



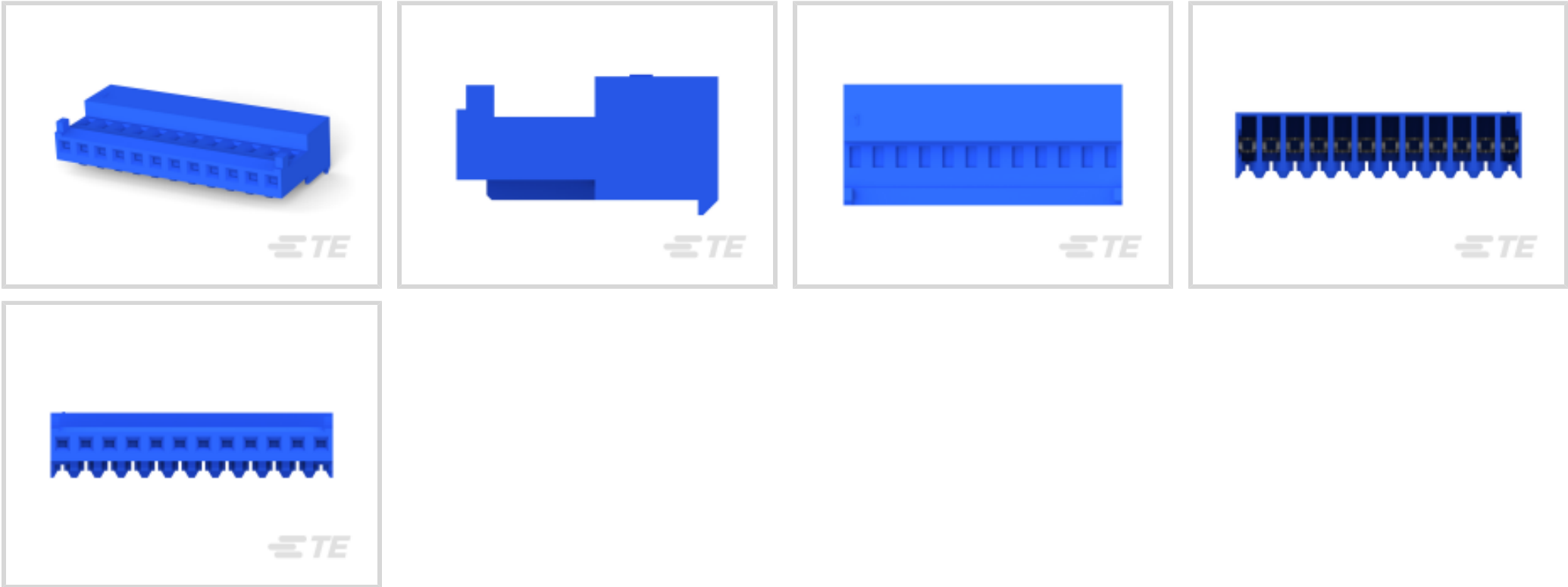
MTA 100

TE Internal #: 4-643815-2

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

[View on TE.com >](#)

Connectors > Rectangular Connectors > Standard Rectangular Connectors > Nylon Tin Plated Receptacle: 2.54 mm, with Mating Alignment, MTA 100



Connector Product Type: **Connector Assembly**  
Connector & Housing Type: **Receptacle**  
Mating Alignment: **With**  
Mating Alignment Type: **Polarization**  
Mating Retention: **With**

[All Nylon Tin Plated Receptacle: 2.54 mm, with Mating Alignment, MTA 100 \(127\)](#)

Features

Product Type Features

|                                    |                    |
|------------------------------------|--------------------|
| Compatible With Discrete Wire Type | Stranded           |
| Connector Product Type             | Connector Assembly |
| Connector & Housing Type           | Receptacle         |
| Connector System                   | Wire-to-Board      |
| Sealable                           | No                 |
| Connector & Contact Terminates To  | Wire & Cable       |

Configuration Features

|                     |     |
|---------------------|-----|
| Number of Cavities  | 12  |
| Contacts Preloaded  | Yes |
| Number of Positions | 12  |
| Number of Rows      | 1   |

Electrical Characteristics

|  |  |
|--|--|
|  |  |
|--|--|



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

Contact Features

|                                                |            |
|------------------------------------------------|------------|
| Contact Type                                   | Receptacle |
| 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

|                                       |                            |
|---------------------------------------|----------------------------|
| Contact Retention Type Within Housing | Locking Lance              |
| Mating Alignment                      | With                       |
| Mating Alignment Type                 | Polarization               |
| Mating Retention                      | With                       |
| Mating Retention Type                 | Locking Ramp               |
| Connector Mounting Type               | Cable Mount (Free-Hanging) |

Housing Features

|                    |                |
|--------------------|----------------|
| Housing Material   | Nylon          |
| Housing Color      | Blue           |
| Centerline (Pitch) | 2.54 mm[.1 in] |

Dimensions

|                  |                  |
|------------------|------------------|
| Connector Height | 13.21 mm[.52 in] |
| Product Width    | 6.99 mm[.275 in] |
| Product Length   | 30.48 mm[1.2 in] |
| Wire Size        | .12 – .15 mm²    |

Usage Conditions

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

Operation/Application

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

Industry Standards



|                        |            |
|------------------------|------------|
| CSA Rating             | LR 7189    |
| UL Rating              | Recognized |
| Agency/Standard        | CSA, UL    |
| Approved Standards     | UL E28476  |
| UL Flammability Rating | UL 94V-2   |

Packaging Features

|                    |         |
|--------------------|---------|
| Packaging Quantity | 500     |
| 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 2023 (235)<br>Candidate List Declared Against: JUNE 2023 (235)<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-PRUSH  
PCB Header: Polyester, Right Angle, Unshrouded

TE Part # 1-640454-2  
12P MTA100 HDR ASSY SQ STR POL

TE Part # 1-640455-2  
12P MTA100 HDR ASSY SQ R/A POL

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

TE Part # CAT-104MTA-PVUNH  
PCB Header: Polyester, Vertical, Unshrouded, No Mating Alignment

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

TE Part # CAT-104MTA-PVSHH  
Polyester Vertical PCB Header: 2.54 mm, Shrouded, MTA 100

TE Part # CAT-104MTA-NVSMH  
Nylon Vertical PCB Header: 2.54mm, Surface Mount, MTA 100

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

TE Part # 4-644456-2  
12P MTA100 HDR ASSY (NARROW)

TE Part # 4-647000-2  
12P MTA100 PSTD CONN ASSY LF

TE Part # 58246-3  
MTA 100 CRIMP HEAD PRODUCTION RBBN CABLE

TE Part # 58579-1  
MTA 100 MANUAL TOOL ASSEMBLY DISCRETE

TE Part # 58039-1  
MTA 100 ARBOR FIXTURE DISCRETE RBN CABLE

TE Part # 58246-2  
MTA 100 CRIMP HEAD PRODUCTION DISCRETE

Also in the Series | MTA 100

Insertion & Extraction Tools(2)

PCB Connector Covers(69)

PCB Connector Keying(1)

PCB Headers & Receptacles(440)



Standard Rectangular Connectors(495)



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

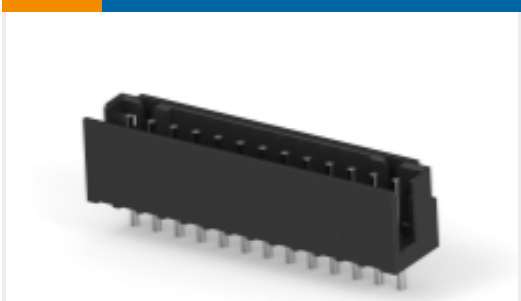


Wire-to-Board Connector Contacts(8)

Customers Also Bought



TE Part #4-643813-2  
12P MTA100 CONN ASSY POL RIB



TE Part #292132-3  
CT 2mm Post Header Asmby: Box V DIP



TE Part #292206-3  
MINI CT SGL DIP H 3P NAT



TE Part #4-643818-2  
12P MTA156 CONN ASSY 20AWG YEL



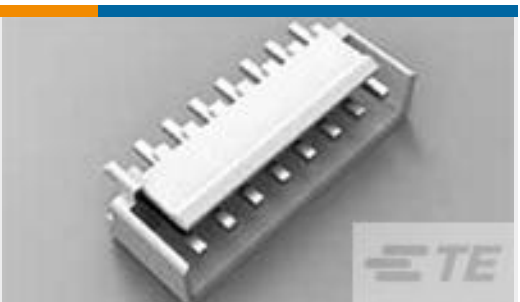
TE Part #1825057-3  
ADE0404=DIP SWITCH,EXT,THRU/HL



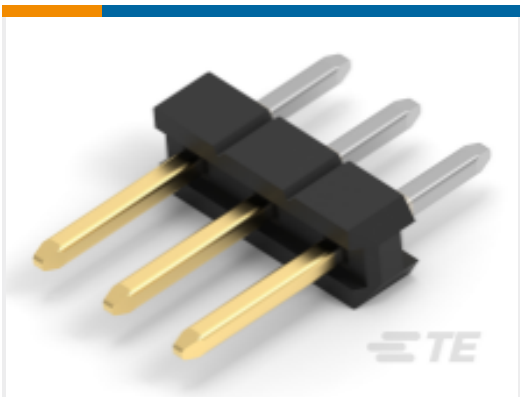
TE Part #1393243-4  
RTE24012



TE Part #1-292207-4  
MINI CT SGL DIP V 14P NAT



TE Part #1877285-3  
03P EP SHRD HDR ASMY, WHITE



TE Part #2355177-3  
3P,2MM,BRK HDR,SRVT,2.8,0.38AU,TB

Documents

Product Drawings

12P MTA100 CONN ASSY POL RIB

English

CAD Files

Customer View Model

ENG\_CVM\_CVM\_4-643815-2\_K.2d\_dxf.zip

English

3D PDF



3D

Customer View Model

[ENG\\_CVM\\_CVM\\_4-643815-2\\_K.3d\\_igs.zip](#)

English

Customer View Model

[ENG\\_CVM\\_CVM\\_4-643815-2\\_K.3d\\_stp.zip](#)

English

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Product Specifications

[Application Specification](#)

English

Agency Approvals

[Agency Approval Document](#)

English