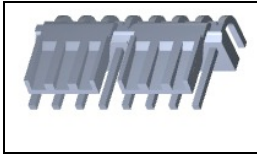


3-644629-8 Product Details

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3-644629-8

TE Internal Number: 3-644629-8

 Active [View 3D PDF](#)MTA, CST-100 II, MT-6 and SL
Connectors and HeadersAlways EU RoHS/ELV Compliant (Statement of
Compliance)

Product Highlights:

- MTA-156 Product Line
- MTA Series
- Wire-to-Board
- Applies To Printed Circuit Board
- Connector

[View all Features](#)

Quick Links

- ▶ [Pricing & Availability](#)
- ▶ [Search for Tooling](#)
- ▶ [View Mating Products \(33\)](#)
- ▶ [Product Feature Selector](#)
- ▶ [Contact Us About This Product](#)

Documentation & Additional Information

Product Drawings:

- [MTA 156 HEADER ASSEMBLY, POLARIZED LOCK, RIGHT ANGLE ...](#) (PDF, English)

Catalog Pages/Data Sheets:

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

Product Specifications:

- [System, Connector/Header, MTA 156](#) (PDF, English)

Application Specifications:

- None Available

Instruction Sheets:

- None Available

CAD Files: ([CAD Format & Compression Information](#))

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

[List all Documents](#)

Additional Information:

- [Product Line Information](#)

Related Products:

- [Tooling](#)
- [Mating Products \(33\)](#)

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

Product Type Features:

- [Product Line](#) = MTA-156
- Product Type = Connector
- Connector Type = Header
- Post Size (mm [in]) = 1.14 [.045]
- [PCB Mounting Orientation](#) = Right Angle
- PCB Mount Retention = Without
- PCB Mount Alignment = Without
- [Right Angle Bending Side](#) = Front
- Sealed = No
- UL File Number = E28476
- CSA File Number = LR7189

Mechanical Attachment:

- Contact Retention = Without
- Mating Retention Type = Polarized Lock
- [Panel Mount Retention](#) = Without

Electrical Characteristics:

- Contact - Rated Current (A) = 7
- Operating Voltage Reference = AC
- Operating Voltage (VAC) = 600

Termination Features:

- Termination Method to Wire/Cable = Solder
- Termination Method to PC Board = Through Hole - Solder

Dimensions:

- Mating Post Length (mm [in]) = 11.43 [0.450]
- Tail Length (mm [in]) = 3.18 [0.125]
- PCB Thickness, Recommended (mm [in]) = 1.57 [0.062]

Body Features:

- Header Type = Unshrouded
- Mating Retention = With
- Underplate Material Thickness (µm [µin]) = 1.27 [50.000]
- Assembly Integration Feature = Without

Housing Features:

- Connector Style = Plug
- Centerline (mm [in]) = 3.96 [0.156]
- Housing Style = Polarized Lock
- Housing Material = Polyester
- Housing Color = Natural
- [Mating Alignment](#) = Without
- UL Flammability Rating = UL 94V-0

Configuration Features:

- [Number of Positions](#) = 8
- [Backwall/Post Interruption\(s\)](#) = With
- [Backwall Interruption\(s\) Between Posts](#) = 4&5
- Strain Relief = Without
- Number of Rows = 1

Industry Standards:

- [RoHS/ELV Compliance](#) = RoHS compliant, ELV compliant
- [Lead Free Solder Processes](#) = Wave solder capable to 240°C, Wave solder capable to 260°C, Wave solder capable to 265°C
- 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](#) = Printed Circuit Board
- For Use With = MTA .156 Connector Assembly

Operation/Application:

- Application Use = Wire-to-Board

Packaging Features:

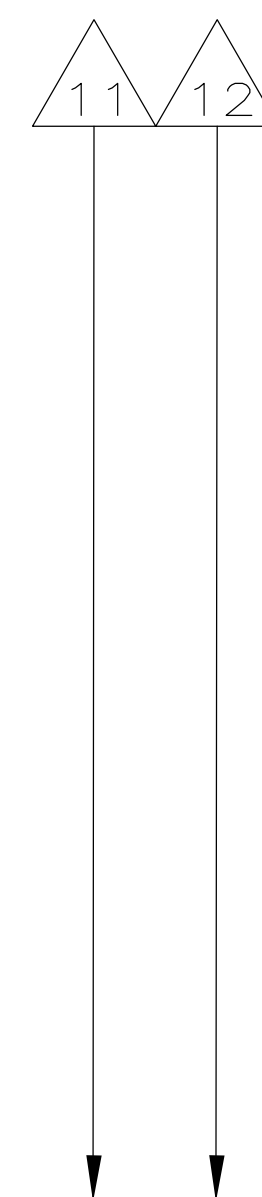
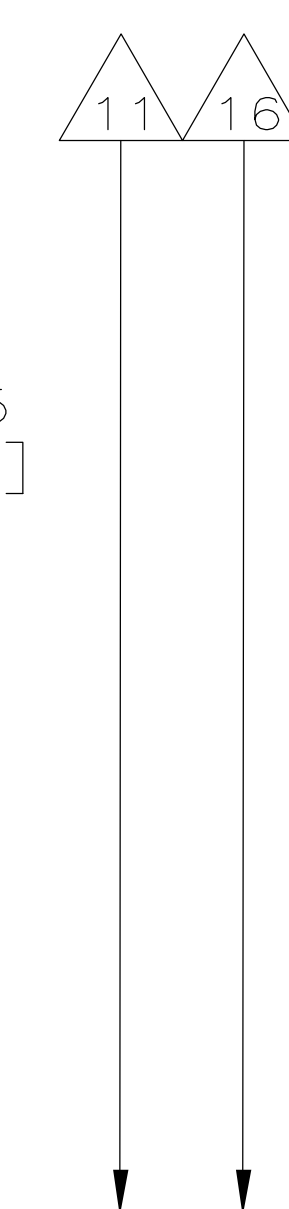
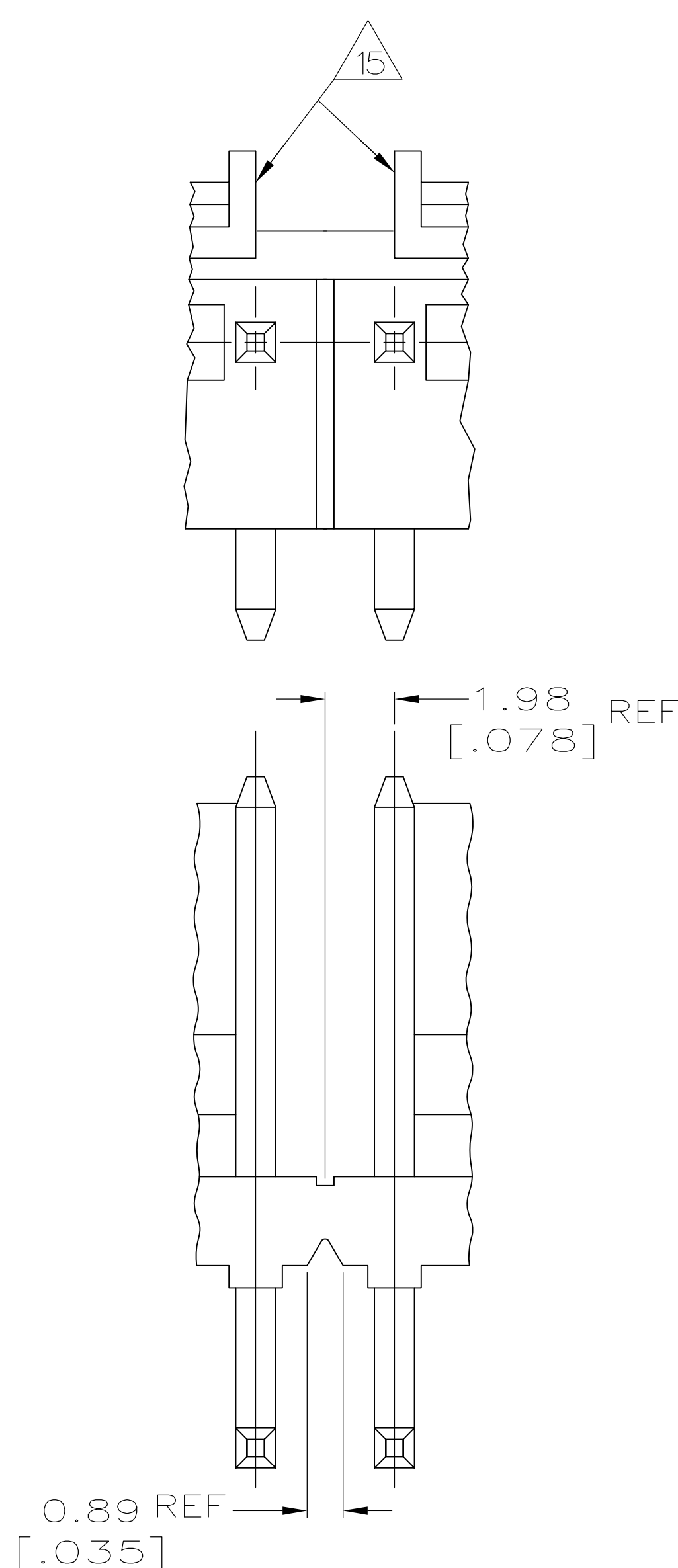
- Packaging Method = Package
- Packaging Quantity = 1

Contact Features:

- Contact Type = Pin
- Contact Shape = Square
- Contact Base Material = Copper Alloy
- Contact Plating, Mating Area, Material = Gold
- Tail Plating Material = Tin
- Contact Style = Right-Angle
- Contact Layout = In-Line
- Multiple Contact Types = Without
- Contact Plating, Mating Area, Thickness (µm [µin]) = 0.76 [29.92]
- Tail Plating Thickness (µm [µin]) = 3.81 – 8.89 [150 – 350]
- Underplate Material = Nickel

Other:

- Series = MTA
- Brand = AMP
- Comment = Peg holes are not required in PC Boards when headers without pegs are used



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1 MATERIAL
HOUSING: THERMOPLASTIC POLYESTER, GLASS FILLED, UL94V-O.
POST: COPPER ALLOY

2 FINISH
HOUSING: NATURAL
POST: SEE NOTES 11, 12 & 16 FOR PLATING.

3 UL MARKING MAY NOT APPEAR ON THE 2 OR 3 POSITION SIZES.
CSA MARKING MAY NOT APPEAR ON THE 2 POSITION SIZE.

4 POST SOLDER TAILS COMPLY WITH AMP SOLDERABILITY SPEC 109-11-2.

5 POST WITHSTANDS 13.34N [3 LB] MIN AXIAL FORCE IN EITHER DIRECTION WITHOUT DISLODGING.

6 APPLIES AT .

7 APPLIES WHEN THE HEADER IS STRAIGHT.

8 PLASTIC PROJECTIONS PERMITTED IN THIS ZONE.

9 COORDINATE DIMENSIONS APPLIES FROM THE CENTER OF THE ACTUAL FEATURE.

10 SOLDER SIDE OF BOARD IS SHOWN.

11 PLATING: GOLD PLATE AREA, 0.00076 [0.00030] GOLD OR 0.00008 [0.00003] MIN GOLD FLASH OVER 0.00068 [0.00027] PALLADIUM NICKEL, PER TE CONNECTIVITY'S DISCRETION, ALL SIDES, OVER NICKEL UNDERPLATE, .00127 [0.00050] MIN, ALL SIDES AND ENTIRE LENGTH OF POST.

12 MATTE TIN PLATE AREA, 0.00381-0.00889 [0.00150-0.000350] THK, ALL FOUR SIDES, 3.18 [0.125] MIN..

14. ALL POSITION SIZES HAVE THE BACKWALL NOTCHED ON BOTH ENDS AS SHOWN. THE 2 THRU 5 POSITION SIZES HAVE SOLID BACKWALLS. POSITION SIZES 6 AND ABOVE HAVE AN INTERRUPTED BACKWALL AT VARIOUS LOCATIONS (SEE TABLE FOR INTERRUPTION(S) LOCATIONS).

16 MATTE TIN PLATE AREA,0.00381-0.00889
[.000150-.000350] THK,ALL FOUR SIDES,3.18[.125] MIN..

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

4&5, 7&8, 11&12, 14&15	71.20	[2.803]	18	4-644629-8
4&5, 7&8, 10&11, 13&14	67.23	[2.647]	17	4-644629-7
4&5, 8&9, 12&13	63.27	[2.491]	16	4-644629-6
4&5, 8&9, 11&12	59.31	[2.335]	15	4-644629-5
4&5 7&8, 10&11	55.35	[2.179]	14	4-644629-4
4&5 7&8, 10&11	51.38	[2.023]	13	4-644629-3
4&5, 8&9	47.42	[1.867]	12	4-644629-2
4&5, 7&8	43.46	[1.711]	11	4-644629-1
3&4, 7&8	39.50	[1.555]	10	4-644629-0
3&4, 6&7	35.53	[1.399]	9	3-644629-9
4&5	31.57	[1.243]	8	3-644629-8
4&5	27.61	[1.087]	7	3-644629-7
3&4	23.65	[.931]	6	3-644629-6
NONE	19.69	[.775]	5	3-644629-5
NONE	15.72	[.619]	4	3-644629-4
NONE	11.76	[.463]	3	3-644629-3
NONE	7.80	[.307]	2	3-644629-2

Δ	SUPSD BY 4-644629-8	4&5, 7&8, 11&12, 14&15	71.20	[2.803]	18	—644629-8—
Δ	SUPSD BY 4-644629-7	4&5, 7&8, 10&11, 13&14	67.23	[2.647]	17	—644629-7—
Δ	SUPSD BY 4-644629-6	4&5, 8&9, 12&13	63.27	[2.491]	16	—644629-6—
Δ	SUPSD BY 4-644629-5	4&5, 8&9, 11&12	59.31	[2.335]	15	—644629-5—
Δ	SUPSD BY 4-644629-4	4&5 7&8, 10&11	55.35	[2.179]	14	—644629-4—
Δ	SUPSD BY 4-644629-3	4&5 7&8, 10&11	51.38	[2.023]	13	—644629-3—
Δ	SUPSD BY 4-644629-2	4&5, 8&9	47.42	[1.867]	12	—644629-2—
Δ	SUPSD BY 4-644629-1	4&5, 7&8	43.46	[1.711]	11	—644629-1—
		3&4, 7&8	39.50	[1.555]	10	—644629-0—
Δ	SUPSD BY 3-644629-9	3&4, 6&7	35.53	[1.399]	9	—644629-9—
		4&5	31.57	[1.243]	8	644629-8
Δ	SUPSD BY 3-644629-7	4&5	27.61	[1.087]	7	—644629-7—
Δ	SUPSD BY 3-644629-6	3&4	23.65	[.931]	6	—644629-6—
Δ	SUPSD BY 3-644629-5	NONE	19.69	[.775]	5	—644629-5—
		NONE	15.72	[.619]	4	644629-4
		NONE	11.76	[.463]	3	644629-3
		NONE	7.80	[.307]	2	644629-2
		BACKWALL INTERRUPTION(S) BETWEEN POST	L		NO OF POSITIONS	PART NO