



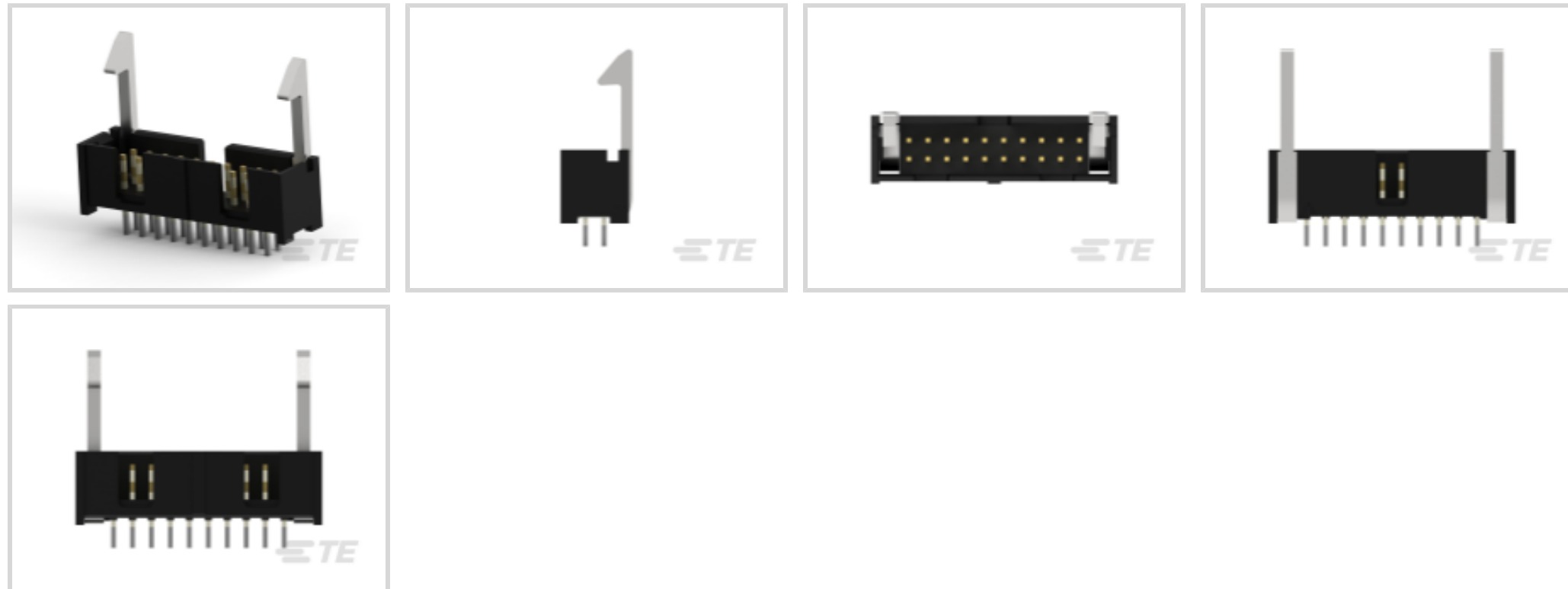
**AMP-LATCH**

TE Internal #: 104128-4

Ribbon Cable Connectors, Board-to-Board, 20 Position, 2.54 mm [.1 in] Centerline, Vertical, Through Hole - Solder, 2 Row, Receptacle, Low Profile

[View on TE.com >](#)

Connectors > PCB Connectors > Wire-to-Board Connectors > FFC, FPC & Ribbon Connectors > Ribbon Cable Connectors



Connector System: **Board-to-Board**

Number of Positions: **20**

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

PCB Mount Retention: **Without**

PCB Mount Orientation: **Vertical**

**Features**

**Product Type Features**

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

**Configuration Features**

Number of Positions	20
PCB Mount Orientation	Vertical
Number of Rows	2

**Electrical Characteristics**

Insulation Resistance	5000 MΩ
-----------------------	---------

**Body Features**

Daisy Chain	With
Primary Product Color	Black



Connector Profile	Low
-------------------	-----

### Contact Features

Mating Square Post Dimension	.64 mm[.025 in]
PCB Contact Termination Area Plating Material Thickness	2.54 $\mu$ m[100 $\mu$ in]
Contact Type	Pin
	30 $\mu$ in
Contact Mating Area Plating Material	Gold, Gold Flash, Gold Flash over Palladium Nickel
Contact Shape & Form	Square
Contact Underplating Material	Nickel
PCB Contact Termination Area Plating Material	Tin-Lead
Contact Base Material	Phosphor Bronze
Contact Current Rating (Max)	1 A

### Termination Features

Square Termination Post & Tail Dimension	.64 mm[.025 in]
Termination Post & Tail Length	3.05 mm[.12 in]
Termination Method to Printed Circuit Board	Through Hole - Solder

### Mechanical Attachment

Mating Alignment	With
PCB Mount Alignment	With
Panel Mount Feature	Without
PCB Mount Retention	Without
Mating Alignment Type	Center, Dual Polarizing Bar
Mating Retention	With
Mating Retention Type	Ejection Latch
Connector Mounting Type	Board Mount

### Housing Features

Housing Material	Nylon - GF
Centerline (Pitch)	2.54 mm[.1 in]

### Dimensions

Shrouded End Dimension	3.81 mm[.15 in]
Connector Length	33.02 mm[1.3 in]



Connector Height	9.77 mm[.38 in]
------------------	-----------------

Row-to-Row Spacing	2.54 mm[.1 in]
--------------------	----------------

### Usage Conditions

Housing Temperature Rating	Standard
----------------------------	----------

Operating Temperature Range	-65 – 105 °C[-85 – 221 °F]
-----------------------------	----------------------------

### Operation/Application

Solder Process Feature	Solder Dipped
------------------------	---------------

Circuit Application	Signal
---------------------	--------

### Industry Standards

UL Flammability Rating	UL 94V-0
------------------------	----------

### Packaging Features

Packaging Quantity	72
--------------------	----

Packaging Method	Tray
------------------	------

### Product Compliance

[For compliance documentation, visit the product page on TE.com>](#)

EU RoHS Directive 2011/65/EU	Not Compliant
------------------------------	---------------

EU ELV Directive 2000/53/EC	Not Compliant
-----------------------------	---------------

China RoHS 2 Directive MIIT Order No 32, 2016	Restricted Materials Above Threshold
---	--------------------------------------

EU REACH Regulation (EC) No. 1907/2006	<p>Current ECHA Candidate List: JUNE 2023 (235)  Candidate List Declared Against: JAN 2021 (211)  SVHC &gt; Threshold:  Pb (13% in COMPONENT PART)</p> <p><b>Article Safe Usage Statements:</b>  Do not eat, drink or smoke when using this product. Wash thoroughly after handling. Recycle if possible and dispose of the article by following all applicable governmental regulations relevant to your geographic location.</p>
--	--

Halogen Content	BFR/CFR/PVC Free, but Br/Cl >900 ppm in other sources.
-----------------	--

Solder Process Capability	Not lead free process capable
---------------------------	-------------------------------

#### 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 # 2-1658527-3  
622-2030LF=FSKT IDC S 20 30AU



TE Part # 1658528-4  
636-2041LF FEM SOCKET, LEAD FREE



TE Part # 1658527-8  
622-2041LF FEM SOCKET, LEAD FREE



TE Part # 1-1658528-5  
636-2030LF=FEM SKT BLADE POL 1

## Customers Also Bought



TE Part # 5102154-4  
A/L UNIV HDR 20P VERT



TE Part # 1676625-6  
HSA25 R50 5%



TE Part # 87224-3  
03 MODII HDR SRST UNSHRD .100



TE Part # 104313-1  
010 LOPRO HDR SP 30DP LATCH



TE Part # 1-1761606-5  
IDC LOW PRO HDR 50P VERT LG LA



TE Part # 1-770621-1  
12P MINI UMNL HDR ASSY AU LF



TE Part # 171826-3  
3P POST HEADER ASSY EI



TE Part # 5-104362-2  
03 MTE HDR SRST LATCH W/HLDWN



TE Part # 214479-000  
222A121-100/86-0

## Documents

### Product Drawings

020 LOPRO HDR SP 30DP LATCH



English

---

**CAD Files**

**3D PDF**

3D

**Customer View Model**

[ENG\\_CVM\\_CVM\\_104128-4\\_J.2d\\_dxf.zip](#)

English

**Customer View Model**

[ENG\\_CVM\\_CVM\\_104128-4\\_J.3d\\_igs.zip](#)

English

**Customer View Model**

[ENG\\_CVM\\_CVM\\_104128-4\\_J.3d\\_stp.zip](#)

English

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

---

**Product Specifications**

**Product Specification**

English

---

**Agency Approvals**

**Agency Approval Document**

English