



AMP-LATCH

TE Internal #: 1-1761607-5  
Ribbon Cable Connectors, Wire-to-Board, 50 Position, 2.54 mm [.1 in] Centerline, Right Angle, Through Hole - Solder, 2 Row, Plug, Low Profile

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Connector System: **Wire-to-Board**  
Number of Positions: **50**  
Centerline (Pitch): **2.54 mm [.1 in]**  
PCB Mount Retention: **Without**  
PCB Mount Orientation: **Right Angle**

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 |

Configuration Features

|                       |             |
|-----------------------|-------------|
| Number of Positions   | 50          |
| PCB Mount Orientation | Right Angle |
| Number of Rows        | 2           |

Electrical Characteristics

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

Body Features

|             |      |
|-------------|------|
| Daisy Chain | With |
|-------------|------|



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

Contact Features

|   |                  |
|---|------------------|
| PCB Contact Termination Area Plating Material Thickness | 2.54 μm[100 μin] |
| Mating Pin Diameter                                     | .64 mm[.025 in]  |
| Contact Type  | Pin              |
| Contact Mating Area Plating Material Thickness          | .762 μm[30 μin]  |
| Contact Mating Area Plating Material                    | Gold Flash       |
| Contact Shape & Form                                    | Square           |
| Contact Underplating Material                           | Nickel           |
| PCB Contact Termination Area Plating Material           | Tin              |
| Contact Base Material                                   | Phosphor Bronze  |
| Contact Current Rating (Max)                            | 1 A              |

Termination Features

|   |                       |
|---|-----------------------|
| Round Termination Post & Tail Diameter      | .64 mm[.025 in]       |
| Termination Post & Tail Length              | 2.6 mm[.102 in]       |
| Termination Method to Printed Circuit Board | Through Hole - Solder |

Mechanical Attachment

|                         |                |
|-------------------------|----------------|
| Mating Alignment        | With           |
| PCB Mount Alignment     | Without        |
| Panel Mount Feature     | Without        |
| PCB Mount Retention     | Without        |
| Mating Alignment Type   | Center         |
| Mating Retention        | With           |
| Mating Retention Type   | Ejection Latch |
| Connector Mounting Type | Board Mount    |

Housing Features

|                       |                |
|-----------------------|----------------|
| Mating Entry Location | Top            |
| Housing Material      | PBT            |
| Centerline (Pitch)    | 2.54 mm[.1 in] |

Dimensions

|                        |                  |
|------------------------|------------------|
| Shrouded End Dimension | 3.76 mm[.148 in] |
|------------------------|------------------|



|                    |                  |
|--------------------|------------------|
| Connector Length   | 71.12 mm[2.8 in] |
| Connector Height   | 9.19 mm[.36 in]  |
| Row-to-Row Spacing | 2.54 mm[.1 in]   |

Usage Conditions

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

Operation/Application

|                     |        |
|---------------------|--------|
| Circuit Application | Signal |
|---------------------|--------|

Industry Standards

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

Packaging Features

|                    |      |
|--------------------|------|
| Packaging Quantity | 7    |
| Packaging Method   | Tube |

Other

|                                 |                                   |
|---------------------------------|-----------------------------------|
| Wire-to-Board Connector Comment | For Use With AMP-Latch Receptacle |
|---------------------------------|-----------------------------------|

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                               | 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

|   |   |   |   |
|---|---|---|---|
| <br>TE Part # 499252-4<br>050 STRAIN RELIEF A-L RCPT           | <br>TE Part # 8-1437021-1<br>609-5031HD=FSKT IDC S 50 SR       | <br>TE Part # 1-1658622-0<br>50 NOVO MIL/CTR 30DP,LEAD FREE    | <br>TE Part # 1-1658620-0<br>50 NOVO MIL 15DP, LEAD FREE       |
| <br>TE Part # 1-1658621-0<br>50 NOVO MIL/CTR 15DP,LEAD FREE  | <br>TE Part # 1-1658623-0<br>50 NOVO MIL 30DP, LEAD FREE     | <br>TE Part # 2-1658526-3<br>609-5030LF FEM SOCKET,LEAD FREE | <br>TE Part # 2-1658526-4<br>609-5041LF FEM SOCKET,LEAD FREE |
| <br>TE Part # 1-1658527-4<br>622-5030LF FEM SOCKET,LEAD FREE | <br>TE Part # 1-1658527-5<br>622-5041LF FEM SOCKET,LEAD FREE | <br>TE Part # 1658528-8<br>636-5041LF FEM SOCKET,LEAD FREE   | <br>TE Part # 2-1658526-2<br>609-5001MLF FEM SCKT,LEAD FREE  |
| <br>TE Part # 2-1658528-0<br>636-5030LF=FEM SKT BLADE POL 1  | <br>TE Part # 1-1437025-2<br>622-5031=FSKT IDC S 50 SR       | <br>TE Part # 6-1437028-8<br>636-5031=FEM SOKT 15 MICRO      |   |

Customers Also Bought



|  |  |   |  |
|--|--|---|--|
| <p>TE Part #5747238-6<br/>25 MSFL PLUG RA 318 (SL,FM)</p>      | <p>TE Part #1-2199299-2<br/>28P,DIP SKT,600 CL,LDR,PB FREE</p> | <p>TE Part #1734261-8<br/>1.25 WTB, HDR, SMT, RA, 8P</p>      | <p>TE Part #650473-5<br/>096 EURO TYPE C PIN ST ASSY</p>       |
| <p>TE Part #5796055-1<br/>68 CHAMP R/A ASSY,LC</p>             | <p>TE Part #1-2199298-8<br/>24P,DIP SKT,300 CL,LDR,PB FREE</p> | <p>TE Part #7-1879208-3<br/>CPF 0402 10K 0.1% 25PPM 1K RL</p> | <p>TE Part #1-1879216-8<br/>CPF 0402 76K8 0.1% 25PPM 1K RL</p> |
| <p>TE Part #1-1879417-4<br/>CPF 0603 620K 0.1% 25PPM 1K RL</p> | <p>TE Part #4-2176341-1<br/>CRGCQ 0805 22K 1%</p>              |   |  |

Documents

Product Drawings

IDC LOW PRO HDR 50P RA LG LAT BLK

English

CAD Files

3D PDF

3D

Customer View Model

ENG\_CVM\_CVM\_1-1761607-5\_D.2d\_dxf.zip

English

Customer View Model

ENG\_CVM\_CVM\_1-1761607-5\_D.3d\_igs.zip

English

Customer View Model

ENG\_CVM\_CVM\_1-1761607-5\_D.3d\_stp.zip

English

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Datasheets & Catalog Pages



[Ribbon Cable Interconnect Solutions](#)

English

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[Product Specifications](#)

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[TE Material Declaration](#)

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