



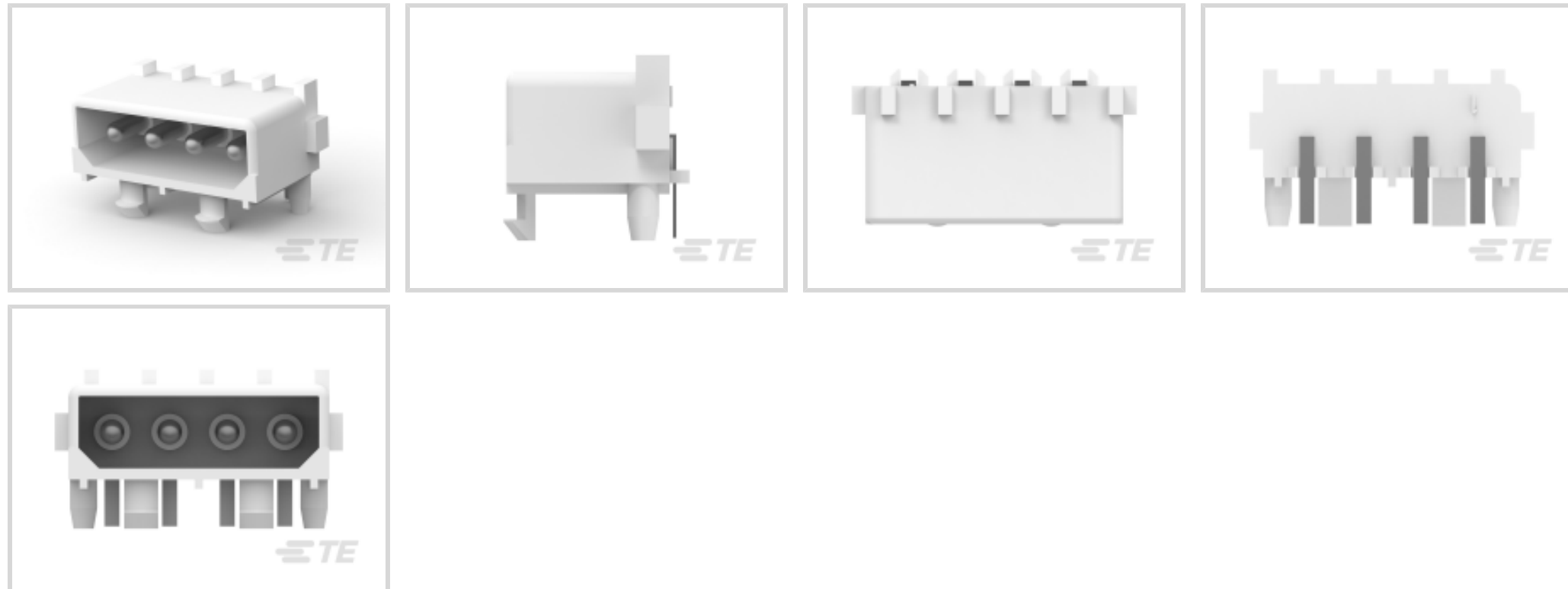
MATE-N-LOK | Commercial MATE-N-LOK

TE Internal #: 827001-2

PCB Mount Header, Right Angle, Wire-to-Board, 4 Position, 5.08 mm [.2 in] Centerline, Fully Shrouded, Pre-Tin, Commercial MATE-N-LOK

[View on TE.com >](#)

Connectors > PCB Connectors > PCB Headers & Receptacles



EU RoHS Compliance: **Compliant**

EU ELV Compliance: **Compliant**

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

PCB Mount Orientation: **Right Angle**

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

Features

Other

| | |
|--------------------|-----------|
| EU RoHS Compliance | Compliant |
| EU ELV Compliance | Compliant |

Product Type Features

| | |
|-----------------------------------|-----------------------|
| Mixed & Hybrid Header | No |
| Connector Shape | Rectangular |
| PCB Connector Assembly Type | PCB Mount Header |
| Connector System | Wire-to-Board |
| Header Type | Fully Shrouded |
| Sealable | No |
| Connector & Contact Terminates To | Printed Circuit Board |

Configuration Features

| | |
|----------------------------|---|
| Number of Columns | 4 |
| Number of Loaded Positions | 4 |
| Number of Power Positions | 4 |



| | |
|----------------------------------|--------------|
| Connector Contact Load Condition | Fully Loaded |
|----------------------------------|--------------|

| | |
|-----------------------|-------------|
| PCB Mount Orientation | Right Angle |
|-----------------------|-------------|

| | |
|---------------------|---|
| Number of Positions | 4 |
|---------------------|---|

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

Electrical Characteristics

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

Body Features

| | |
|-----------------------|---------|
| Primary Product Color | Natural |
|-----------------------|---------|

Contact Features

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

| | |
|---------------------|-------------------|
| Mating Pin Diameter | 2.18 mm [.086 in] |
|---------------------|-------------------|

| | |
|---|---|
| Contact Underplating Material Thickness | 1.27 – 1.79 μm [50 – 70 μin] |
|---|---|

| | |
|--------------|--------|
| Contact Size | 2.18mm |
|--------------|--------|

| | |
|--|---|
| Contact Mating Area Plating Material Thickness | 3.81 – 5.08 μm [150 – 200 μin] |
|--|---|

| | |
|---|---|
| PCB Contact Termination Area Plating Material Thickness | 3.81 – 5.08 μm [150 – 200 μin] |
|---|---|

| | |
|----------------------|-------|
| Contact Shape & Form | Round |
|----------------------|-------|

| | |
|----------------|--------|
| Contact Layout | Inline |
|----------------|--------|

| | |
|-----------------------|-----------------|
| Contact Base Material | Phosphor Bronze |
|-----------------------|-----------------|

| | |
|---|---------|
| PCB Contact Termination Area Plating Material | Pre-Tin |
|---|---------|

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

| | |
|--------------|-----|
| Contact Type | Pin |
|--------------|-----|

| | |
|------------------------------|------|
| Contact Current Rating (Max) | 12 A |
|------------------------------|------|

Termination Features

| | |
|--------------------------------|-----------------|
| Termination Post & Tail Length | 3.3 mm [.13 in] |
|--------------------------------|-----------------|

| | |
|---------------------------|-----------------------|
| Termination Method to PCB | Through Hole - Solder |
|---------------------------|-----------------------|

Mechanical Attachment

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

| | |
|------------------|---------|
| Mating Retention | Without |
|------------------|---------|

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

| | |
|--------------------------|-----------|
| PCB Mount Retention Type | Boardlock |
|--------------------------|-----------|

| | |
|--------------------------|----------------|
| PCB Mount Alignment Type | Locating Posts |
|--------------------------|----------------|

| | |
|---------------------|------|
| PCB Mount Retention | With |
|---------------------|------|



| | |
|-------------------------|-------------|
| PCB Mount Alignment | With |
| Connector Mounting Type | Board Mount |
| Mating Alignment | With |

Housing Features

| | |
|-----------------------|-----------------|
| Mating Entry Location | Side |
| Housing Material | Zytel |
| Centerline (Pitch) | 5.08 mm [.2 in] |

Dimensions

| | |
|-----------------------------|--------------------|
| Connector Width | 12.29 mm [.484 in] |
| PCB Thickness (Recommended) | 1.57 mm [.062 in] |
| Connector Height | 8.38 mm [.33 in] |
| Connector Length | 25.4 mm [1 in] |

Usage Conditions

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

Operation/Application

| | |
|---------------------|-------|
| Circuit Application | Power |
|---------------------|-------|

Industry Standards

| | |
|---|-------------------------------|
| Compatible With Agency/Standards Products | UL |
| UL Rating | Recognized |
| Compatible With Approved Standards Products | UL E28476 |
| Glow Wire Rating | Standard Part - Not Glow Wire |
| UL Flammability Rating | UL 94V-2 |

Packaging Features

| | |
|--------------------|------|
| Packaging Quantity | 1000 |
| Packaging Method | 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: JAN 2023
(233)

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

Hand solderable with tin/lead solder

Product Compliance Disclaimer

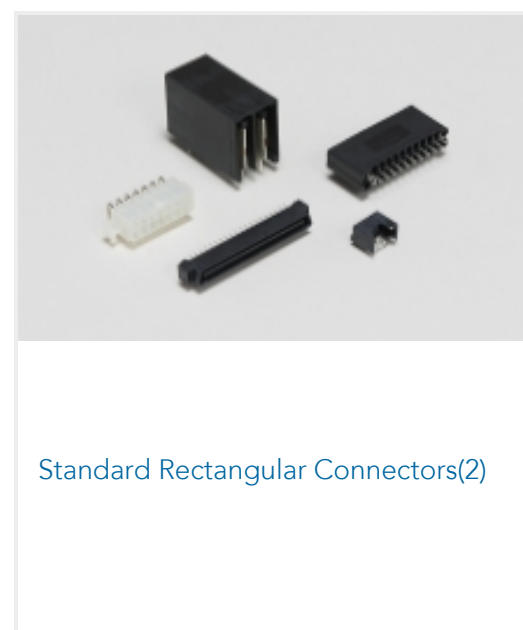
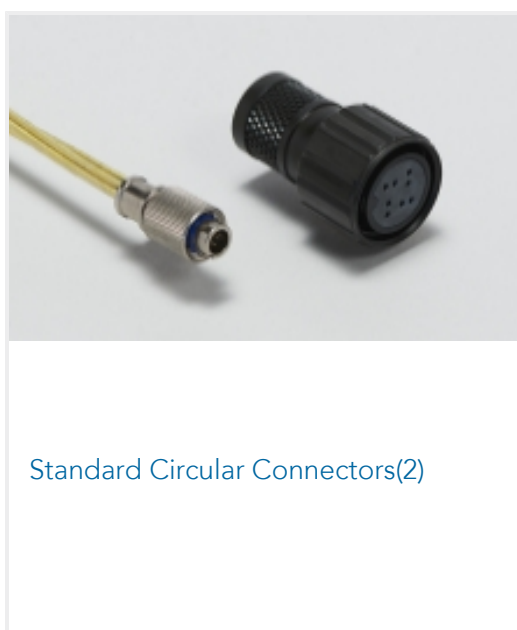
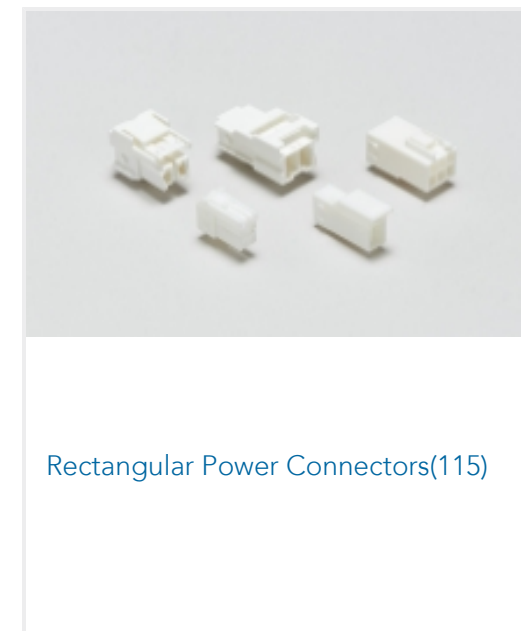
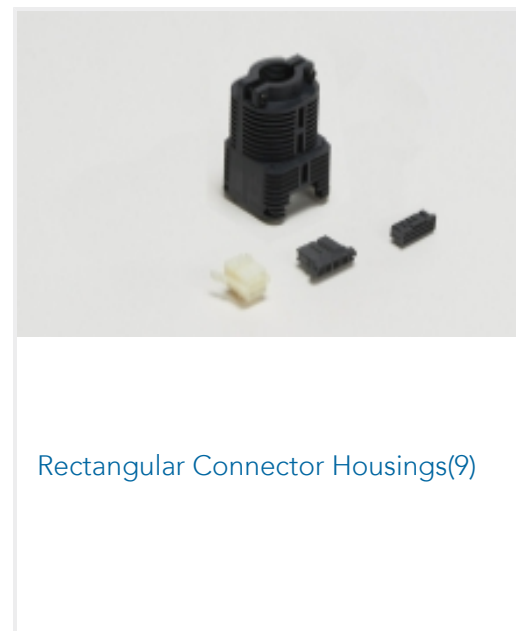
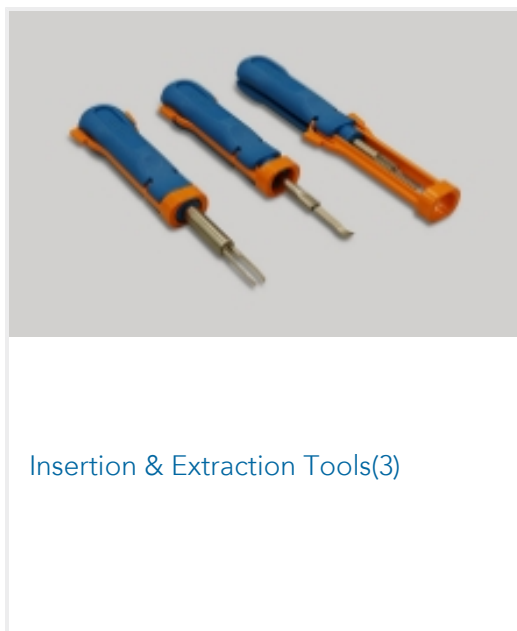
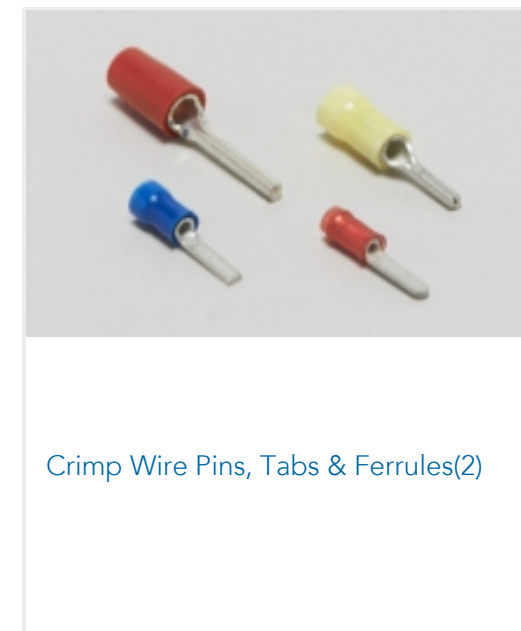
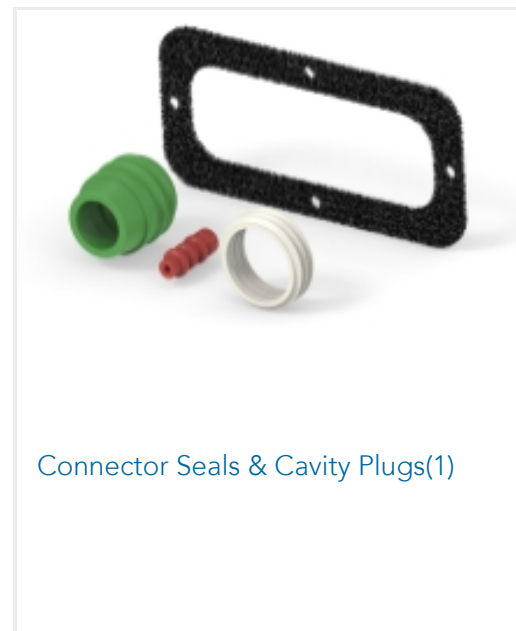
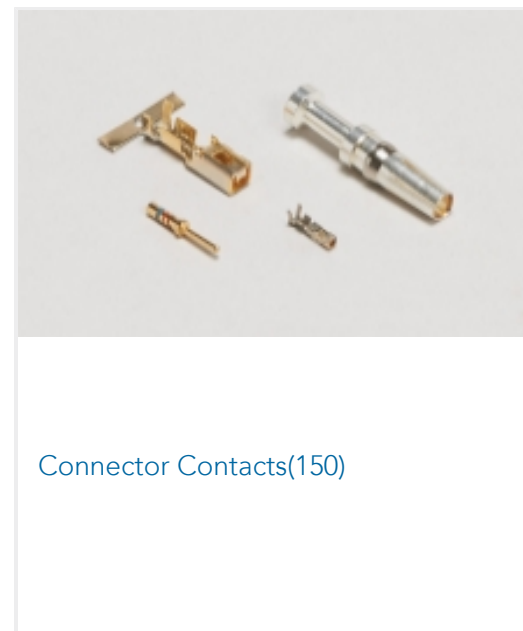
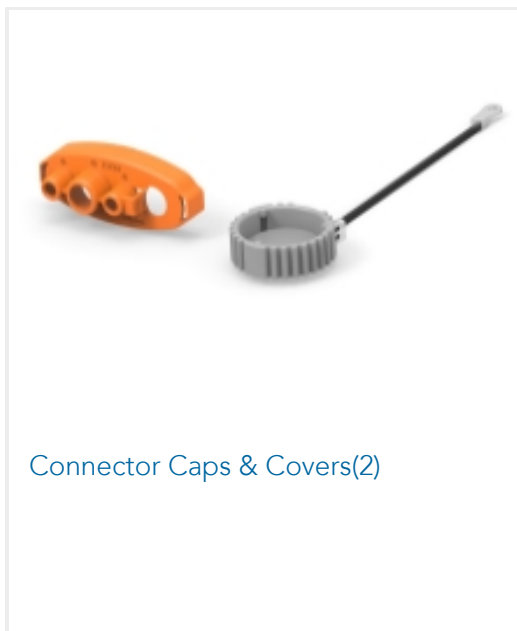
This information is provided based on reasonable inquiry of our suppliers and represents our current actual knowledge based on the information they provided. This information is subject to change. The part numbers that TE has identified as EU RoHS compliant have a maximum concentration of 0.1% by weight 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

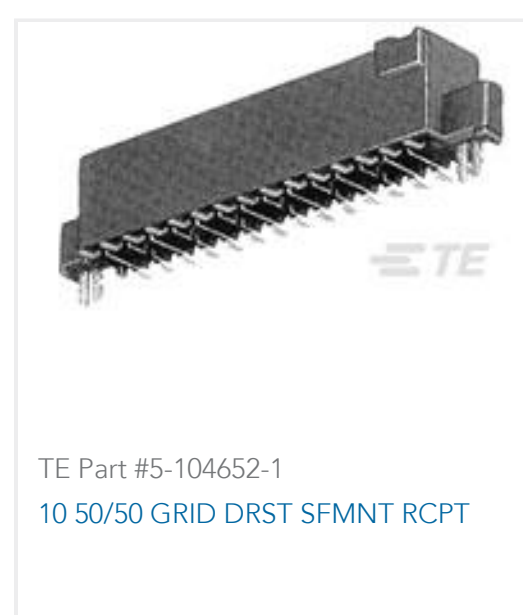




Also in the Series | **Commercial MATE-N-LOK**



Customers Also Bought





Documents

Product Drawings

4P MNL STIFTSOCKEL

English

CAD Files

3D PDF

English

Customer View Model

[ENG_CVM_827001-2_G.3d_igs.zip](#)

English

Customer View Model

[ENG_CVM_827001-2_G.3d_stp.zip](#)

English

Customer View Model

[ENG_CVM_827001-2_G.2d_dxf.zip](#)

English

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

Product Specifications

Application Specification

English

Application Specification

English