



# RIBBON CABLE CONNECTORS



Active

PRODUCT DRAWING  
English

3D PDF

TE CONNECTIVITY (TE)

## A/L LOW PRO HDR 10P RA BLACK

AMP-LATCH | Low Profile Headers

5103310-1

TE Internal Number: 5103310-1

Always EU RoHS/ELV Compliant

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

PCB Mount Retention **Without**

PCB Mounting Orientation **Right Angle**

Termination Method to PC Board **Through Hole**

Shrouded **Yes**

### Product Drawings

[HEADER ASSY, RIGHT ANGLE, 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

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

PDF  
English

[Ribbon Cable Interconnect Solutions](#)

PDF  
English

[7-1773458-6\\_AMPLATCH\\_QRG](#)

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

### Product Environmental Compliance

TE Material Declaration

[MD 5103310-1 111820121451 dmta](#)

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>Right Angle</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>With</b>
	Connector Type	<b>Header</b>
	Connector System	<b>Wire-to-Board</b>
Ejection Latches	<b>Without</b>	
Configuration Features	Number of Positions	<b>10</b>
	Number of Rows	<b>2</b>
Electrical Characteristics	Operating Voltage (VAC)	<b>250</b>
	Insulation Resistance (MΩ)	<b>5000</b>
Body Features	Post Size	<b>.64 mm [ .025 in ]</b>
	Header Type	<b>Pin Header</b>
	Daisy Chain	<b>With</b>
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 (µin)	<b>15</b>
	Contact Type	<b>Pin</b>

Contact Termination Area Plating Material	<b>Tin</b>
Contact Termination Area Plating Thickness	<b>2.54 µm [ 100 µin ]</b>

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Termination Features	Termination Method to PC Board	<b>Through Hole</b>
	Termination Post Length	<b>3.43 mm [ .135 in ]</b>

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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>

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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>

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Dimensions	Height	<b>8.813 mm [ .347 in ]</b>
	Length	<b>20.32 mm [ .8 in ]</b>
	Shrouded End Dimension	<b>3.81 mm [ .15 in ]</b>

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

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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>

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Product Compliance [Statement of Compliance](#)  
PDF

[VIEW ALL PRODUCT COMPLIANCE](#)

## CUSTOMERS ALSO BOUGHT

<p>MULTIPLE CONFIGURATION PCB HEADERS &amp; RECEPTACLES</p>  <p>12 MODII HDR DRRA SHRD LF 5-102570-4</p> <p><a href="#">Save to List</a> <a href="#">Find Similar Products</a></p>	<p>THROUGH-HOLE RESISTORS</p>  <p>YR1 0.1% 7K32 YR1B7K32CC</p> <p><a href="#">Save to List</a> <a href="#">Find Similar Products</a></p>	<p>WIRE-TO-BOARD HEADERS &amp; RECEPTACLES</p>  <p>02P MTA100 HDR ASSY FL/ST 30AU 641215-2</p> <p><a href="#">Save to List</a> <a href="#">Find Similar Products</a></p>	<p>MULTIPLE CONFIGURATION PCB HEADERS &amp; RECEPTACLES</p>  <p>HEADER HE14 STRAIGHT 641215-8</p> <p><a href="#">Save to List</a> <a href="#">Find Similar Products</a></p>
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Products - 13 Results

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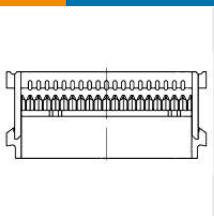
Relation Type ▼

RELATIONSHIP

### Mating Products

Used to identify Mating Parts

[See All Mating Products](#)

	<p>PRODUCT - MATING PRODUCTS</p> <p>Connectors - Ribbon Cable Connectors AMP-LATCH - NOVO</p> <p><b>609-1030LF FEM SOCKET, LEAD FREE - 1658526-4</b></p> <p>TE INTERNAL NUMBER: 1658526-4</p> <p>✓ Active</p> <p>Always EU RoHS/ELV Compliant</p> <p>Number of Positions <b>10</b></p> <p>Connector Style <b>Receptacle</b></p>
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	<p>PRODUCT - MATING PRODUCTS</p> <p>Connectors - Ribbon Connector Accessories AMP-LATCH   AMP-LATCH - NOVO</p> <p><b>609-1031HD=FSKT IDC S 10 SR - 3-1437020-7</b></p> <p>TE INTERNAL NUMBER: 3-1437020-7 ALIAS ID: 609-1031HD</p> <p>✓ Active</p> <p>Always EU RoHS/ELV Compliant</p> <p>Accessory Type <b>Strain Relief</b></p> <p>Number of Positions <b>10</b></p>
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RELATIONSHIP

### Mating Products

Used to identify Mating Parts

[See All Mating Products](#)

	<p>PRODUCT - MATING PRODUCTS</p> <p>Connectors - Ribbon Connector Accessories AMP-LATCH   AMP-LATCH - NOVO</p> <p><b>622-1031=FSKT IDC S 10 SR - 3-1437020-7</b></p> <p>TE INTERNAL NUMBER: 3-1437020-7 ALIAS ID: 622-1031</p> <p>✓ Active</p> <p>Always EU RoHS/ELV Compliant</p> <p>Accessory Type <b>Strain Relief</b></p>
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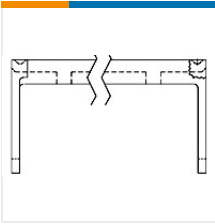


316 - 4-1437023-7  
 TE INTERNAL NUMBER: 4-1437023-7  
 ALIAS ID: 622-1031

Number of Positions **10**

✓ Active

PRODUCT - MATING PRODUCTS



Connectors - Ribbon Connector Accessories  
 AMP-LATCH | AMP-LATCH - NOVO  
**636-1031=FEM SOKT**  
**15/M S/R - 3-1437026-9**  
 TE INTERNAL NUMBER: 3-1437026-9  
 ALIAS ID: 636-1031

Always EU RoHS/ELV Compliant

Accessory Type **Strain Relief**

Number of Positions **10**

✓ Active

PRODUCT - MATING PRODUCTS



Connectors - Ribbon Cable Connectors  
 I AMP-LATCH - NOVO  
**622-1030LF FEM SOCKET,**  
**LEAD FREE - 1658527-3**  
 TE INTERNAL NUMBER: 1658527-3

Always EU RoHS/ELV Compliant

Number of Positions **10**

Connector Style **Receptacle**

✓ Active

RELATIONSHIP

**Mating Products**

Used to identify Mating Parts

[See All Mating Products](#)

PRODUCT - MATING PRODUCTS



Connectors - Ribbon Cable Connectors  
 AMP-LATCH | AMP-LATCH - NOVO  
**10 NOVO MIL/CTR 30DP,**  
**LEAD FREE - 1658622-1**  
 TE INTERNAL NUMBER: 1658622-1

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)**

✓ Active

PRODUCT - MATING PRODUCTS



Connectors - Ribbon Connector Accessories  
 AMP-LATCH | AMP-LATCH - NOVO  
**010 STRAIN RELIEF A-L**  
**RCPT - 499252-5**  
 TE INTERNAL NUMBER: 499252-5  
 ALIAS ID: 2-42935-7201

Always EU RoHS/ELV Compliant

Accessory Type **Strain Relief**

✓ Active