

1-746611-0 ✓ ACTIVE



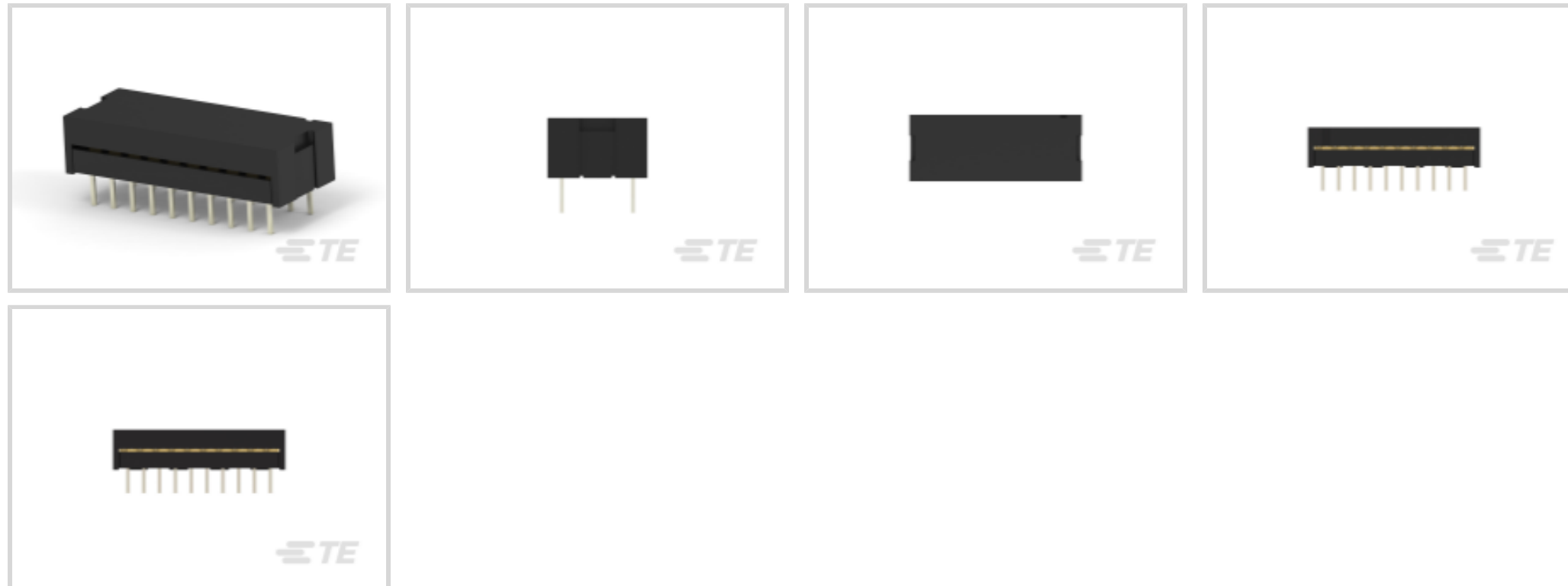
## AMP-LATCH

TE Internal #: 1-746611-0

Wire-to-Board, 20 Position, 2.54 mm [.1 in] Centerline, Vertical,  
Through Hole - Solder, 2 Row, Plug, Standard Profile, Ribbon Cable  
Connectors

[View on TE.com >](#)

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



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

Number of Positions: **20**

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

PCB Mount Retention: **Without**

PCB Mount Orientation: **Vertical**

## Features

### Product Type Features

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

### Configuration Features

Number of Positions	20
PCB Mount Orientation	Vertical
Number of Rows	2

### Housing Features

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

### Mechanical Attachment

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

### Termination Features

Termination Method to PCB	Through Hole - Solder
Rectangular Termination Post & Tail Width	.5 mm[.02 in]
Rectangular Termination Post & Tail Thickness	.32 mm[.013 in]
Termination Method to Wire & Cable	Insulation Displacement (IDC)
Termination Post & Tail Length	3.94 mm[.155 in]

### Dimensions

Row-to-Row Spacing	2 mm[.3 in]
Compatible Insulation Diameter Range	.81 – 1.07 mm[.032 – .042 in]
Connector Width	10.67 mm[.42 in]
Wire Size	30 – 26 AWG
PCB Thickness (Recommended)	3.18 mm[.125 in]
Connector Height	6.43 mm[.253 in]
Connector Length	27.64 mm[1.088 in]

### Body Features

Connector Profile	Standard
Daisy Chain	Without
Primary Product Color	Black

### Contact Features

Contact Current Rating (Max)	1 A
Contact Mating Area Plating Material Thickness	.76 $\mu$ m[29.92 $\mu$ in]
Wire Contact Termination Area Plating Material	Gold
PCB Contact Termination Area Plating Material Thickness	.762 $\mu$ m[30 $\mu$ in]
Contact Layout	Inline
Contact Base Material	Phosphor Bronze
PCB Contact Termination Area Plating Material	Gold

Wire Contact Termination Area Plating Thickness	.127 $\mu\text{m}$ [5 $\mu\text{in}$ ]
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Contact Type	Pin
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### Operation/Application

Circuit Application	Signal
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Solder Process Feature	Solder Dipped
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### Usage Conditions

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

EU RoHS Compliance	Compliant
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EU ELV Compliance	Compliant
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### Electrical Characteristics

Operating Voltage	250 VAC
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Insulation Resistance	5000 M $\Omega$
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### Industry Standards

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

Packaging Quantity	120
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Packaging Method	Tray, Box & Tray
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### Product Compliance

For compliance documentation, visit the product page on [TE.com](https://www.te.com)>

EU RoHS Directive 2011/65/EU	Compliant
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EU ELV Directive 2000/53/EC	Compliant
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China RoHS 2 Directive MIIT Order No 32, 2016	No Restricted Materials Above Threshold
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EU REACH Regulation (EC) No. 1907/2006	Current ECHA Candidate List: JUNE 2024 (241) Candidate List Declared Against: JUNE 2024 (241) Does not contain REACH SVHC
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Halogen Content	Not Low Halogen - contains Br or Cl > 900 ppm.
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## Solder Process Capability

## Wave solder capable to 265°C

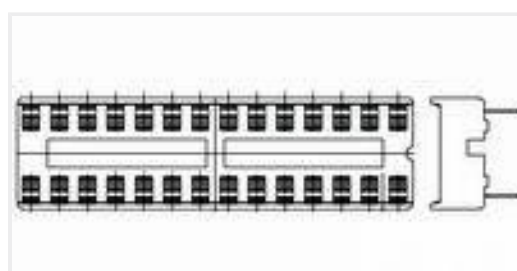
## Product Compliance Disclaimer

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>

## Customers Also Bought



TE Part #3-338311-2  
25POS.HD20 PLG ASSY



TE Part #1-2199298-2  
8P,DIP SKT,300 CL,LDR,PB FREE



TE Part #499252-1  
040 STRAIN RELIEF A-L RCPT



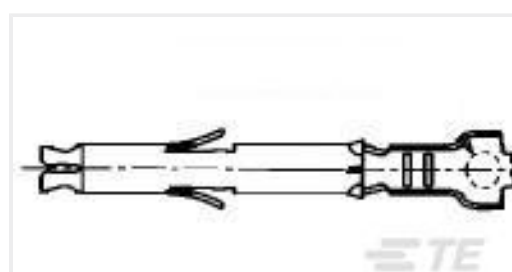
TE Part #1658614-1  
37 POS HDF RCPT, AP, LEAD FREE



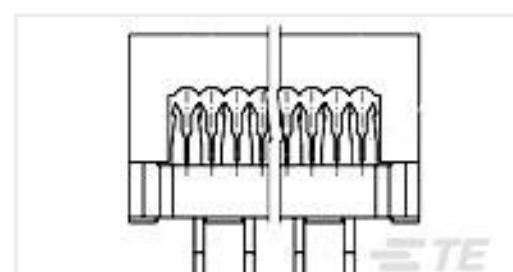
TE Part #1658622-9  
40 NOVO MIL/CTR 30DP,LEAD FREE



TE Part #350705-1  
UMNL SPLIT PIN 20-14 PTPBR L/P



TE Part #170366-1  
MINI UNIVERSAL M-N-L SOCKET LP



TE Part #5746613-1  
08 DIP PLUG CONN-W/COVER



TE Part #1658615-4  
IDC D-Sub: Plug Assembly, Low Profile, Signal, 2.77 mm

## Documents

## Product Drawings

20 DIP PLUG CONN-W/COVER

English



### CAD Files

#### 3D PDF

3D

#### Customer View Model

[ENG\\_CVM\\_CVM\\_1-746611-0\\_G.2d\\_dxf.zip](#)

English

#### Customer View Model

[ENG\\_CVM\\_CVM\\_1-746611-0\\_G.3d\\_igs.zip](#)

English

#### Customer View Model

[ENG\\_CVM\\_CVM\\_1-746611-0\\_G.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

#### UL Report

English