🛒 My Cart | 🗔 My Part Lists | Sign In/Register   English (Change)
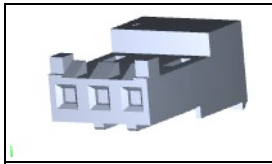
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3-643817-3 Product Details

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3-643817-3

TE Internal Number: 3-643817-3
✔ 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-156 Product Line
- MTA Series
- Wire-to-Post
- Applies To Wire/Cable
- Connector

View all Features

Add to My Part List   Request Sample   Find Similar Products   Buy Product

Quick Links
- Pricing & Availability
- Search for Tooling
- View Mating Products (27)
- Product Feature Selector
- Contact Us About This Product

Documentation & Additional Information

Product Drawings:
- MTA 156 CONNECTOR ASSEMBLY, 18 AWG, STANDARD (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:
- MTA 156 Connectors (PDF, English)
- MTA 156 Ribbon Cable Connector Assemblies (English A... (PDF, English)
- MTA 156 Ribbon Cable Connector Assemblies (English A... (PDF, Japanese)

Instruction Sheets:
- None Available

CAD Files: (CAD Format & Compression Information)
- 2D Drawing (DXF, Version H)
- 3D Model (IGES, Version H)
- 3D Model (STEP, Version H)

Additional Information:
- Product Line Information

Related Products:
- Tooling
- Mating Products (27)

List all Documents

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

Product Type Features:
- Product Line = MTA-156
- 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) = 7
- Operating Voltage Reference = AC
- Operating Voltage (VAC) = 600

Termination Features:
- Wire/Cable Size (mm²) = 0.8 – 0.9
- Wire/Cable Size (AWG) = 18

Housing Features:
- Connector Style = Receptacle
- Centerline (mm [in]) = 3.96 [0.156]
- Housing Style = Standard
- Housing Material = Nylon 6/6
- Housing Color = White
- Mating Alignment = With
- Mating Alignment Type = Polarizing Tab
- UL Flammability Rating = UL 94V-2

Configuration Features:
- Number of Positions = 3
- 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 = UL, CSA
- UL Rating = Recognized
- CSA Rating = Certified

Environmental:
- Operating Temperature (°C [°F]) = -55 – +105 [-67 – +221]

Conditions for Usage:

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

- Applies To = Wire/Cable
- Accepts Wire Insulation Diameter, Range (mm [in]) = 2.41 [0.095]
- For Use With = MTA .156 Header

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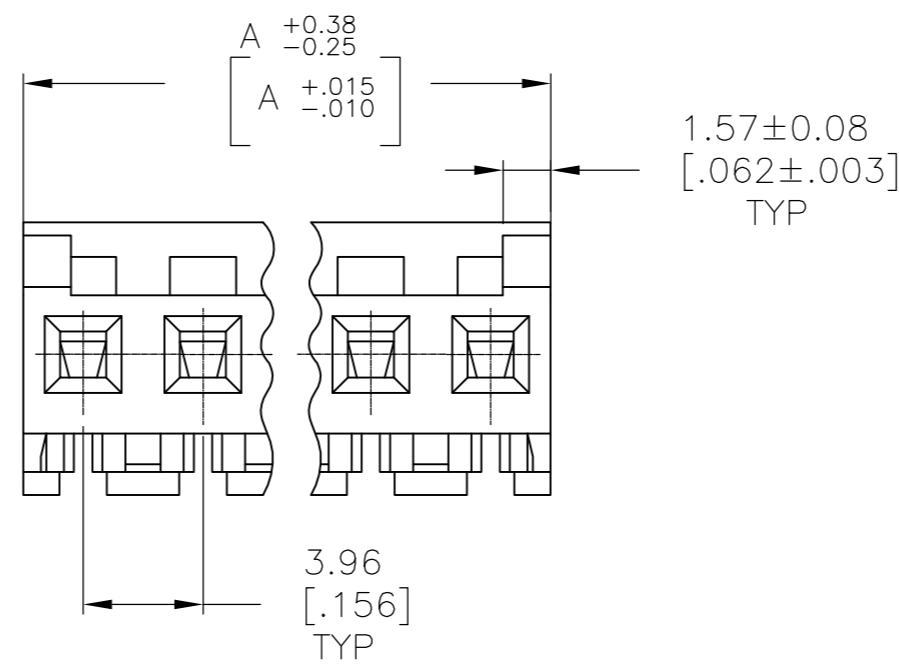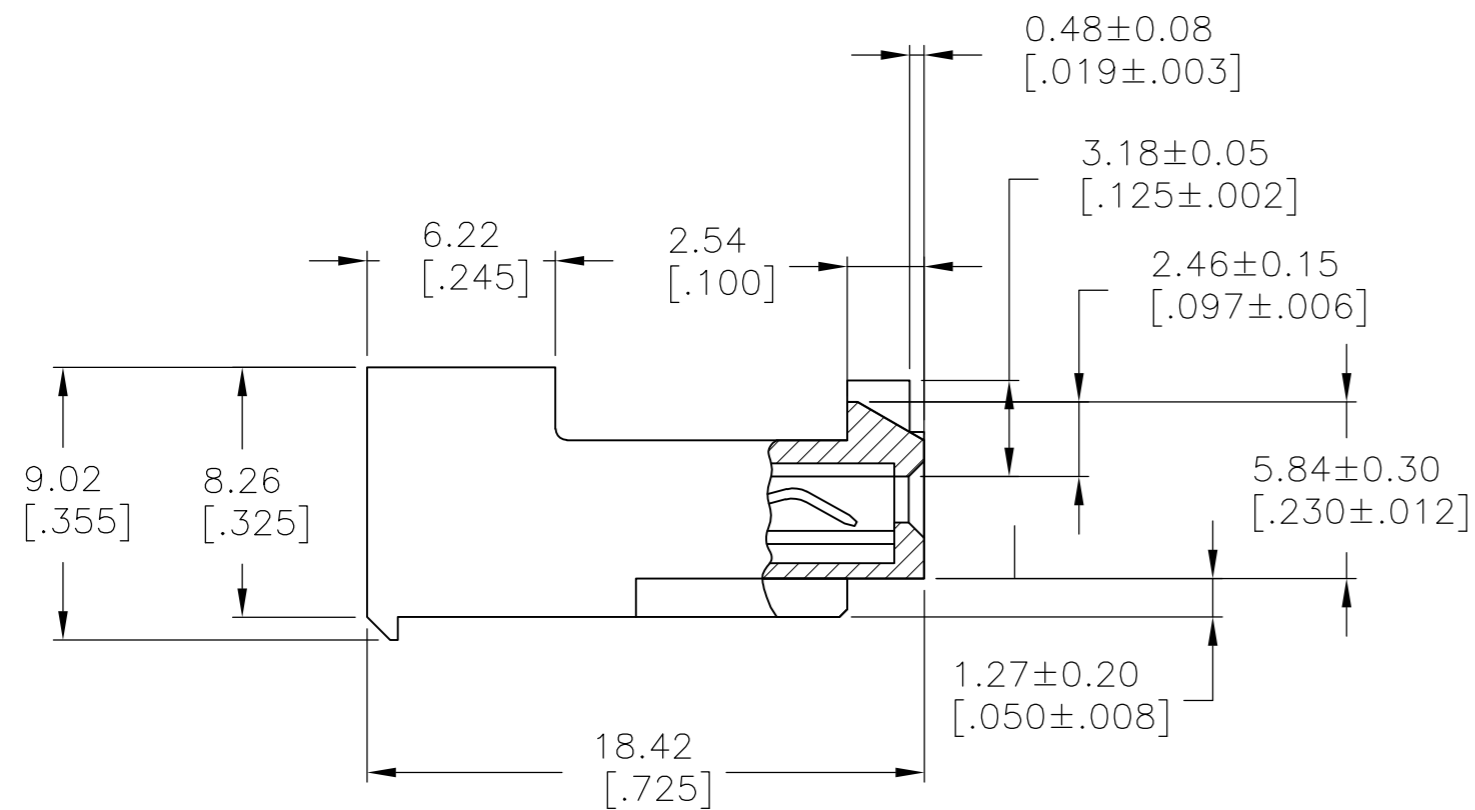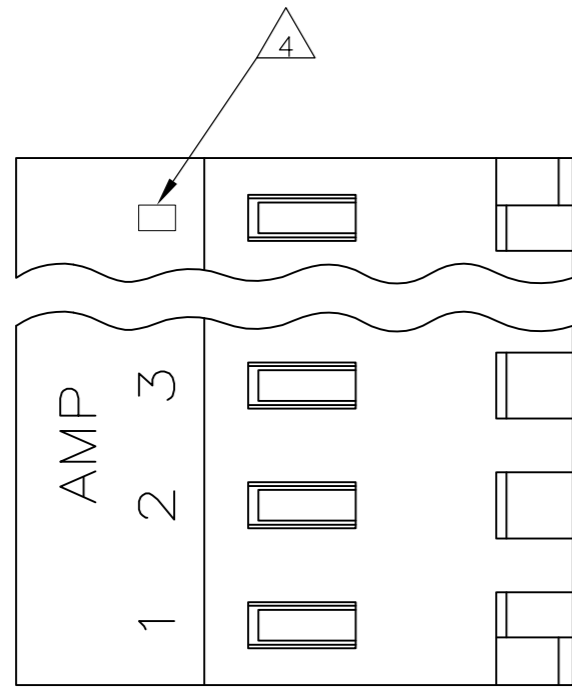- Application Use = Wire-to-Post

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

Other:
- Brand = AMP
- Comment = Stripe may run down between ribs

LOC	DIST			REVISIONS				
CM	00	P	LTR	DESCRIPTION		DATE	DWN	APVD
			J	REVISED PER ECO-12-007609		03AUG12	KH	SM

AMP
1 2 3

DIM A	NO. OF CIRCUITS	PART NO.
95.10[3.744]	24	5-643817-4
91.13[3.588]	23	5-643817-3
87.17[3.432]	22	5-643817-2
83.21[3.276]	21	5-643817-1
79.25[3.120]	20	5-643817-0
75.29[2.964]	19	4-643817-9
71.32[2.808]	18	4-643817-8
67.36[2.652]	17	4-643817-7
63.40[2.496]	16	4-643817-6
59.44[2.340]	15	4-643817-5
55.47[2.184]	14	4-643817-4
51.51[2.028]	13	4-643817-3
47.55[1.872]	12	4-643817-2
43.59[1.716]	11	4-643817-1
39.62[1.560]	10	4-643817-0
35.66[1.404]	9	3-643817-9
31.70[1.248]	8	3-643817-8
27.74[1.092]	7	3-643817-7
23.77[.936]	6	3-643817-6
19.81[.780]	5	3-643817-5
15.85[.624]	4	3-643817-4
11.89[.468]	3	3-643817-3
7.92[.312]	2	3-643817-2
⚠7 SUPERSEDED BY 5-643817-4 95.10[3.744]	24	2-643817-4
⚠7 SUPERSEDED BY 5-643817-3 91.13[3.588]	23	2-643817-3
⚠7 SUPERSEDED BY 5-643817-2 87.17[3.432]	22	2-643817-2
⚠7 SUPERSEDED BY 5-643817-1 83.21[3.276]	21	2-643817-1
79.25[3.120]	20	2-643817-0
⚠7 SUPERSEDED BY 4-643817-9 75.29[2.964]	19	1-643817-9
71.32[2.808]	18	1-643817-8
⚠7 SUPERSEDED BY 4-643817-7 67.36[2.652]	17	1-643817-7
63.40[2.496]	16	1-643817-6
59.44[2.340]	15	1-643817-5
55.47[2.184]	14	1-643817-4
51.51[2.028]	13	1-643817-3
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31.70[1.248]	8	643817-8
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23.77[.936]	6	643817-6
19.81[.780]	5	643817-5
15.85[.624]	4	643817-4
11.89[.468]	3	643817-3
7.92[.312]	2	643817-2

643817

Dimensions:
0.48±0.08 [.019±.003]
3.18±0.05 [.125±.002]
2.46±0.15 [.097±.006]
6.22 [.245]
2.54 [.100]
5.84±0.30 [.230±.012]
9.02 [.355]
8.26 [.325]
1.27±0.20 [.050±.008]
18.42 [.725]

A +0.38 −0.25
A +.015 −.010
1.57±0.08 [.062±.003] TYP
3.96 [.156] TYP

⚠1 MATERIAL: CONNECTOR - NYLON UL94-V2
CONTACTS - 0.30 [.012] THICK COPPER ALLOY
(BRIGHT TIN-LEAD 0.00203 [.000080] MIN. THICK
FOR CONTACTS 643817-2 THRU 2-643817-4).
(MATTE WHISKER MITIGATED TIN 0.00203 [.000080] MIN. THICK
FOR CONTACTS 3-643817-2 THRU 5-643817-4).

2 CONTACTS ACCEPT 18 AWG WIRE WITH 2.41 [.095] MAX
INSULATION DIAMETER.

3 CONTACTS MUST ACCEPT 1.14±0.03 [.045±.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 POLARIZING TAB.

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

8 ORANGE COLOR STRIPE ON HOUSING (NOT SHOWN) MAY RUN DOWN BETWEEN RIBS.

METRIC
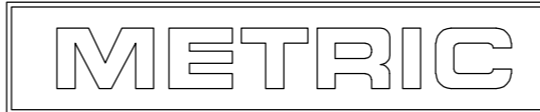
THIS DRAWING IS A CONTROLLED DOCUMENT.	DWN S. CARPENTER 09JUL2003	⩵TE TE Connectivity		
	CHK D. BOSSI 09JUL2003			
DIMENSIONS:	APVD D. BOSSI 09JUL2003	NAME		
mm [INCHES]	PRODUCT SPEC	MTA 156 CONNECTOR ASSEMBLY, 18 AWG, STANDARD		
TOLERANCES UNLESS OTHERWISE SPECIFIED:	108-1051			
0 PLC ± -	APPLICATION SPEC			
1 PLC ± -	114-1020	SIZE	CAGE CODE	DRAWING NO
2 PLC ± -		A2	00779	C-643817
3 PLC ± 0.13 [.005]				RESTRICTED TO -
4 PLC ± -	WEIGHT -			
ANGLES ± -				
MATERIAL ⚠1 FINISH ⚠1	CUSTOMER DRAWING	SCALE 4:1	SHEET 1 of 1	REV J