

4-647002-0 ✓ ACTIVE

## MTA 100

TE Internal #: 4-647002-0

Standard Rectangular Connectors, Connector Assembly, Plug, Mating Alignment, Polarization Mating Alignment Type, Mating Retention, MTA 100

[View on TE.com >](#)



Connectors > Rectangular Connectors > Standard Rectangular Connectors > MTA Plug: Nylon Tin Plated, MA



Connector Product Type: **Connector Assembly**

Connector & Housing Type: **Plug**

Mating Alignment: **With**

Mating Alignment Type: **Polarization**

Mating Retention: **With**

[All MTA Plug: Nylon Tin Plated, MA \(81\)](#)

## Features

### Product Type Features

|                                   |                    |
|-----------------------------------|--------------------|
| Product Style                     | Assembly           |
| Shape                             | Rectangular        |
| Wire/Cable Type                   | Stranded           |
| Connector Type                    | Connector Assembly |
| Connector Product Type            | Connector Assembly |
| Connector & Housing Type          | Plug               |
| Connector System                  | Wire-to-Wire       |
| Insertion Force Type              | Normal             |
| Sealable                          | No                 |
| Connector & Contact Terminates To | Wire & Cable       |

### Configuration Features

|                     |    |
|---------------------|----|
| Number of Cavities  | 10 |
| Number of Positions | 10 |



|                |   |
|----------------|---|
| Number of Rows | 1 |
|----------------|---|

### Electrical Characteristics

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

### Contact Features

|                |         |
|----------------|---------|
| Contact Layout | In-line |
|----------------|---------|

|              |     |
|--------------|-----|
| Contact Type | Tab |
|--------------|-----|

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

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

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

|                                  |      |
|----------------------------------|------|
| Contact Retention Within Housing | With |
|----------------------------------|------|

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

### Termination Features

|                                    |                               |
|------------------------------------|-------------------------------|
| Termination Method to Wire & Cable | Insulation Displacement (IDC) |
|------------------------------------|-------------------------------|

### Mechanical Attachment

|             |    |
|-------------|----|
| Panel Mount | No |
|-------------|----|

|                                       |               |
|---------------------------------------|---------------|
| Contact Retention Type Within Housing | Locking Lance |
|---------------------------------------|---------------|

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

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

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

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

|                       |       |
|-----------------------|-------|
| Mating Retention Type | Latch |
|-----------------------|-------|

|                         |                            |
|-------------------------|----------------------------|
| Connector Mounting Type | Cable Mount (Free-Hanging) |
|-------------------------|----------------------------|

### Housing Features

|               |      |
|---------------|------|
| Housing Color | Blue |
|---------------|------|

|                  |           |
|------------------|-----------|
| Housing Material | Nylon 6/6 |
|------------------|-----------|

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

### Dimensions

|       |                  |
|-------|------------------|
| Width | 21.4 mm[.843 in] |
|-------|------------------|

|        |                   |
|--------|-------------------|
| Height | 12.54 mm[.494 in] |
|--------|-------------------|

|        |                  |
|--------|------------------|
| Length | 27.94 mm[1.1 in] |
|--------|------------------|

|           |                           |
|-----------|---------------------------|
| Wire Size | .12 – .15 mm <sup>2</sup> |
|-----------|---------------------------|

### Usage Conditions



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

### Operation/Application

|                     |        |
|---------------------|--------|
| Shielded            | No     |
| Circuit Application | Signal |

### Industry Standards

|                        |            |
|------------------------|------------|
| CSA Rating             | Certified  |
| Agency/Standard        | CSA, UL    |
| UL Rating              | Recognized |
| CSA File Number        | LR 7189    |
| UL File Number         | E28476     |
| UL Flammability Rating | UL 94V-2   |

### Packaging Features

|                    |         |
|--------------------|---------|
| Packaging Quantity | 75      |
| Packaging Method   | 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                               | Low Halogen - Br, Cl, F, I < 900 ppm per homogenous material. Also BFR/CFR/PVC Free   |
| Solder Process Capability                     | Not applicable for solder process capability  |

#### Product Compliance Disclaimer

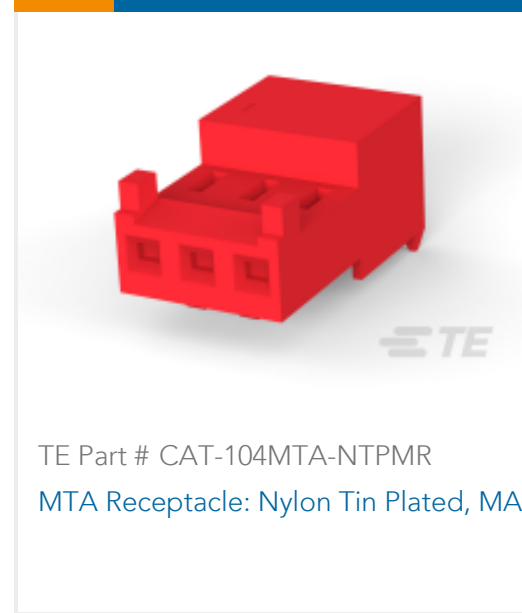
This information is provided based on reasonable inquiry of our suppliers and represents our current actual knowledge based on the information they provided. This information is subject to change. The part numbers that TE has identified as EU RoHS compliant have a maximum concentration of 0.1% by weight 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, No MA



TE Part # CAT-104MTA-NTPMR  
MTA Receptacle: Nylon Tin Plated, MA



TE Part # CAT-104MTA-NYLCC  
MTA 100 Connector Cover: Nylon



TE Part # CAT-104MTA-PLSCC  
MTA 100 Connector Cover: Polyester



TE Part # 58074-1  
MTA 50/100/156 MANUAL TOOL FRAME

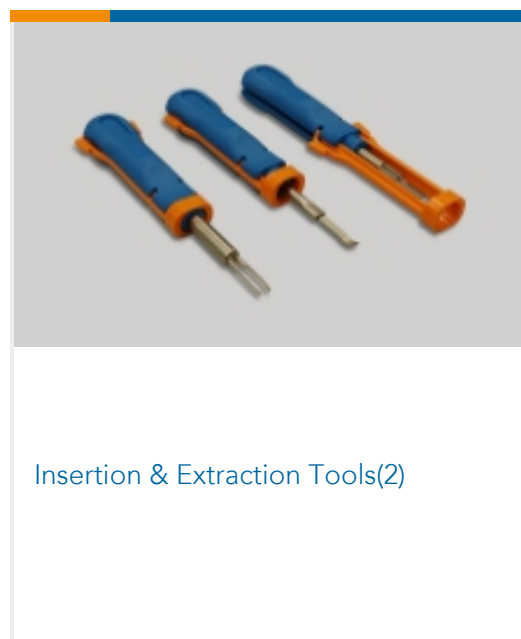


TE Part # 58638-1  
MTA 100 CRIMP HEAD PRODUCTION POSTED



TE Part # 58639-1  
MTA 100 POSTED MANUAL TOOL ASSEMBLY

## Also in the Series | MTA 100



Insertion & Extraction Tools(2)



PCB Connector Covers(107)



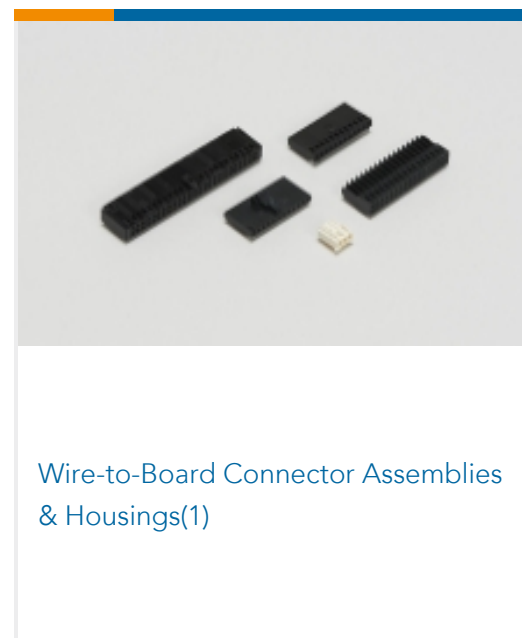
PCB Connector Keying(1)



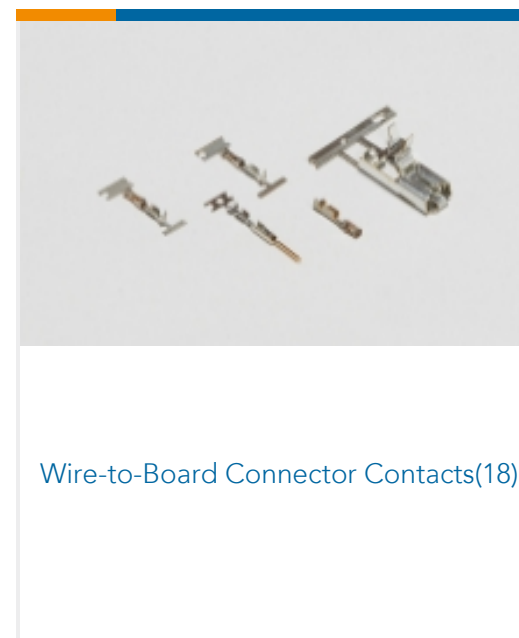
PCB Headers & Receptacles(1181)



Standard Rectangular Connectors (1718)



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



Wire-to-Board Connector Contacts(18)

## Documents

### Product Drawings

10P MTA100 PSTD CONN ASSY LF



English

---

**CAD Files**

Customer View Model

[ENG\\_CVM\\_CVM\\_4-647002-0\\_D.2d\\_dxf.zip](#)

English

**3D PDF**

3D

Customer View Model

[ENG\\_CVM\\_CVM\\_4-647002-0\\_D.3d\\_igs.zip](#)

English

Customer View Model

[ENG\\_CVM\\_CVM\\_4-647002-0\\_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**

[Application Specification](#)

English

---

**Agency Approvals**

[Agency Approval Document](#)

English