



# RIBBON CABLE CONNECTORS



## TE CONNECTIVITY (TE) A/L UNIV HDR 20P RA AMP-LATCH | Universal Headers

5102159-4  
TE Internal Number: 5102159-4

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**

Active

PRODUCT DRAWING  
English

3D PDF

### Product Drawings

#### HEADER ASSY, UNIVERSAL, AMP-LATCH

PDF  
English

### CAD Files

#### 3D PDF

PDF  
English

#### Customer View Model

2D\_DXF.ZIP  
English

#### Customer View Model

3D\_IGS.ZIP  
English

#### Customer View Model

3D\_STP.ZIP  
English

### Catalog Pages/Data Sheets

#### 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

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

	Shrouded	<b>Yes</b>
	Row-to-Row Spacing	<b>2.54 mm [ .1 in ]</b>
	Connector Style	<b>Plug</b>
	Profile	<b>Standard</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>
<hr/>		
Configuration Features	Number of Positions	<b>20</b>
	Number of Rows	<b>2</b>
<hr/>		
Electrical Characteristics	Operating Voltage (VAC)	<b>250</b>
	Insulation Resistance (MΩ)	<b>1000 – 5000</b>
<hr/>		
Body Features	Post Size	<b>.64 mm [ .025 in ]</b>
	Header Type	<b>Universal Ejection Pin Headers</b>
<hr/>		
Contact Features	Contact Mating Area Plating Material	<b>Gold Flash over Palladium Nickel, Gold</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>Phosphor Bronze</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>
<hr/>		
Termination Features	Termination Method to PC Board	<b>Through Hole</b>
	Termination Post Length	<b>2.79 mm [ .11 in ]</b>
<hr/>		
Mechanical Attachment	PCB Mount Retention	<b>Without</b>
	Mating Alignment Type	<b>Center, Dual Polarizing Bar</b>

Mating Connector Lock	<b>Without</b>
Mating Connector Lock Type	<b>Ejection Latch</b>
Mating Alignment	<b>With</b>
Polarization	<b>With</b>
Panel Mount Retention	<b>Without</b>
Mating Retention	<b>With</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 Entry Style	<b>Top</b>
	Housing Material	<b>Nylon - GF</b>

Dimensions	Height	<b>13.94 mm [ .55 in ]</b>
	Length	<b>44.7 mm [ 1.76 in ]</b>
	PCB Thickness (Recommended)	<b>1.57 mm [ .062 in ]</b>
	Shrouded End Dimension	<b>3.81 mm [ .15 in ]</b>

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

Operation/Application	For Use With	<b>AMP-Latch Receptacle</b>
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Industry Standards	UL Flammability Rating	<b>UL 94V-0</b>
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Packaging Features	Packaging Method	<b>Tray</b>
	Packaging Quantity	<b>70</b>

Product Compliance [Statement of Compliance](#)  
PDF

[VIEW ALL PRODUCT COMPLIANCE](#)

## CUSTOMERS ALSO BOUGHT



 <b>A/L UNIV HDR 26P VERT</b> 5102153-6	 <b>25 MSFL PLUG RA 590 (SL, FM, BL)</b> 5747834-6	 <b>A/L UNIV HDR 20P VERT</b> 5102153-4	 <b>A/L UNIV HDR 10P RA</b> 5102159-1
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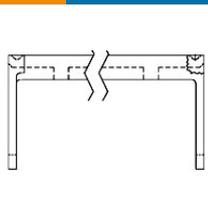
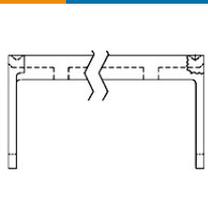
Relation Type

RELATIONSHIP

**Mating Products**

Used to identify Mating Parts

[See All Mating Products](#)

PRODUCT - MATING PRODUCTS		
	Connectors - Ribbon Connector Accessories AMP-LATCH   AMP-LATCH - NOVO <b>636-2031=FEM SOKT</b> <b>15/M S/R - 1437027-7</b> TE INTERNAL NUMBER: 1437027-7 ALIAS ID: 636-2031 ✓ Active	Always EU RoHS/ELV Compliant  Accessory Type <b>Strain Relief</b>  Number of Positions <b>20</b>
	Connectors - Ribbon Connector Accessories AMP-LATCH   AMP-LATCH - NOVO <b>622-2031=FSKT IDC S 20</b> <b>SR - 1437024-5</b> TE INTERNAL NUMBER: 1437024-5 ALIAS ID: 622-2031 ✓ Active	Always EU RoHS/ELV Compliant  Accessory Type <b>Strain Relief</b>  Number of Positions <b>20</b>
	Connectors - Ribbon Cable Connectors   AMP-LATCH - NOVO <b>636-2030LF=FEM SKT</b> <b>BLADE POL 1</b> <b>- 1-1658528-5</b> TE INTERNAL NUMBER: 1-1658528-5 ✓ Active	Always EU RoHS/ELV Compliant  Number of Positions <b>20</b>  Connector Style <b>Receptacle</b>

RELATIONSHIP

**Mating Products**

Used to identify Mating Parts

[See All Mating Products](#)

PRODUCT - MATING PRODUCTS		
	Connectors - Ribbon Connector Accessories AMP-LATCH   AMP-LATCH - NOVO <b>020 STRAIN RELIEF A-L</b>	Always EU RoHS/ELV Compliant  Accessory Type <b>Strain Relief</b>



## RCPT - 499252-2

TE INTERNAL NUMBER: 499252-2  
ALIAS ID: 0-0499252-2, 1108423

✓ Active

### PRODUCT - MATING PRODUCTS



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

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

TE INTERNAL NUMBER: 1658620-4

✓ 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)**



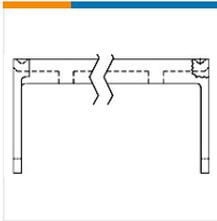
### RELATIONSHIP

## Mating Products

Used to identify Mating Parts

[See All Mating Products](#)

### PRODUCT - MATING PRODUCTS



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

## 609-2031HD=FSKT IDC S 20 SR - 8-1437020-6

TE INTERNAL NUMBER: 8-1437020-6  
ALIAS ID: 609-2031HD

✓ Active

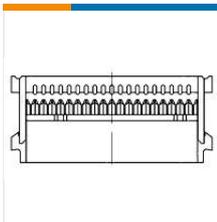
Always EU RoHS/ELV Compliant

Accessory Type **Strain Relief**

Number of Positions **20**



### PRODUCT - MATING PRODUCTS



Connectors - Ribbon Cable Connectors  
AMP-LATCH - NOVO

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

TE INTERNAL NUMBER: 3-1658526-0

✓ Active

Always EU RoHS/ELV Compliant

Number of Positions **20**

Connector Style **Receptacle**

