

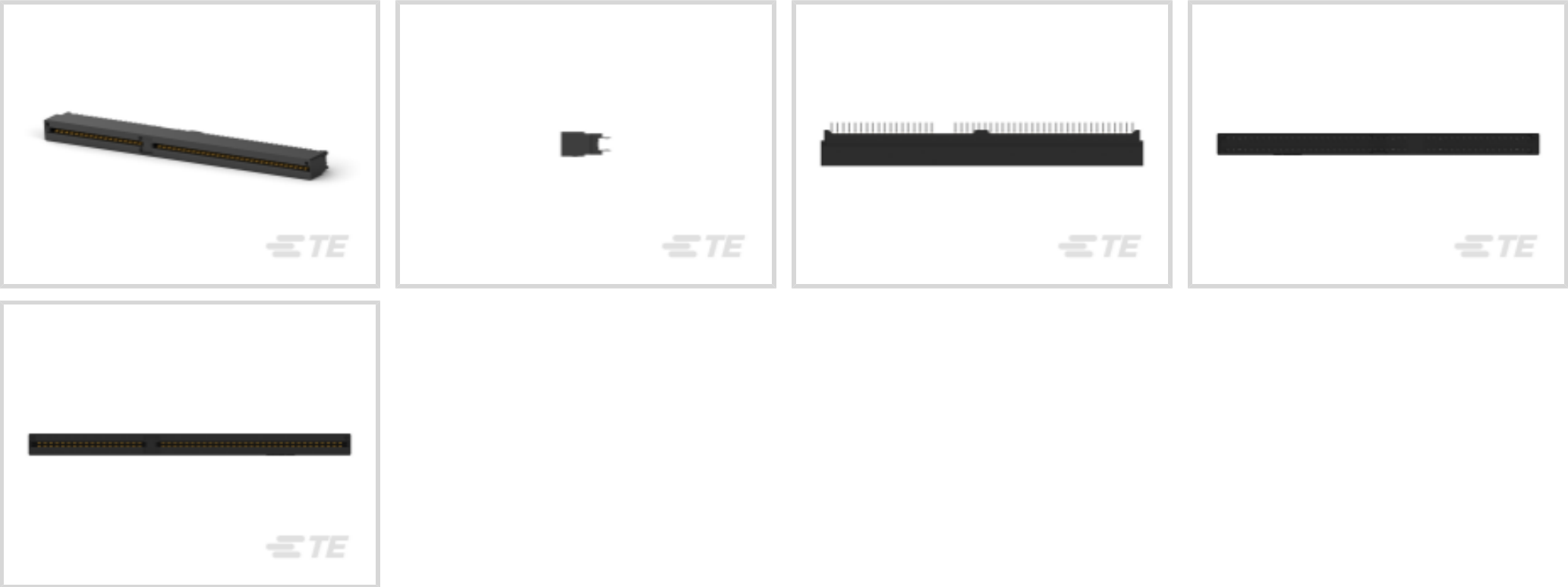


TE Internal #: 5176139-3

Board-to-Board, 98 Position, 2.54 mm [.1 in] Centerline, Power & Signal, 98 Power Positions, 0 Signal Positions, Card Edge Power Connectors

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Connectors > PCB Connectors > Card Edge Connectors > Card Edge Power Connectors



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

Number of Positions: **98**

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

Contact Current Rating (Max): **3 A**

Circuit Application: **Power & Signal**

Features

Product Type Features

|                                   |                       |
|-----------------------------------|-----------------------|
| Connector Mates With              | Printed Circuit Board |
| Connector & Housing Type          | Receptacle            |
| Connector & Contact Terminates To | Printed Circuit Board |
| Connector System                  | Board-to-Board        |

Configuration Features

|                                       |          |
|---------------------------------------|----------|
| Keying & Polarized Position Locations | 0        |
| Number of Sections                    | 2        |
| PCB Mount Orientation                 | Vertical |
| Number of Positions                   | 98       |
| Number of Power Positions             | 98       |
| Number of Signal Positions            | 0        |
| Number of Dual Positions              | 49       |

Electrical Characteristics

|                   |       |
|-------------------|-------|
| Operating Voltage | 400 V |
|-------------------|-------|



Body Features

|                       |       |
|-----------------------|-------|
| Primary Product Color | Black |
|-----------------------|-------|

Contact Features

|                                                         |                  |
|---------------------------------------------------------|------------------|
| PCB Contact Termination Area Plating Material Thickness | 2.54 μm[100 μin] |
| Contact Type                                            | Socket           |
| Contact Mating Area Plating Material Thickness          | .76 μm[30 μin]   |
| PCB Contact Termination Area Plating Material Finish    | Matte            |
| Contact Underplating Material                           | Nickel           |
| PCB Contact Termination Area Plating Material           | Tin              |
| Contact Base Material                                   | Phosphor Bronze  |
| Contact Current Rating (Max)                            | 3 A              |
| Contact Mating Area Plating Material                    | Gold             |

Termination Features

|                                |                       |
|--------------------------------|-----------------------|
| Termination Post & Tail Length | 3.18 mm[.125 in]      |
| Termination Method to PCB      | Through Hole - Solder |

Mechanical Attachment

|                          |             |
|--------------------------|-------------|
| Mating Alignment Type    | Keyed       |
| Mating Retention         | Without     |
| Mating Alignment         | With        |
| PCB Mount Alignment      | Without     |
| PCB Mount Retention      | With        |
| PCB Mount Retention Type | Solder Tail |
| Connector Mounting Type  | Board Mount |

Housing Features

|                    |                |
|--------------------|----------------|
| Housing Material   | Polyester GF   |
| Centerline (Pitch) | 2.54 mm[.1 in] |

Dimensions

|                          |                  |
|--------------------------|------------------|
| Card Slot Depth          | 7.49 mm[.295 in] |
| Connector Height         | 15.49 mm[.61 in] |
| Row-to-Row Spacing       | 4.85 mm[.191 in] |
| Power Contact Centerline | 2.54 mm[.1 in]   |

Usage Conditions

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



|                             |                           |
|-----------------------------|---------------------------|
| Operating Temperature Range | -55 – 85 °C[-67 – 185 °F] |
|-----------------------------|---------------------------|

Operation/Application

|                     |                |
|---------------------|----------------|
| Circuit Application | Power & Signal |
|---------------------|----------------|

Industry Standards

|                        |          |
|------------------------|----------|
| UL Flammability Rating | UL 94V-0 |
|------------------------|----------|

Packaging Features

|                    |     |
|--------------------|-----|
| Packaging Quantity | 72  |
| Packaging Method   | Box |

Other

|                            |   |
|----------------------------|---|
| Position Locations Omitted | 0 |
|----------------------------|---|

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                               | Not Low Halogen - contains Br or Cl > 900 ppm.                                                                                  |
| Solder Process Capability                     | Wave solder capable to 265°C                                                                                                    |

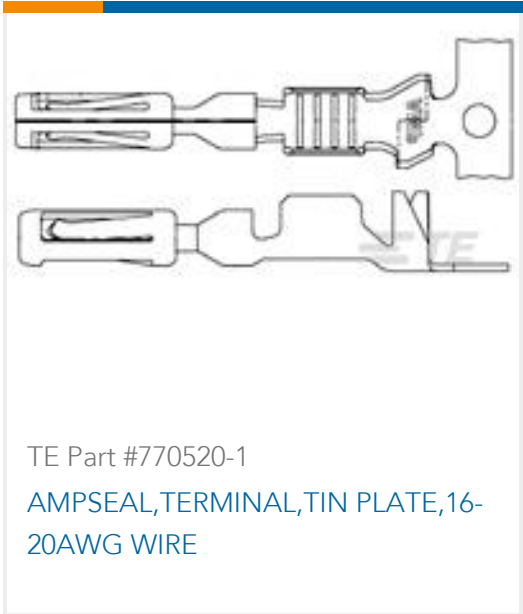
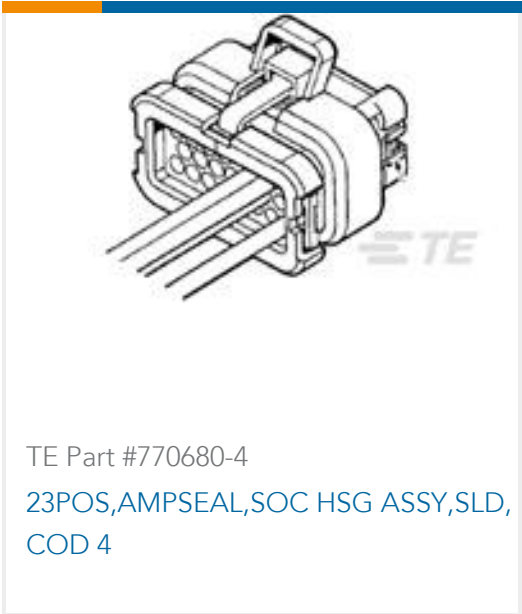
Product Compliance Disclaimer

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



Customers Also Bought



Documents

Product Drawings

CONN SEC II 49 POS 100C/L

English

CAD Files

Customer View Model

ENG\_CVM\_CVM\_5176139-3\_F.2d\_dxf.zip

English

3D PDF

3D

Customer View Model

ENG\_CVM\_CVM\_5176139-3\_F.3d\_igs.zip

English

Customer View Model

ENG\_CVM\_CVM\_5176139-3\_F.3d\_stp.zip

English

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Product Specifications

Application Specification

English