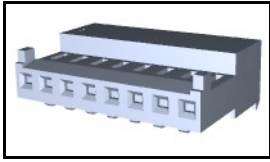


3-643813-8 Product Details

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3-643813-8

TE Internal Number: 3-643813-8

 Active

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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

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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:

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

[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
- [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:

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

Industry Standards:

- 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) = 0.3 - 0.4
- Wire/Cable Size (AWG) = 22

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

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

- [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

Operation/Application:

- Application Use = Wire-to-Post

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.

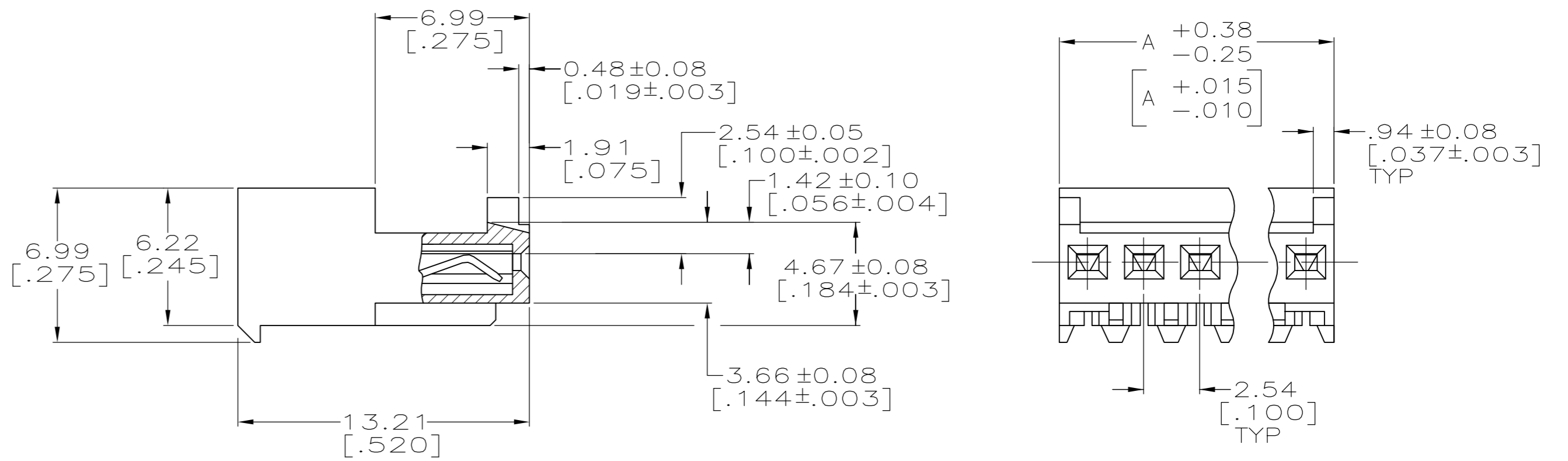
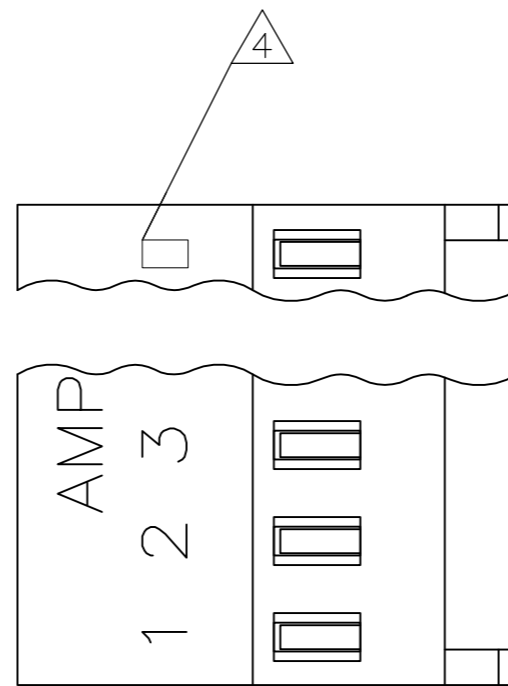
4 IDENTIFICATION NUMBER FOR LAST CIRCUIT MAY
 NOT APPEAR ON ALL ASSEMBLIES.

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	CAGE CODE 00779
1 PLC ±		APPLICATION SPEC 114-1019	DRAWING NO C=643813	RESTRICTED TO -
2 PLC ±		WEIGHT	SCALE 5:1	SHEET 1 of 1
3 PLC ± 0.13 [.005]		CUSTOMER DRAWING	REV J	
4 PLC ±				
ANGLES ±				
FINISH				