



RIBBON CABLE CONNECTORS



TE CONNECTIVITY (TE) A/L UNIV HDR 10P RA AMP-LATCH | Universal Headers

5102160-1
TE Internal Number: 5102160-1

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**

Active

PRODUCT DRAWING
English

3D PDF

Product Drawings

[HEADER ASSY, UNIVERSAL, AMP-LATCH](#)

PDF
English

CAD Files

[3D PDF](#)

PDF
3D

[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

[AMPMODU_INTERCONNECTION_SYSTEM_SECTIONS](#)

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	Yes
	Row-to-Row Spacing	2.54 mm [.1 in]
	Connector Style	Plug
	Profile	Standard
	Applies To	Printed Circuit Board
	Product Type	Connector
	Board Standoff	Without
	Connector Type	Header
	Connector System	Wire-to-Board
	Ejection Latches	Without
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Configuration Features	Number of Positions	10
	Number of Rows	2
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Electrical Characteristics	Operating Voltage (VAC)	250
	Insulation Resistance (MΩ)	1000 – 5000
<hr/>		
Body Features	Post Size	.64 mm [.025 in]
	Header Type	Universal Ejection Pin Headers
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Contact Features	Contact Mating Area Plating Material	Gold Flash over Palladium Nickel, Gold
	Contact Shape	Square
	Contact Transmits (Typical)	Signal (Data)
	Solder Tail Contact Plating Material	Tin over Nickel
	Contact Current Rating (A)	1
	Contact Base Material	Phosphor Bronze
	Contact Mating Area Plating Thickness (µin)	30
	Contact Type	Pin
	Contact Termination Area Plating Material	Tin
	Contact Termination Area Plating Thickness	2.54 µm [100 µin]
<hr/>		
Termination Features	Termination Method to PC Board	Through Hole
	Termination Post Length	2.79 mm [.11 in]
<hr/>		
Mechanical Attachment	PCB Mount Retention	Without
	Mating Alignment Type	Center, Dual Polarizing Bar

Mating Connector Lock	Without
Mating Connector Lock Type	Ejection Latch
Mating Alignment	With
Polarization	With
Panel Mount Retention	Without
Mating Retention	With
PCB Mount Alignment	Without

Housing Features	Centerline	2.54 mm [.1 in]
	Housing Color	Black
	Housing Style	4-Sided
	Housing Entry Style	Top
	Housing Material	Nylon - GF

Dimensions	Height	13.94 mm [.55 in]
	Length	32 mm [1.26 in]
	PCB Thickness (Recommended)	1.57 mm [.062 in]
	Shrouded End Dimension	3.81 mm [.15 in]

Usage Conditions	Temperature Rating	High
	Operating Temperature Range (°C)	-65 – 105

Operation/Application	For Use With	AMP-Latch Receptacle
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Industry Standards	UL Flammability Rating	UL 94V-0
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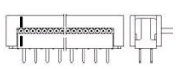
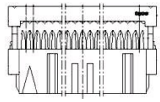


Packaging Features	Packaging Method	Tray
	Packaging Quantity	90

Other	Comment	Pin headers in 10- and 14-position sizes have only one slot for snap-in polarizer (military polarization), located as shown., Pin headers in 10-position size have only slot for dual polarization, located as shown.
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Product Compliance [Statement of Compliance PDF](#)

[VIEW ALL PRODUCT COMPLIANCE](#)

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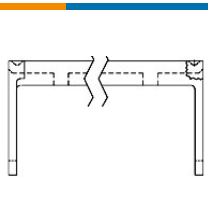
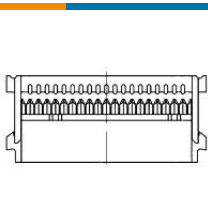
Relation Type ▼

RELATIONSHIP

Mating Products

Used to identify Mating Parts

[See All Mating Products](#)


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

RELATIONSHIP

Mating Products

Used to identify Mating Parts

[See All Mating Products](#)

	<p>PRODUCT - MATING PRODUCTS</p> <p>Connectors - Ribbon Cable Connectors AMP-LATCH AMP-LATCH - NOVO</p> <p>10 NOVO MIL 15DP, LEAD FREE - 1658620-1</p> <p>TE INTERNAL NUMBER: 1658620-1</p> <p>Always EU RoHS/ELV Compliant</p> <p>Centerline 2.54 mm</p> <p>PCB Mount Retention Without</p> <p>PCB Mounting Orientation Vertical</p> <p>Active</p>
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Termination Method to PC Board

Through Hole - Solder

Termination Method to

Wire/Cable **Insulation**

Displacement Crimp (IDC)



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

✓ Active

Always EU RoHS/ELV Compliant

Accessory Type **Strain Relief**

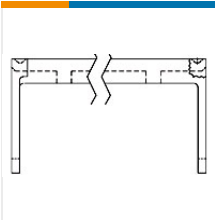


RELATIONSHIP

Mating Products

Used to identify Mating Parts

[See All Mating Products](#)



PRODUCT - MATING PRODUCTS

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

609-1031HD=FSKT IDC S 10 SR - 3-1437020-7

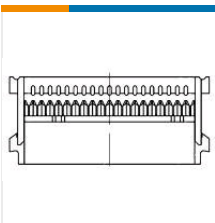
TE INTERNAL NUMBER: 3-1437020-7
ALIAS ID: 609-1031HD

✓ Active

Always EU RoHS/ELV Compliant

Accessory Type **Strain Relief**

Number of Positions **10**



PRODUCT - MATING PRODUCTS

Connectors - Ribbon Cable Connectors
AMP-LATCH - NOVO

609-1000MLF FEM SCKT, LEAD FREE - 1658526-3

TE INTERNAL NUMBER: 1658526-3

✓ Active

Always EU RoHS/ELV Compliant

Number of Positions **10**

Connector Style **Receptacle**



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