



MTA | MTA 100

TE Internal #: 2-640454-1

MTA 100, PCB Mount Header, Vertical, Wire-to-Board, 21 Position,
2.54mm [.1in] Centerline, 1 Row, Tin, Natural Housing Color,
Partially Shrouded

[View on TE.com >](#)

Connectors > PCB Connectors > Wire-to-Board Connectors > Wire-to-Board Headers & Receptacles >

Polyester Vertical PCB Header: 2.54mm, With Mating Alignment, Unshrouded



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

PCB Mount Orientation: **Vertical**

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

Number of Positions: **21**

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

[All Polyester Vertical PCB Header: 2.54mm, With Mating Alignment, Unshrouded \(62\)](#)

Features

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

PCB Mount Orientation	Vertical
Number of Positions	21
Number of Rows	1

Electrical Characteristics

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



Contact Features

Contact Layout	Inline
Contact Mating Area Length	7.49 mm[.295 in]
Mating Square Post Dimension	.64 mm[.025 in]
Contact Retention Within Housing	Without
PCB Contact Termination Area Plating Material Thickness	3.81 μm[150 μin]
Contact Underplating Material Thickness	1.27 μm[50 μin]
Contact Shape & Form	Square
Contact Underplating Material	Nickel
PCB Contact Termination Area Plating Material	Tin
Contact Base Material	Copper Alloy
Contact Mating Area Plating Material	Tin
Contact Mating Area Plating Material Finish	Matte
Contact Mating Area Plating Material Thickness	3.81 μm[150 μin]
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 Wire & Cable	Solder
Termination Method to Printed Circuit Board	Through Hole - Solder

Mechanical Attachment

Strain Relief	Without
Mating Alignment Type	Polarization
Mating Alignment	With
Panel Mount Feature	Without
PCB Mount Alignment	Without
Mating Retention	Without
PCB Mount Retention	Without
Connector Mounting Type	Board Mount

Housing Features

Centerline (Pitch)	2.54 mm[.1 in]
Housing Color	Natural



Housing Material	Polyester - GF
------------------	----------------

Dimensions

Connector Length	55.88 mm[2.2 in]
Connector Height	7.75 mm[.305 in]
PCB Thickness (Recommended)	1.6 mm[.063 in]

Usage Conditions

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

Operation/Application

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

Industry Standards

CSA Rating	Certified
UL Flammability Rating	UL 94V-0
Agency/Standard	CSA, UL
CSA File Number	LR7189
UL Rating	Recognized
UL File Number	E28476

Packaging Features

Packaging Quantity	1
Packaging Method	Package

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: JAN 2021 (211) Candidate List Declared Against: JAN 2021 (211) Does not contain REACH SVHC
Halogen Content	Not Low Halogen - contains Br or Cl > 900 ppm.
Solder Process Capability	Hand solderable with tin/lead solder



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-104CST-RCPHS
Receptacle Housing: 2.54mm, 1 Row, CST-100 II



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

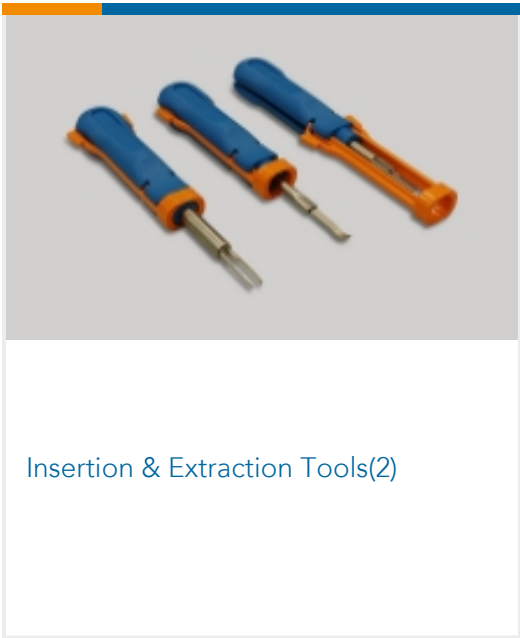


TE Part # CAT-104MTA-NTPNR
Nylon Tin Plated Receptacle: 2.54mm, No Mating Alignment, MTA 100



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

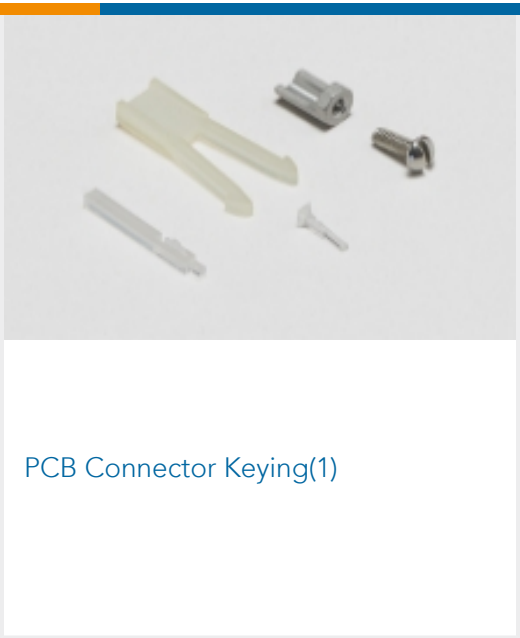
Also in the Series | MTA 100



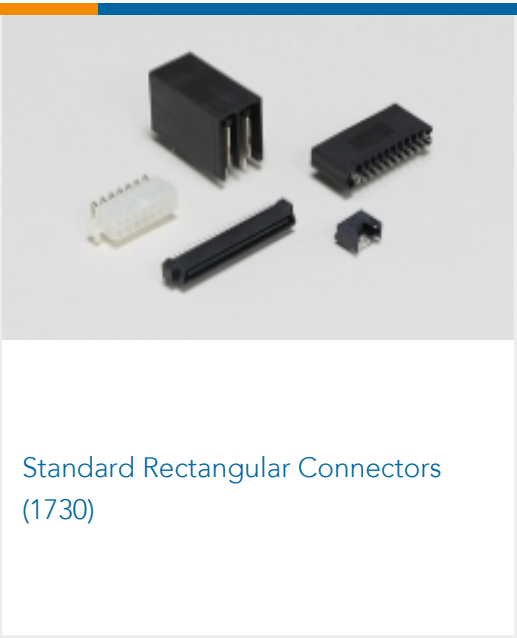
Insertion & Extraction Tools(2)



PCB Connector Covers(107)



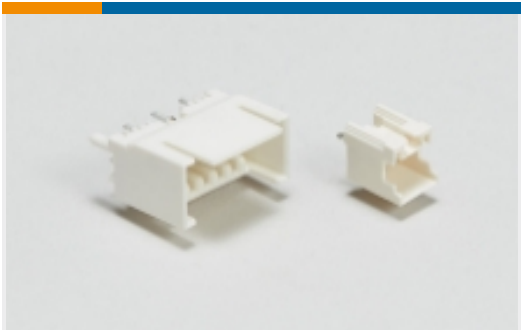
PCB Connector Keying(1)



Standard Rectangular Connectors (1730)



Wire-to-Board Connector Contacts(18)



Wire-to-Board Headers & Receptacles (1182)

Customers Also Bought



TE Part #0462-209-16141
DEUTSCH SOLID CONTACTS



TE Part #1-1393766-5
R10-E1X4-V2.5K=R10



TE Part #W6P
DEUTSCH DT WEDGELOCKS



TE Part #114017-ZZ
DEUTSCH SEALING PLUGS



TE Part #1-1825190-0
DIP Shunt,12 pos



TE Part #1-480698-0
02P UMNL PLUG HSG NATL



TE Part #1-2176374-4
RQ 0805 147R 0.1% 10PPM 1K RL

Documents

Product Drawings

21P MTA100 HDR ASSY SQ STR POL

English

CAD Files

3D PDF

3D

Customer View Model

ENG_CVM_CVM_2-640454-1_AA.2d_dxf.zip

English

Customer View Model

ENG_CVM_CVM_2-640454-1_AA.3d_igs.zip

English

Customer View Model

ENG_CVM_CVM_2-640454-1_AA.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

Agency Approvals

Agency Approval Document

English