

4-647166-0 ✓ ACTIVE

## MTA 100

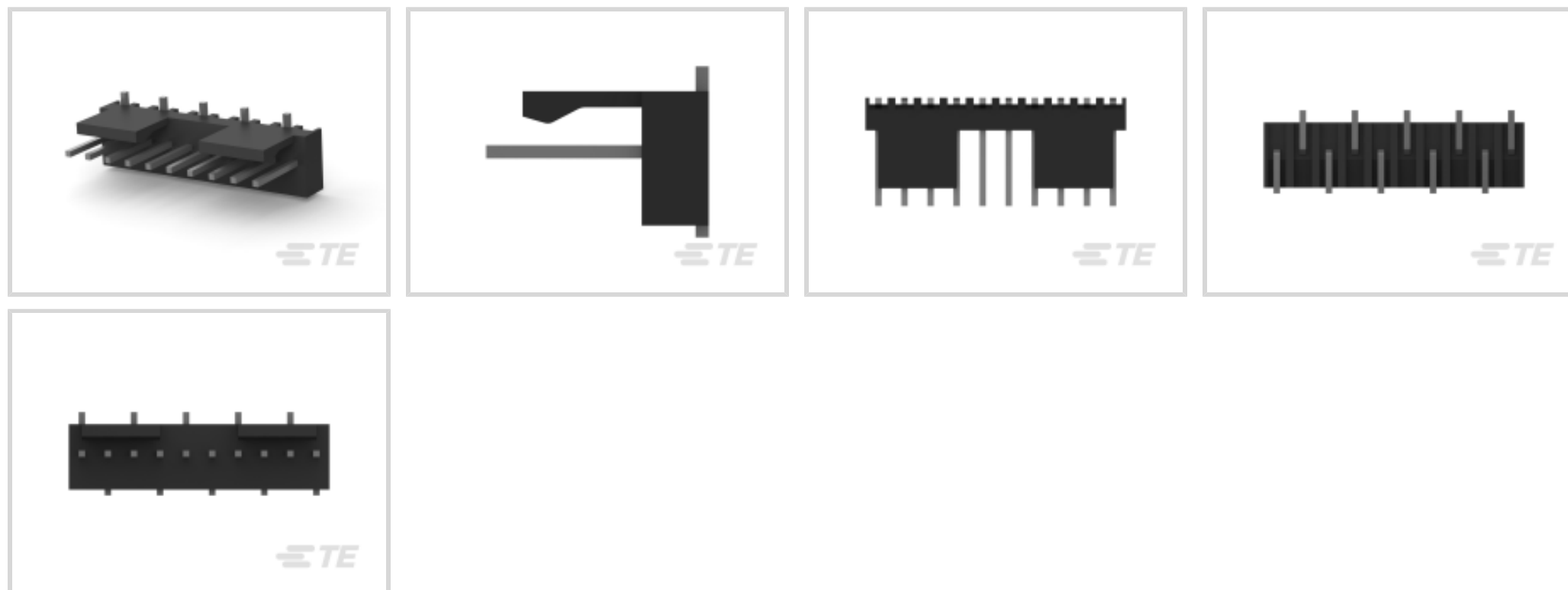
TE Internal #: 4-647166-0

PCB Mount Header, Vertical, Wire-to-Board, 10 Position, 2.54 mm [.1 in] Centerline, Partially Shrouded, Tin, Surface Mount, Signal, Black, MTA 100

[View on TE.com >](#)



Connectors > PCB Connectors > PCB Headers & Receptacles > PCB Header: Nylon, Vertical, Surface Mount, MTA 100



EU RoHS Compliance: **Compliant**

EU ELV Compliance: **Compliant**

PCB Connector Assembly Type: **PCB Mount Header**

PCB Mount Orientation: **Vertical**

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

[All PCB Header: Nylon, Vertical, Surface Mount, MTA 100 \(39\)](#)

## Features

### Other

EU RoHS Compliance	Compliant
EU ELV Compliance	Compliant

### Product Type Features

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

### Configuration Features

Number of Columns	10
PCB Mount Orientation	Vertical
Number of Positions	10



Number of Rows	1
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### Electrical Characteristics

Operating Voltage	250 VAC
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### Body Features

Primary Product Color	Black
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### Contact Features

Contact Underplating Material	Nickel
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Contact Underplating Material Thickness	1.27 $\mu$ m[50 $\mu$ in]
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PCB Contact Termination Area Plating Material Finish	Matte
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Contact Mating Area Plating Material Thickness	3.81 $\mu$ m[150 $\mu$ in]
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Mating Square Post Dimension	.64 mm[.025 in]
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PCB Contact Termination Area Plating Material Thickness	3.81 – 6.3 $\mu$ m[150 – 250 $\mu$ in]
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Contact Shape & Form	Square
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Contact Layout	Inline
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Contact Mating Area Length	7.37 mm[.29 in]
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Contact Base Material	Copper Alloy
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PCB Contact Termination Area Plating Material	Tin
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Contact Mating Area Plating Material Finish	Matte
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Contact Mating Area Plating Material	Tin
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Contact Type	Pin
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Contact Current Rating (Max)	5 A
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### Termination Features

Square Termination Post & Tail Dimension	.64 mm[.025 in]
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Termination Method to PCB	Surface Mount
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### Mechanical Attachment

Panel Mount Feature	Without
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Mating Retention Type	Friction Lock
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Mating Retention	With
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Mating Alignment Type	Polarization
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PCB Mount Retention	Without
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PCB Mount Alignment	Without
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Connector Mounting Type	Board Mount
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Mating Alignment With

### Housing Features

Housing Material Nylon 4/6

Centerline (Pitch) 2.54 mm [.1 in]

### Dimensions

Connector Width 6.35 mm [.25 in]

PCB Thickness (Recommended) .25 mm [.01 in]

Connector Height 10.66 mm [.42 in]

Connector Length 25.4 mm [1 in]

### Usage Conditions

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

### Operation/Application

Circuit Application Signal

### Industry Standards

Compatible With Agency/Standards Products UL, CSA

Compatible With Approved Standards Products UL E28476, CSA LR7189

UL Flammability Rating UL 94V-0

### Packaging Features

Packaging Quantity 500

Packaging Method Box, Bag

### 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 2024 (241)  
 Candidate List Declared Against: JUNE 2024 (241)  
 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

Reflow solder capable to 260°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-NYLCC  
Nylon PCB Connector Covers: 2.54 mm, MTA 100

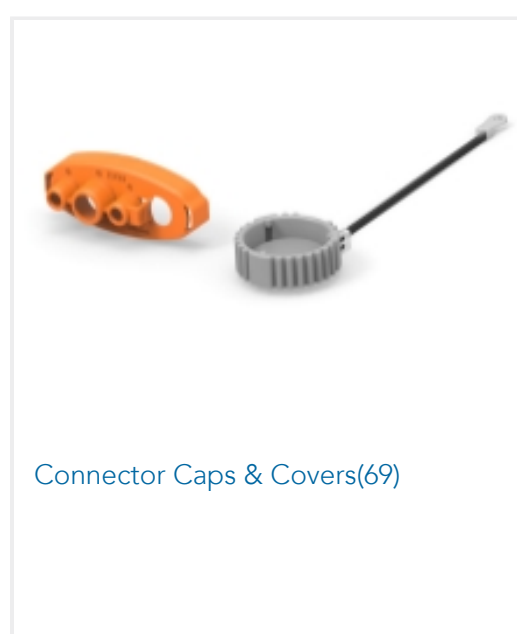


TE Part # CAT-104MTA-PLSCC  
Polyester PCB Connector Covers: 2.54 mm, MTA 100

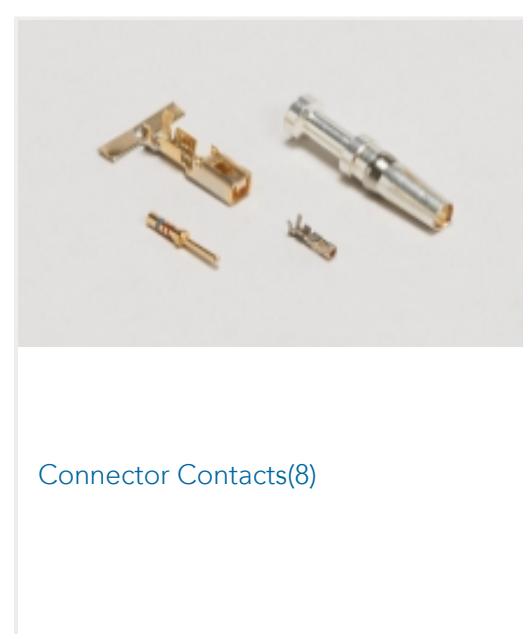


TE Part # 1-1375820-0  
CST-100 II HOUSING 10 POS

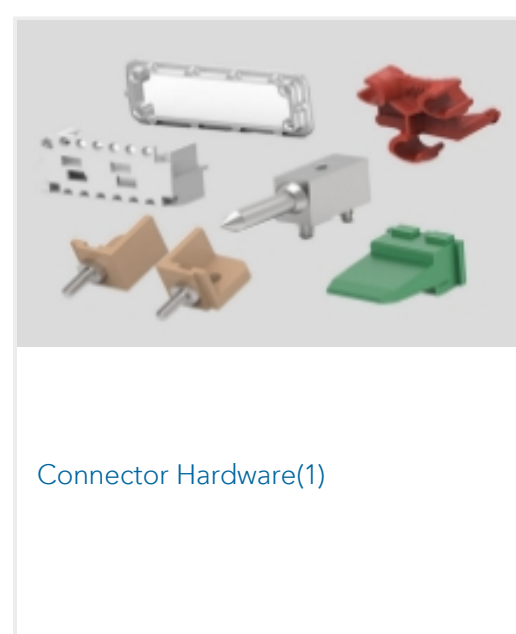
## Also in the Series | MTA 100



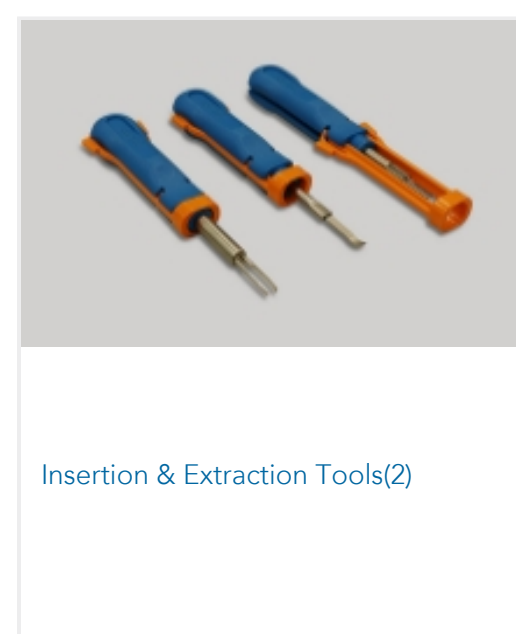
Connector Caps & Covers(69)



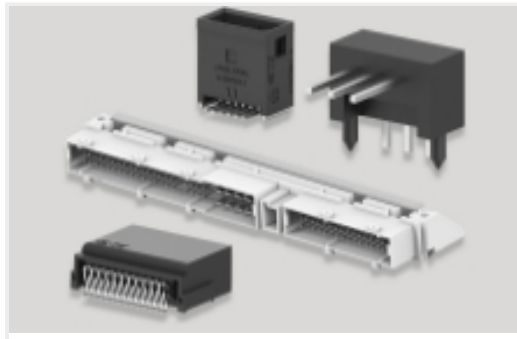
Connector Contacts(8)



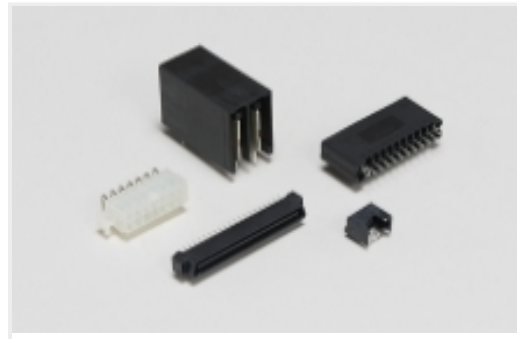
Connector Hardware(1)



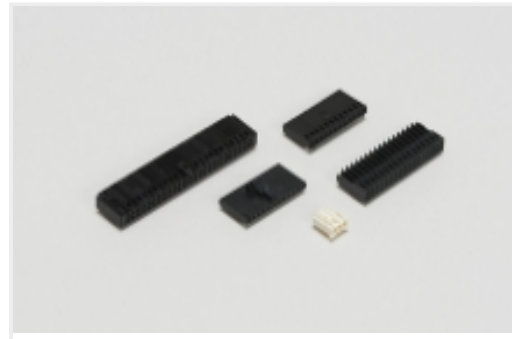
Insertion & Extraction Tools(2)



PCB Headers & Receptacles(441)

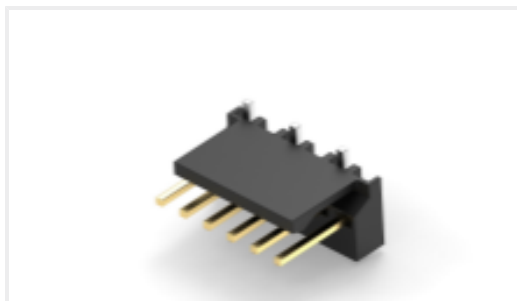


Standard Rectangular Connectors(495)



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

## Customers Also Bought



TE Part #3-647166-5  
PCB Header: Nylon, Vertical, Surface Mount, MTA 100



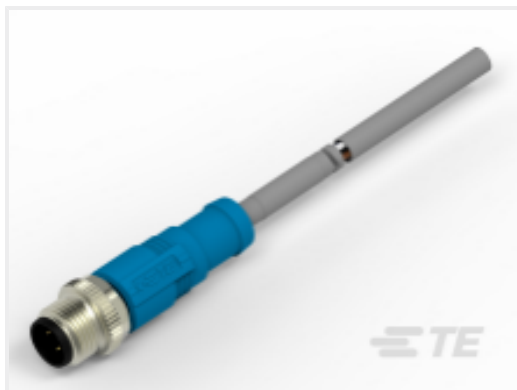
TE Part #1-5747301-4  
37 RCPT SP/FMS SCRLK



TE Part #3-640441-7  
07P MTA100 CONN ASSY WHT



TE Part #1558660-3  
T9GV5L14-12



TE Part #T4151120004-003  
RPC-M12-MS-4CON-PUR-1.5

## Documents

### CAD Files

[3D PDF](#)

[3D](#)

### Customer View Model

[ENG\\_CVM\\_CVM\\_4-647166-0\\_M\\_c-4-647166-0-m.2d\\_dxf.zip](#)

English

### Customer View Model

[ENG\\_CVM\\_CVM\\_4-647166-0\\_M\\_c-4-647166-0-m.3d\\_igs.zip](#)

English

### Customer View Model

[ENG\\_CVM\\_CVM\\_4-647166-0\\_M\\_c-4-647166-0-m.3d\\_stp.zip](#)

English

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

### Product Specifications

[Application Specification](#)

English



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[Agency Approvals](#)

[Agency Approval Document](#)

English