

1658624-5 ✓ ACTIVE

[AMP-LATCH](#) | [AMP-LATCH - NOVO](#)

TE Internal #: 1658624-5

Ribbon Cable Connectors, Wire-to-Board, 24 Position, 2.54 mm [.1 in] Centerline, Vertical, Through Hole - Solder, AMP-LATCH - NOVO

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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: **24**

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

PCB Mount Retention: **Without**

PCB Mount Orientation: **Vertical**

## Features

### Product Type Features

Connector Type	Connector Assembly
Ribbon Cable Connector Header Type	Pin Header
Connector Product Type	Connector Assembly
Connector System	Wire-to-Board
Connector & Housing Type	Receptacle
Connector & Contact Terminates To	Wire & Cable

### Configuration Features

Compatible With Wire & Cable Type	Ribbon Cable
Number of Positions	24
PCB Mount Orientation	Vertical
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

Mating Square Post Dimension	.64 mm[.025 in]
Mating Pin Diameter	.64 mm[.025 in]
Contact Type	Socket
Wire Contact Termination Area Plating Thickness	1.27 $\mu$ m[50 $\mu$ in]
Wire Contact Termination Area Plating Material	Tin
Contact Mating Area Plating Material Thickness	.76 $\mu$ m[29.92 $\mu$ in]
Contact Mating Area Plating Material	Gold, Gold Flash over Palladium Nickel
Contact Shape & Form	Tuning Fork
Contact Underplating Material	Nickel
Contact Base Material	Phosphor Bronze
Contact Current Rating (Max)	1 A

### Termination Features

Termination Method to Printed Circuit Board	Through Hole - Solder
Termination Method to Wire & Cable	Insulation Displacement (IDC)

### 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	Cable Mount (Free-Hanging)

### Housing Features

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

### Dimensions

Connector Length	35.05 mm[1.38 in]
Connector Height	15.16 mm[.597 in]
Connector Width	7.49 mm[.295 in]
Wire Size	.08 – .15 mm <sup>2</sup>



Accepts Wire Insulation Diameter Range	.79 – .94 mm [.031 – .037 in]
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Row-to-Row Spacing	2.54 mm [.1 in]
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### Usage Conditions

Operating Temperature Range	-65 – 105 °C [-85 – 221 °F]
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### Operation/Application

Circuit Application	Signal
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### Industry Standards

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

Packaging Quantity	50
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Packaging Method	Box & Tube, Tube
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### Product Compliance

[For compliance documentation, visit the product page on 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 2022 (224) Candidate List Declared Against: JUNE 2022 (224) Does not contain REACH SVHC
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Halogen Content	Not Low Halogen - contains Br or Cl > 900 ppm.
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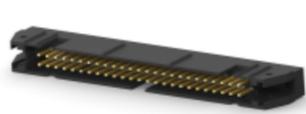
Solder Process Capability	Not applicable for solder process capability
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#### Product Compliance Disclaimer

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 # CAT-AM74-UN384H  
AMP-LATCH UNIVERSAL HEADERS



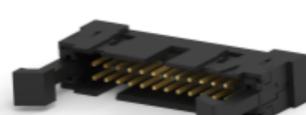
TE Part # 1-499252-0  
024 STRAIN RELIEF A-L RCPT



TE Part # 5104338-5  
A/L LOW PRO HDR 24P VERT HT



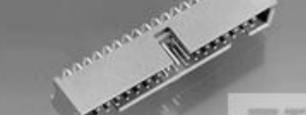
TE Part # 1-5103308-3  
A/L LOW PRO HDR 24P VERT BLACK



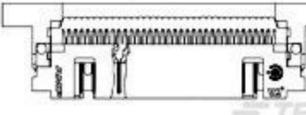
TE Part # 1-111504-8  
024 UNIV I/O 30DP NO EARS LTCH



TE Part # 1888208-5  
A/L LOW PRO HDR 24P VERT HT /KINK SPC PKG



TE Part # 5104340-5  
A/L LOW PRO HDR 24P RA HT



TE Part # 5111448-5  
024 UNIV I/O 30DP SLOT



TE Part # 1-111492-9  
024 UNIV I/O 30DP NO EARS LTCH



TE Part # 768340-1  
UNIV HAND TOOL KIT AMPLATCH

## Also in the Series | AMP-LATCH - NOVO



Ribbon Cable Connectors(46)



Ribbon Connector Accessories(10)

## Documents

[Product Drawings](#)



## 024 NOVO DUAL 30DP FT

English

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### CAD Files

Customer View Model

[ENG\\_CVM\\_CVM\\_1658624-5\\_D.2d\\_dxf.zip](#)

English

### 3D PDF

3D

Customer View Model

[ENG\\_CVM\\_CVM\\_1658624-5\\_D.3d\\_igs.zip](#)

English

Customer View Model

[ENG\\_CVM\\_CVM\\_1658624-5\\_D.3d\\_stp.zip](#)

English

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

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### Datasheets & Catalog Pages

[Ribbon Cable Interconnect Solutions](#)

English

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### Product Specifications

[Application Specification](#)

English

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### Instruction Sheets

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

English

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### Agency Approvals

[Agency Approval Document](#)

English

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