

4-647630-2 ✓ ACTIVE



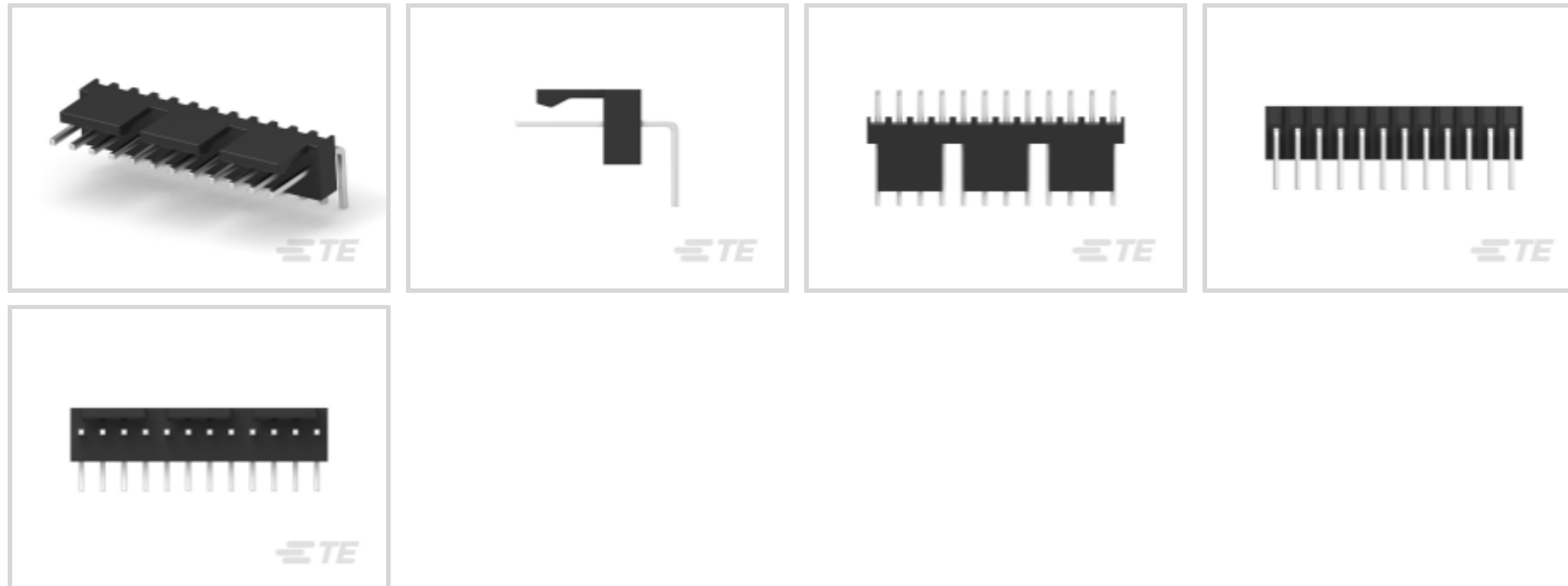
## MTA 100

TE Internal #: 4-647630-2

PCB Mount Header, Right Angle, Wire-to-Board, 12 Position, 2.54 mm [.1 in] Centerline, Partially Shrouded, Tin, Through Hole - Solder, Signal, MTA 100

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Connectors > PCB Connectors > PCB Headers & Receptacles > PCB Header: Polyester, Right Angle, Unshrouded



Connector System: **Wire-to-Board**

Number of Positions: **12**

Number of Rows: **1**

Centerline (Pitch): **2.54 mm [.1 in]**

PCB Mount Orientation: **Right Angle**

[All PCB Header: Polyester, Right Angle, Unshrouded \(257\)](#)

## Features

### Product Type Features

|                                   |                       |
|-----------------------------------|-----------------------|
| Connector System                  | Wire-to-Board         |
| Header Type                       | Partially Shrouded    |
| Sealable                          | No                    |
| Connector & Contact Terminates To | Printed Circuit Board |
| PCB Connector Assembly Type       | PCB Mount Header      |

### Configuration Features

|                       |             |
|-----------------------|-------------|
| Number of Positions   | 12          |
| Number of Rows        | 1           |
| PCB Mount Orientation | Right Angle |

### Electrical Characteristics

|                   |         |
|-------------------|---------|
| Operating Voltage | 250 VAC |
|-------------------|---------|

### Body Features



|                   |      |
|-------------------|------|
| Connector Profile | High |
|-------------------|------|

|                       |       |
|-----------------------|-------|
| Primary Product Color | Black |
|-----------------------|-------|

### Contact Features

|                |        |
|----------------|--------|
| Contact Layout | Inline |
|----------------|--------|

|                            |                 |
|----------------------------|-----------------|
| Contact Mating Area Length | 7.37 mm[.29 in] |
|----------------------------|-----------------|

|                              |                 |
|------------------------------|-----------------|
| Mating Square Post Dimension | .64 mm[.025 in] |
|------------------------------|-----------------|

|   |  |
|---|--|
| PCB Contact Termination Area Plating Material Thickness | 3.81 – 6.3 $\mu\text{m}$ [150 – 250 $\mu\text{in}$ ] |
|---|--|

|   |   |
|---|---|
| Contact Underplating Material Thickness | 1.27 $\mu\text{m}$ [50 $\mu\text{in}$ ] |
|---|---|

|  |  |
|--|--|
| Contact Mating Area Plating Material Thickness | 3.81 $\mu\text{m}$ [150 $\mu\text{in}$ ] |
|--|--|

|  |       |
|--|-------|
| PCB Contact Termination Area Plating Material Finish | Matte |
|--|-------|

|                      |        |
|----------------------|--------|
| Contact Shape & Form | Square |
|----------------------|--------|

|   |       |
|---|-------|
| Contact Mating Area Plating Material Finish | Matte |
|---|-------|

|                               |        |
|-------------------------------|--------|
| Contact Underplating Material | Nickel |
|-------------------------------|--------|

|   |     |
|---|-----|
| PCB Contact Termination Area Plating Material | Tin |
|---|-----|

|                       |              |
|-----------------------|--------------|
| Contact Base Material | Copper Alloy |
|-----------------------|--------------|

|                                      |     |
|--------------------------------------|-----|
| Contact Mating Area Plating Material | Tin |
|--------------------------------------|-----|

|              |     |
|--------------|-----|
| Contact Type | Pin |
|--------------|-----|

|                              |     |
|------------------------------|-----|
| Contact Current Rating (Max) | 5 A |
|------------------------------|-----|

### Termination Features

|  |                 |
|--|-----------------|
| Square Termination Post & Tail Dimension | .64 mm[.025 in] |
|--|-----------------|

|                                |                 |
|--------------------------------|-----------------|
| Termination Post & Tail Length | 3.56 mm[.14 in] |
|--------------------------------|-----------------|

|   |                       |
|---|-----------------------|
| Termination Method to Printed Circuit Board | Through Hole - Solder |
|---|-----------------------|

### Mechanical Attachment

|                       |              |
|-----------------------|--------------|
| Mating Alignment Type | Polarization |
|-----------------------|--------------|

|                  |      |
|------------------|------|
| Mating Retention | With |
|------------------|------|

|                     |         |
|---------------------|---------|
| Panel Mount Feature | Without |
|---------------------|---------|

|                       |               |
|-----------------------|---------------|
| Mating Retention Type | Friction Lock |
|-----------------------|---------------|

|                         |             |
|-------------------------|-------------|
| Connector Mounting Type | Board Mount |
|-------------------------|-------------|

|                  |      |
|------------------|------|
| Mating Alignment | With |
|------------------|------|

|                     |         |
|---------------------|---------|
| PCB Mount Alignment | Without |
|---------------------|---------|

|                     |         |
|---------------------|---------|
| PCB Mount Retention | Without |
|---------------------|---------|

### Housing Features

|                          |       |
|--------------------------|-------|
| Right Angle Bending Side | Front |
|--------------------------|-------|



|                  |        |
|------------------|--------|
| Housing Material | PBT GF |
|------------------|--------|

|                    |                 |
|--------------------|-----------------|
| Centerline (Pitch) | 2.54 mm [.1 in] |
|--------------------|-----------------|

### Dimensions

|                  |                   |
|------------------|-------------------|
| Connector Length | 30.48 mm [1.2 in] |
|------------------|-------------------|

|                  |                  |
|------------------|------------------|
| Connector Height | 6.35 mm [.25 in] |
|------------------|------------------|

|                 |                    |
|-----------------|--------------------|
| Connector Width | 14.13 mm [.558 in] |
|-----------------|--------------------|

|                             |                   |
|-----------------------------|-------------------|
| PCB Thickness (Recommended) | 1.57 mm [.062 in] |
|-----------------------------|-------------------|

### Usage Conditions

|                             |                             |
|-----------------------------|-----------------------------|
| Operating Temperature Range | -55 – 105 °C [-67 – 221 °F] |
|-----------------------------|-----------------------------|

### Operation/Application

|                     |        |
|---------------------|--------|
| Circuit Application | Signal |
|---------------------|--------|

### Industry Standards

|            |           |
|------------|-----------|
| CSA Rating | Certified |
|------------|-----------|

|                 |         |
|-----------------|---------|
| Agency/Standard | CSA, UL |
|-----------------|---------|

|                    |                       |
|--------------------|-----------------------|
| Approved Standards | CSA LR7189, UL E28476 |
|--------------------|-----------------------|

|                        |          |
|------------------------|----------|
| UL Flammability Rating | UL 94V-0 |
|------------------------|----------|

### Packaging Features

|                    |     |
|--------------------|-----|
| Packaging Quantity | 250 |
|--------------------|-----|

|                |          |
|----------------|----------|
| Packaging Type | Bag, Box |
|----------------|----------|

### Product Compliance

[For compliance documentation, visit the product page on TE.com>](#)

|                              |           |
|------------------------------|-----------|
| EU RoHS Directive 2011/65/EU | Compliant |
|------------------------------|-----------|

|                             |           |
|-----------------------------|-----------|
| EU ELV Directive 2000/53/EC | Compliant |
|-----------------------------|-----------|

|   |   |
|---|---|
| China RoHS 2 Directive MIIT Order No 32, 2016 | No Restricted Materials Above Threshold |
|---|---|

|  |   |
|--|---|
| EU REACH Regulation (EC) No. 1907/2006 | Current ECHA Candidate List: JUNE 2022 (224)<br>Candidate List Declared Against: JUNE 2022 (224)<br>Does not contain REACH SVHC |
|--|---|

|                 |  |
|-----------------|--|
| Halogen Content | Not Low Halogen - contains Br or Cl > 900 ppm. |
|-----------------|--|

|                           |                              |
|---------------------------|------------------------------|
| Solder Process Capability | Wave solder capable to 240°C |
|---------------------------|------------------------------|

Product Compliance Disclaimer

This information is provided based on reasonable inquiry of our suppliers and represents our current actual knowledge based on the information they provided. This information is subject to change. The part numbers that TE has identified as EU RoHS compliant have a maximum concentration of 0.1% by weight in homogenous materials for lead, hexavalent chromium, mercury, PBB, PBDE, DBP, BBP, DEHP, DIBP, and 0.01% for cadmium, or qualify for an exemption to these limits as defined in the Annexes of Directive 2011/65/EU (RoHS2). Finished electrical and electronic equipment products will be CE marked as required by Directive 2011/65/EU. Components may not be CE marked. Additionally, the part numbers that TE has identified as EU ELV compliant have a maximum concentration of 0.1% by weight in homogenous materials for lead, hexavalent chromium, and mercury, and 0.01% for cadmium, or qualify for an exemption to these limits as defined in the Annexes of Directive 2000/53/EC (ELV). Regarding the REACH Regulation, the information TE provides on SVHC in articles for this part number is based on the latest European Chemicals Agency (ECHA) 'Guidance on requirements for substances in articles' posted at this URL: <https://echa.europa.eu/guidance-documents/guidance-on-reach>

## Compatible Parts



TE Part # CAT-104MTA-NTPNR  
MTA Receptacle: Nylon, Tin Plated, 2.54 mm



TE Part # CAT-104MTA-NTPMR  
Nylon Tin Plated Receptacle: 2.54 mm, with Mating Alignment, MTA 100




TE Part # CAT-104MTA-PLSCC  
Polyester PCB Connector Covers: 2.54 mm, MTA 100



TE Part # CAT-104MTA-NYLCC  
Nylon PCB Connector Covers: 2.54 mm, MTA 100

## Also in the Series | MTA 100



Insertion & Extraction Tools(2)




PCB Connector Covers(107)



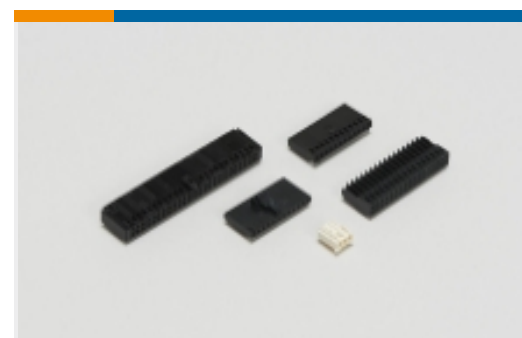
PCB Connector Keying(1)




PCB Headers & Receptacles(1181)



Standard Rectangular Connectors (1718)



Wire-to-Board Connector Assemblies & Housings(1)



Wire-to-Board Connector Contacts(18)

## Documents

Product Drawings

12P MTA100 HRD ASSY F/L LF

English



### CAD Files

#### 3D PDF

3D

#### Customer View Model

[ENG\\_CVM\\_CVM\\_4-647630-2\\_D\\_c-4-647630-2-d.2d\\_dxf.zip](#)

English

#### Customer View Model

[ENG\\_CVM\\_CVM\\_4-647630-2\\_D\\_c-4-647630-2-d.3d\\_igs.zip](#)

English

#### Customer View Model

[ENG\\_CVM\\_CVM\\_4-647630-2\\_D\\_c-4-647630-2-d.3d\\_stp.zip](#)

English

By downloading the CAD file I accept and agree to the [Terms and Conditions](#) of use.

### Datasheets & Catalog Pages

[MTA, CST-100 II, SL-156 and AMP Economy Power \(EP\) Connectors](#)

English

### Product Specifications

[Product Specification](#)

English

### Agency Approvals

[Agency Approval Document](#)

English