



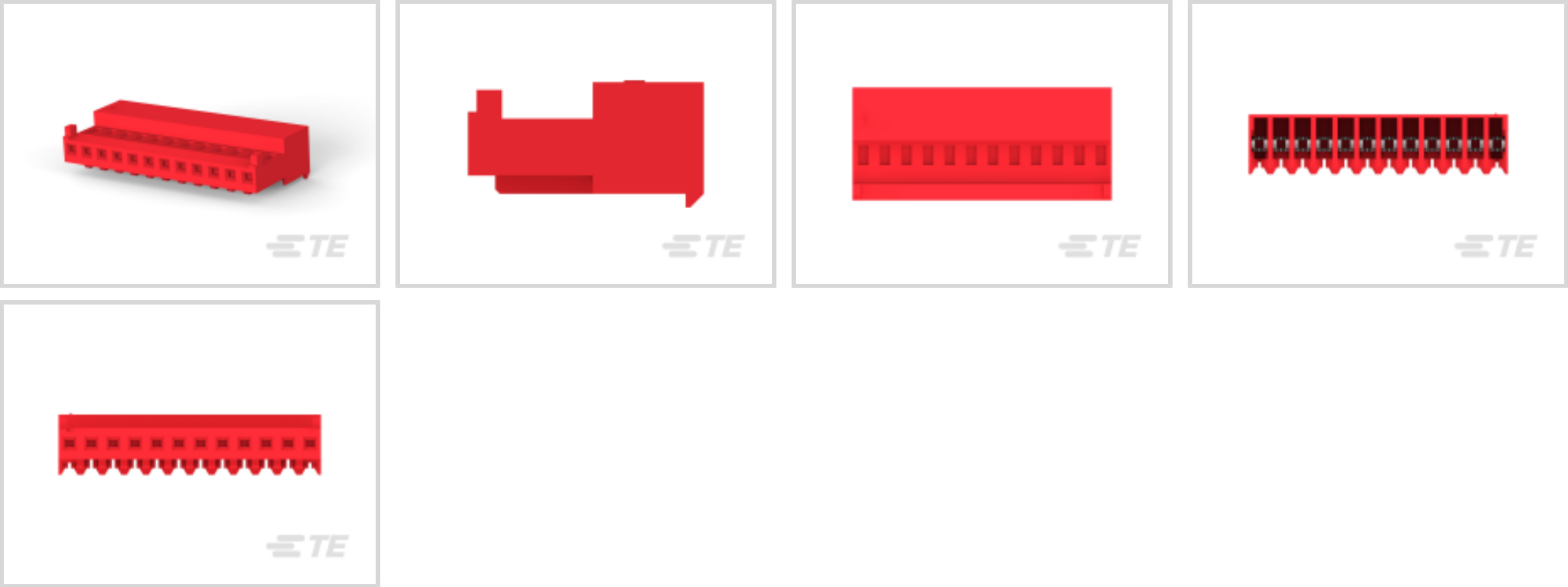
MTA 100

TE Internal #: 1-644042-2

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

[View on TE.com >](#)

Connectors > Rectangular Connectors > Standard Rectangular Connectors >  
Nylon Gold 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 Gold Plated Receptacle: 2.54 mm, with Mating Alignment, MTA 100 \(74\)](#)

Features

Product Type Features

|                                    |                    |
|------------------------------------|--------------------|
| Compatible With Discrete Wire Type | Stranded           |
| Connector Product Type             | Connector Assembly |
| Connector & Housing Type           | Receptacle         |
| Connector System                   | Wire-to-Board      |
| Insertion Force Type               | Normal             |
| 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           | Gold, Gold Flash over Palladium Nickel |
| 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 6/6      |
| Housing Color      | Red            |
| Centerline (Pitch) | 2.54 mm[.1 in] |

Dimensions

|                  |                         |
|------------------|-------------------------|
| Connector Height | 6.99 mm[.275 in]        |
| Product Width    | 13.21 mm[.52 in]        |
| Product Length   | 30.48 mm[1.2 in]        |
| Wire Size        | .3 – .4 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                                  | LR 7189    |
| UL Rating                                   | Recognized |
| Compatible With Agency/Standards Products   | CSA, UL    |
| Compatible With Approved Standards Products | 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 2024 (241)<br>Candidate List Declared Against: JUNE 2024 (241)<br>Does not contain REACH SVHC |
| Halogen Content                               | BFR/CFR/PVC Free, but Br/Cl >900 ppm in other sources.                                                                          |
| 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





|                                                                                                            |                                                                                            |                                                                                        |                                                                   |
|------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------|-------------------------------------------------------------------|
| <p>TE Part # CAT-104MTA-PVUNH<br/>PCB Header: Polyester, Vertical,<br/>Unshrouded, No Mating Alignment</p> | <p>TE Part # CAT-104MTA-PLSCC<br/>Polyester PCB Connector Covers: 2.54<br/>mm, MTA 100</p> | <p>TE Part # CAT-104MTA-NYLCC<br/>Nylon PCB Connector Covers: 2.54<br/>mm, MTA 100</p> | <p>TE Part # 58074-1<br/>MTA 50/100/156 MANUAL TOOL<br/>FRAME</p> |
| <p>TE Part # 58579-1<br/>MTA 100 MANUAL TOOL ASSEMBLY<br/>DISCRETE</p>                                     | <p>TE Part # 4-641213-2<br/>12P MTA100 HDR ASSY PO/ST LF</p>                               | <p>TE Part # 4-641216-2<br/>12P MTA100 HDR ASSY FL/RA LF</p>                           | <p>TE Part # 1-647116-2<br/>12P MTA100 HDR HT FL STR 30AU</p>     |
| <p>TE Part # 58246-3<br/>MTA 100 CRIMP HEAD PRODUCTION<br/>RBBN CABLE</p>                                  | <p>TE Part # 58246-2<br/>MTA 100 CRIMP HEAD PRODUCTION<br/>DISCRETE</p>                    |                                                                                        |                                                                   |

Also in the Series | MTA 100

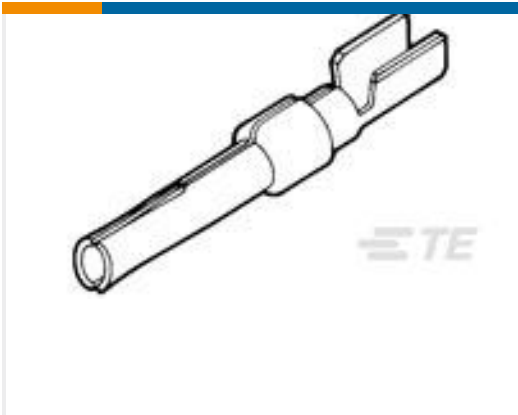
|                                           |                                             |                                                                 |                                            |
|-------------------------------------------|---------------------------------------------|-----------------------------------------------------------------|--------------------------------------------|
| <p>Connector Caps &amp; Covers(69)</p>    | <p>Connector Contacts(8)</p>                | <p>Connector Hardware(1)</p>                                    | <p>Insertion &amp; Extraction Tools(2)</p> |
| <p>PCB Headers &amp; Receptacles(441)</p> | <p>Standard Rectangular Connectors(495)</p> | <p>Wire-to-Board Connector Assemblies<br/>&amp; Housings(1)</p> |                                            |

Customers Also Bought

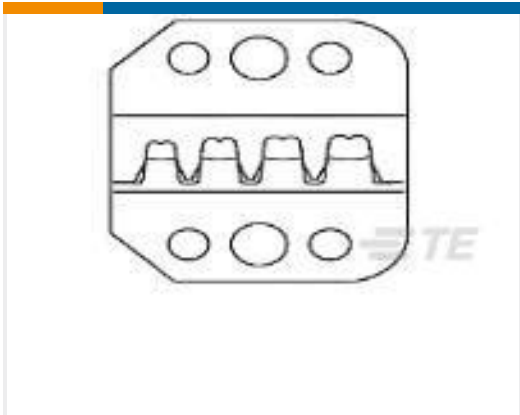




TE Part #3-644042-8  
08P MTA100 CONN ASSY LF



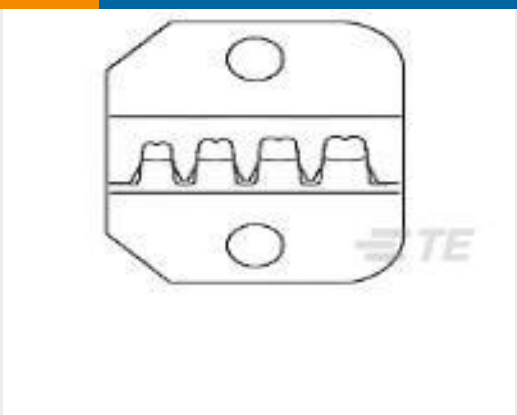
TE Part #205201-3  
20DF SOCKET CONTACT, PLATED



TE Part #90548-2  
PROCRIMPER DIE ASSY UNIV MNL



TE Part #91391-1  
SDE PEW 12MICRO MNL HAND TOOL



TE Part #58423-1  
DIE, RBY IS9252



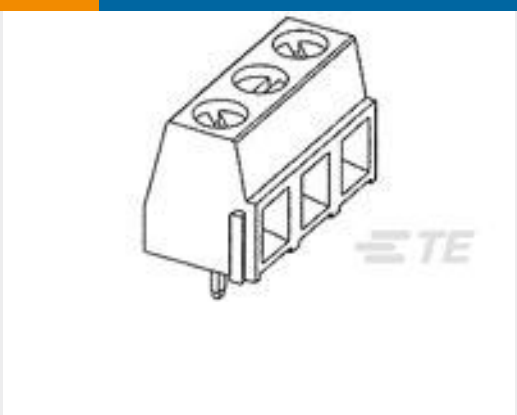
TE Part #52044-1  
TERMINAL R PG 2 5/16



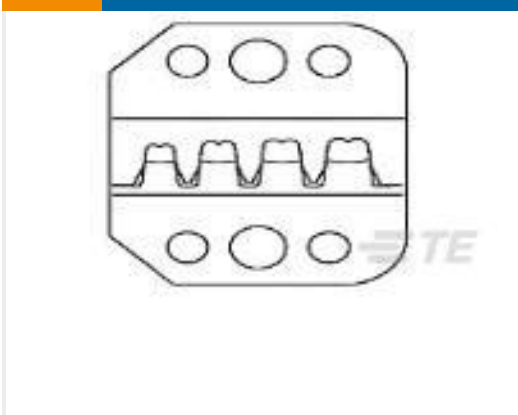
TE Part #350715-1  
06P UMNL PLUG HSG



TE Part #90548-1  
ASSY PRO-CRIMPER UNIV M-N-L



TE Part #1-282837-6  
TERMI-BLOK PCB MOUNT 16P.5



TE Part #58628-2  
PROCRMP DIESET 26-14 ULTRAFast

Documents

Product Drawings

12P MTA100 CONN ASSY 30AU

English

CAD Files

3D PDF

3D

Customer View Model

ENG\_CVM\_CVM\_1-644042-2\_J.2d\_dxf.zip

English

Customer View Model

ENG\_CVM\_CVM\_1-644042-2\_J.3d\_igs.zip

English

Customer View Model

ENG\_CVM\_CVM\_1-644042-2\_J.3d\_stp.zip

English

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

Product Specifications



Product Specification

English

Agency Approvals

Agency Approval Document

English