



## RIBBON CABLE CONNECTORS



Active

PRODUCT DRAWING  
English

3D PDF

TE CONNECTIVITY (TE)

### A/L LOW PRO HDR 24P VERT BLACK

AMP-LATCH | Low Profile Headers

1-5103308-3

TE Internal Number: 1-5103308-3

Always EU RoHS/ELV Compliant

Centerline **2.54 mm [ .1 in ]**

PCB Mount Retention **Without**

PCB Mounting Orientation **Vertical**

Termination Method to PC Board **Through Hole**

Shrouded **Yes**

#### Product Drawings

[HEADER ASSY, VERTICAL, LOW PROFILE, AMP-LATCH](#)

PDF  
English

#### CAD Files

[Customer View Model](#)

2D\_DXF.ZIP  
English

[3D PDF](#)

PDF  
3D

[Customer View Model](#)

3D\_IGS.ZIP  
English

[Customer View Model](#)

3D\_STP.ZIP  
English

#### Catalog Pages/Data Sheets

[Ribbon Cable Interconnect Solutions](#)

PDF  
English

[AMPMODU\\_INTERCONNECTION\\_SYSTEM\\_SECTIONS](#)

PDF  
English

#### Product Specifications

Product Specification

[AMP-LATCH And IDC Header Connectors, .100 X .100 Inch Grid](#)

PDF  
English

Qualification Test Report

[Connector, AMP-LATCH Header, .100 X .100 Inch Grid](#)

PDF  
English

Please review product documents or [contact us](#) for the latest agency approval information. Please Note: Use the Product Drawing for all design activity.

Product Type Features	PCB Mounting Orientation	<b>Vertical</b>
	Shrouded	<b>Yes</b>
	Row-to-Row Spacing	<b>2.54 mm [ .1 in ]</b>
	Connector Style	<b>Plug</b>
	Profile	<b>Low</b>
	Applies To	<b>Printed Circuit Board</b>
	Product Type	<b>Connector</b>
	Board Standoff	<b>Without</b>
	Connector Type	<b>Header</b>
	Connector System	<b>Wire-to-Board</b>
Ejection Latches	<b>Without</b>	
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Configuration Features	Number of Positions	<b>24</b>
	Number of Rows	<b>2</b>
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Electrical Characteristics	Operating Voltage (VAC)	<b>250</b>
	Insulation Resistance (M $\Omega$ )	<b>5000</b>
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Body Features	Post Size	<b>.64 mm [ .025 in ]</b>
	Header Type	<b>Pin Header</b>
	Daisy Chain	<b>With</b>
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Contact Features	Contact Mating Area Plating Material	<b>Gold Flash over Palladium Nickel, Gold</b>
	Contact Design	<b>Square Post</b>
	Contact Shape	<b>Square</b>
	Contact Transmits (Typical)	<b>Signal (Data)</b>
	Solder Tail Contact Plating Material	<b>Tin over Nickel</b>
	Contact Current Rating (A)	<b>1</b>
	Contact Base Material	<b>Copper Alloy</b>
	Contact Mating Area Plating Thickness ( $\mu$ in)	<b>15</b>
	Contact Type	<b>Pin</b>
	Contact Termination Area Plating Material	<b>Tin</b>
	Contact Termination Area Plating Thickness	<b>2.54 <math>\mu</math>m [ 100 <math>\mu</math>in ]</b>
<hr/>		
Termination Features	Termination Method to PC Board	<b>Through Hole</b>
	Termination Post Length	<b>3.05 mm [ .12 in ]</b>

Mechanical Attachment	PCB Mount Retention	<b>Without</b>
	Mating Alignment Type	<b>Center, Dual Polarizing Bar</b>
	Mating Connector Lock	<b>Without</b>
	Mating Alignment	<b>With</b>
	Polarization	<b>With</b>
	Panel Mount Retention	<b>Without</b>
	Mating Retention	<b>Without</b>
	PCB Mount Alignment	<b>Without</b>

Housing Features	Centerline	<b>2.54 mm [ .1 in ]</b>
	Housing Color	<b>Black</b>
	Housing Style	<b>4-Sided</b>
	Housing Material	<b>Glass Filled Nylon/PBT</b>

Dimensions	Height	<b>8.813 mm [ .347 in ]</b>
	Length	<b>38.1 mm [ 1.5 in ]</b>
	Shrouded End Dimension	<b>3.81 mm [ .15 in ]</b>

Usage Conditions	Temperature Rating	<b>Standard</b>
	Operating Temperature Range (°C)	<b>-65 – 105</b>

Operation/Application	For Use With	<b>Mates with Receptacles</b>
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Industry Standards	UL Flammability Rating	<b>UL 94V-0</b>
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Packaging Features	Packaging Method	<b>Tube</b>
	Packaging Quantity	<b>35</b>

Product Compliance

[Statement of Compliance](#)  
PDF

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Products - 7 Results

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## RELATIONSHIP

**Mating Products**

Used to identify Mating Parts

[See All Mating Products](#)


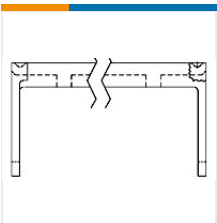
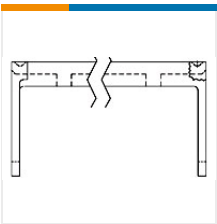
	PRODUCT - MATING PRODUCTS	<p>Connectors - Ribbon Connector Accessories AMP-LATCH   AMP-LATCH - NOVO</p> <p><b>024 STRAIN RELIEF A-L RCPT - 1-499252-0</b></p> <p>TE INTERNAL NUMBER: 1-499252-0</p> <p>✓ Active</p>	<p>Always EU RoHS/ELV Compliant</p> <p>Accessory Type <b>Strain Relief</b></p>	✓
	PRODUCT - MATING PRODUCTS	<p>Connectors - Ribbon Cable Connectors AMP-LATCH   AMP-LATCH - NOVO</p> <p><b>24 NOVO MIL/CTR 30DP, LEAD FREE - 1658622-5</b></p> <p>TE INTERNAL NUMBER: 1658622-5</p> <p>✓ Active</p>	<p>Always EU RoHS/ELV Compliant</p> <p>Centerline <b>2.54 mm</b></p> <p>PCB Mount Retention <b>Without</b></p> <p>PCB Mounting Orientation <b>Vertical</b></p> <p>Termination Method to PC Board <b>Through Hole - Solder</b></p> <p>Termination Method to Wire/Cable <b>Insulation Displacement Crimp (IDC)</b></p>	✓

## RELATIONSHIP

**Mating Products**

Used to identify Mating Parts

[See All Mating Products](#)

	PRODUCT - MATING PRODUCTS	<p>Connectors - Ribbon Cable Connectors AMP-LATCH - NOVO</p> <p><b>636-2430LF=FEM SKT BLD POL - 1-1658528-6</b></p> <p>TE INTERNAL NUMBER: 1-1658528-6</p> <p>✓ Active</p>	<p>Always EU RoHS/ELV Compliant</p> <p>Number of Positions <b>24</b></p> <p>Connector Style <b>Receptacle</b></p>	✓
	PRODUCT - MATING PRODUCTS	<p>Connectors - Ribbon Connector Accessories AMP-LATCH   AMP-LATCH - NOVO</p> <p><b>622-2431=3SKT IDC S 24 SR - 1-1437024-6</b></p> <p>TE INTERNAL NUMBER: 1-1437024-6 ALIAS ID: 622-2431</p> <p>✓ Active</p>	<p>Always EU RoHS/ELV Compliant</p> <p>Accessory Type <b>Strain Relief</b></p> <p>Number of Positions <b>24</b></p>	✓
	PRODUCT - MATING PRODUCTS	<p>Connectors - Ribbon Connector Accessories AMP-LATCH   AMP-LATCH - NOVO</p> <p><b>636-2431=FEM. CON.;W/STRAIN RE - 5-1437011-3</b></p> <p>TE INTERNAL NUMBER: 5-1437011-3 ALIAS ID: 636-2431</p>	<p>Always EU RoHS/ELV Compliant</p> <p>Accessory Type <b>Strain Relief</b></p> <p>Number of Positions <b>24</b></p>	✓

✓ Active

RELATIONSHIP

## Mating Products

Used to identify Mating Parts

[See All Mating Products](#)

PRODUCT - MATING PRODUCTS



Connectors - Ribbon Connector Accessories  
AMP-LATCH | AMP-LATCH - NOVO

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

TE INTERNAL NUMBER: 1-499252-0

✓ Active

Always EU RoHS/ELV Compliant

Accessory Type **Strain Relief**



PRODUCT - MATING PRODUCTS



Connectors - Ribbon Cable Connectors  
AMP-LATCH | AMP-LATCH - NOVO

### 24 NOVO MIL 30DP, LEAD FREE - 1658623-5

TE INTERNAL NUMBER: 1658623-5

✓ Active

Always EU RoHS/ELV Compliant

Centerline **2.54 mm**

PCB Mount Retention **Without**

PCB Mounting Orientation

**Vertical**

Termination Method to PC Board

**Through Hole - Solder**

Termination Method to

Wire/Cable **Insulation**

**Displacement Crimp (IDC)**

