



AMP-LATCH

TE Internal #: 1-746610-7  
Wire-to-Board, 30 Position, 2.54 mm [.1 in] Centerline, Vertical,  
Through Hole - Solder, 2 Row, Plug, Standard Profile, Ribbon Cable  
Connectors

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Connectors > PCB Connectors > Wire-to-Board Connectors > FFC, FPC & Ribbon Connectors > Ribbon Cable Connectors



Connector System: **Wire-to-Board**  
Number of Positions: **30**  
Centerline (Pitch): **2.54 mm [.1 in]**  
PCB Mount Retention: **Without**  
PCB Mount Orientation: **Vertical**

Features

Product Type Features

|                                    |                                     |
|------------------------------------|-------------------------------------|
| Ribbon Cable Connector Header Type | Pin Header                          |
| Connector Product Type             | Connector Assembly                  |
| Connector System                   | Wire-to-Board                       |
| Connector & Housing Type           | Plug                                |
| Connector & Contact Terminates To  | Printed Circuit Board, Wire & Cable |

Configuration Features

|                       |          |
|-----------------------|----------|
| Number of Positions   | 30       |
| PCB Mount Orientation | Vertical |
| Number of Rows        | 2        |

Electrical Characteristics

|                       |         |
|-----------------------|---------|
| Insulation Resistance | 5000 MΩ |
| Operating Voltage     | 250 VAC |

Body Features

|             |         |
|-------------|---------|
| Daisy Chain | Without |
|-------------|---------|



|                       |          |
|-----------------------|----------|
| Primary Product Color | Black    |
| Connector Profile     | Standard |

Contact Features

|                                                         |                               |
|---------------------------------------------------------|-------------------------------|
| PCB Contact Termination Area Plating Material Thickness | 2.54 – 5.08 µm[100 – 200 µin] |
| Contact Layout                                          | Inline                        |
| Contact Type                                            | Pin                           |
| Wire Contact Termination Area Plating Thickness         | .127 µm[5 µin]                |
| Wire Contact Termination Area Plating Material          | Gold                          |
| Contact Mating Area Plating Material Thickness          | 2.54 µm[100 µin]              |
| PCB Contact Termination Area Plating Material           | Tin                           |
| Contact Base Material                                   | Phosphor Bronze               |
| Contact Current Rating (Max)                            | 1 A                           |

Termination Features

|                                               |                               |
|-----------------------------------------------|-------------------------------|
| Rectangular Termination Post & Tail Thickness | .32 mm[.013 in]               |
| Rectangular Termination Post & Tail Width     | .5 mm[.02 in]                 |
| Termination Post & Tail Length                | 3.96 mm[.156 in]              |
| Termination Method to Wire & Cable            | Insulation Displacement (IDC) |
| Termination Method to PCB                     | Through Hole - Solder         |

Mechanical Attachment

|                         |              |
|-------------------------|--------------|
| Mating Alignment        | With         |
| PCB Mount Alignment     | Without      |
| Panel Mount Feature     | Without      |
| PCB Mount Retention     | Without      |
| Mating Alignment Type   | Polarization |
| Mating Retention        | Without      |
| Connector Mounting Type | Board Mount  |

Housing Features

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

Dimensions

|                  |                   |
|------------------|-------------------|
| Connector Length | 42.67 mm[1.68 in] |
| Connector Height | 6.43 mm[.253 in]  |



|                                      |                               |
|--------------------------------------|-------------------------------|
| Connector Width                      | 7.06 mm[.278 in]              |
| Wire Size                            | .051 – .15 mm <sup>2</sup>    |
| PCB Thickness (Recommended)          | 3.18 mm[.125 in]              |
| Compatible Insulation Diameter Range | .81 – 1.07 mm[.032 – .042 in] |
| Row-to-Row Spacing                   | 2 mm[.1 in]                   |

Usage Conditions

|                             |                            |
|-----------------------------|----------------------------|
| Operating Temperature Range | -65 – 105 °C[-85 – 221 °F] |
|-----------------------------|----------------------------|

Operation/Application

|                        |               |
|------------------------|---------------|
| Solder Process Feature | Solder Dipped |
| Circuit Application    | Signal        |

Industry Standards

|                                             |                       |
|---------------------------------------------|-----------------------|
| UL Rating                                   | Recognized            |
| Compatible With Agency/Standards Products   | CSA, UL               |
| Compatible With Approved Standards Products | CSA LR7189, UL E28476 |
| UL Flammability Rating                      | UL 94V-0              |

Packaging Features

|                    |                  |
|--------------------|------------------|
| Packaging Quantity | 50               |
| Packaging Method   | Box & Tube, Tube |

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>

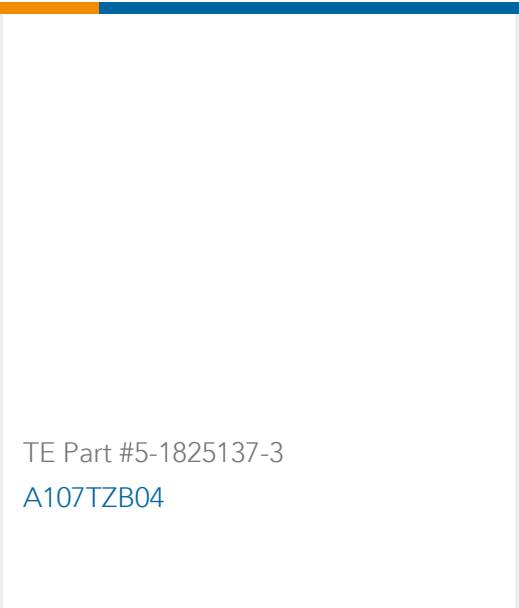
Compatible Parts

TE Part # 768340-1  
UNIV HAND TOOL KIT AMPLATCH

Customers Also Bought

TE Part #HDC14-6  
DUST CAP, 6P, PLG, GRY, HD10

TE Part #323008  
PIDG R 22-16 COMM 22-18 MIL 6TE Part #487406-4  
FFC RCPT CONT SP 100SNPB RLTE Part #1-1825139-7  
A205SYCQ04TE Part #1-480277-0  
09P CMNL CAP HSG P/M NATLTE Part #5-1625892-3  
3W SM M/OX 5% 47KTE Part #5-1625892-9  
3W SM M/OX 5% 56KTE Part #1241846-1  
TAB A 1.6x0.6 CONTACT CS SRC Sn



Documents

Product Drawings

30 DIP PLUG, 100CL, LEAD FREE

English

CAD Files

3D PDF

3D

Customer View Model

ENG\_CVM\_CVM\_1-746610-7\_F.2d\_dxf.zip

English

Customer View Model

ENG\_CVM\_CVM\_1-746610-7\_F.3d\_igs.zip

English

Customer View Model

ENG\_CVM\_CVM\_1-746610-7\_F.3d\_stp.zip

English

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

Datasheets & Catalog Pages

Ribbon Cable Interconnect Solutions

English

Product Specifications

Application Specification

English

Instruction Sheets

Instruction Sheet (U.S.)

English

Agency Approvals

Agency Approval Document

English