



AMP-LATCH

TE Internal #: 1-111494-8  
Ribbon Cable Connectors, Wire-to-Wire, 20 Position, 2.54 mm [.1 in] Centerline, Insulation Displacement (IDC), 2 Row, Plug, Low Profile

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



Connector System: **Wire-to-Wire**  
Number of Positions: **20**  
Centerline (Pitch): **2.54 mm [.1 in]**  
PCB Mount Retention: **Without**  
Termination Method to Wire & Cable: **Insulation Displacement (IDC)**

Features

Product Type Features

|                                    |                    |
|------------------------------------|--------------------|
| Connector Type                     | Connector Assembly |
| Ribbon Cable Connector Header Type | Shrouded           |
| Connector Product Type             | Connector Assembly |
| Connector System                   | Wire-to-Wire       |
| Connector & Housing Type           | Plug               |
| Connector & Contact Terminates To  | Wire & Cable       |

Configuration Features

|                     |    |
|---------------------|----|
| Number of Positions | 20 |
| Number of Rows      | 2  |

Electrical Characteristics

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

Body Features



|                   |         |
|-------------------|---------|
| Daisy Chain       | Without |
| Connector Profile | Low     |

Contact Features

|                                                      |                           |
|------------------------------------------------------|---------------------------|
| Contact Mating Area Length                           | 6.1 mm[.24 in]            |
| Mating Square Post Dimension                         | .64 mm[.025 in]           |
| Contact Type                                         | Pin                       |
| Wire Contact Termination Area Plating Thickness      | 2.54 µm[100 µin]          |
| Wire Contact Termination Area Plating Material       | Tin                       |
| Contact Mating Area Plating Material Thickness       | .76 µm[29.92 µin][30 µin] |
| PCB Contact Termination Area Plating Material Finish | Matte                     |
| Contact Shape & Form                                 | Tuning Fork               |
| PCB Contact Termination Area Plating Material        | Tin                       |
| Contact Base Material                                | Phosphor Bronze           |
| Contact Current Rating (Max)                         | 1 A                       |

Termination Features

|                                    |                               |
|------------------------------------|-------------------------------|
| Termination Post & Tail Length     | 3.3 mm[.13 in]                |
| Termination Method to Wire & Cable | Insulation Displacement (IDC) |

Mechanical Attachment

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

Housing Features

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

Dimensions

|                        |                 |
|------------------------|-----------------|
| Shrouded End Dimension | 3.81 mm[.15 in] |
|------------------------|-----------------|



|                                        |                              |
|----------------------------------------|------------------------------|
| Connector Length                       | 50.19 mm[1.976 in]           |
| Connector Height                       | 23.75 mm[.935 in]            |
| Connector Width                        | 8.38 mm[.33 in]              |
| Wire Size                              | .08 – .15 mm <sup>2</sup>    |
| Accepts Wire Insulation Diameter Range | .81 – .97 mm[.032 – .038 in] |
| Row-to-Row Spacing                     | 2 mm[.1 in]                  |

Usage Conditions

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

Operation/Application

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

Industry Standards

|                        |            |
|------------------------|------------|
| CSA File Number        | LR 7189    |
| UL Rating              | Recognized |
| Agency/Standard        | CSA, UL    |
| UL File Number         | E28476     |
| UL Flammability Rating | UL 94V-0   |

Packaging Features

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

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 2022 (224)<br>Candidate List Declared Against: JUNE 2022 (224)<br>Does not contain REACH SVHC |
| Halogen Content                               | Not Low Halogen - contains Br or Cl > 900 ppm.                                                                                  |
| 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

TE Part # 1658620-4  
20 NOVO MIL 15DP, LEAD FREE

TE Part # 1-1658526-2  
609-2030LF FEM SOCKT,LEAD FREE

TE Part # 1658621-4  
20 NOVO MIL/CTR 15DP,LEAD FREE

TE Part # 1658622-4  
20 NOVO MIL/CTR 30DP,LEAD FREE

TE Part # 1658623-4  
20 NOVO MIL 30DP, LEAD FREE

TE Part # 1658624-4  
20 NOVO DUAL 30DP, LEAD FREE

TE Part # 2-1658527-3  
622-2030LF=FSKT IDC S 20 30AU

TE Part # 1-1658528-5  
636-2030LF=FEM SKT BLADE POL 1

TE Part # 3-1658526-0  
609-2000MLF=FSKT IDC S 20 30AU

Documents

Product Drawings  
020 UNIV I/O 30DP SLOT LTCH  
English

CAD Files  
3D PDF  
3D



Customer View Model

[ENG\\_CVM\\_CVM\\_1-111494-8\\_K.2d\\_dxf.zip](#)

English

Customer View Model

[ENG\\_CVM\\_CVM\\_1-111494-8\\_K.3d\\_igs.zip](#)

English

Customer View Model

[ENG\\_CVM\\_CVM\\_1-111494-8\\_K.3d\\_stp.zip](#)

English

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Datasheets & Catalog Pages

[Ribbon Cable Interconnect Solutions](#)

English

Product Specifications

[Application Specification](#)

English

Product Environmental Compliance

[Product Compliance](#)

English

[Product Compliance](#)

English

Instruction Sheets

[Removal Tool for Universal Header Latches](#)

English

[Instruction Sheet \(U.S.\)](#)

English

Agency Approvals

[Agency Approval Document](#)

English