

103308-8 ✓ ACTIVE

#### AMP-LATCH

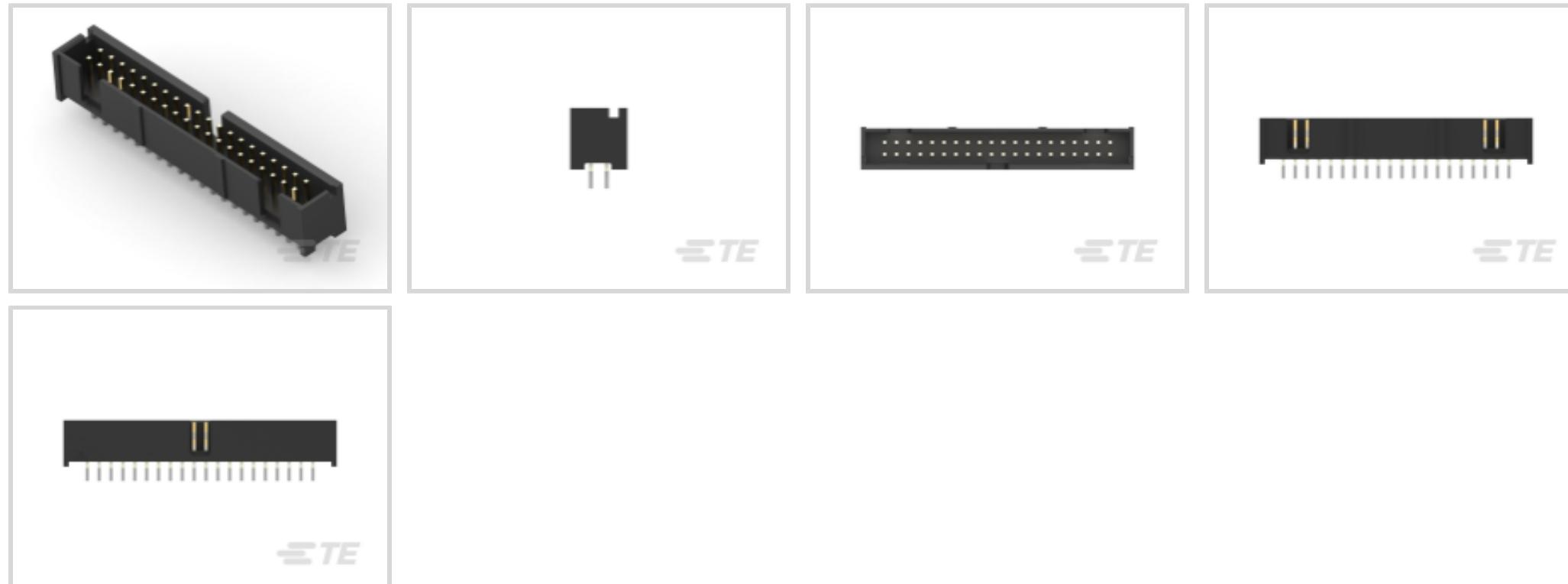
TE Internal #: 103308-8

Ribbon Cable Connectors, Board-to-Board, 40 Position, 2.54 mm [.1 in] Centerline, Vertical, Through Hole - Solder, 2 Row, Receptacle, Low Profile

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



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

Number of Positions: **40**

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	40
PCB Mount Orientation	Vertical
Number of Rows	2

#### Electrical Characteristics

Insulation Resistance	5000 MΩ
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#### 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
	15 $\mu$ m
Contact Mating Area Plating Material	Gold, Gold Flash, Gold Flash over Palladium Nickel
Contact Shape & Form	Dual Beam
Contact Underplating Material	Nickel
PCB Contact Termination Area Plating Material	Tin-Lead
Contact Base Material	Copper Alloy
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	Without
Connector Mounting Type	Board Mount

## Housing Features

Housing Material	Thermoplastic
Centerline (Pitch)	2.54 mm [.1 in]

## Dimensions

Connector Length	2.3 mm, 58.42 mm
Shrouded End Dimension	3.81 mm [.15 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

Circuit Application	Signal
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#### Industry Standards

UL Flammability Rating	UL 94V-0
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#### Packaging Features

Packaging Quantity	40
Packaging Method	Tube

#### Product Compliance

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

EU RoHS Directive 2011/65/EU	Not Compliant
EU ELV Directive 2000/53/EC	Compliant with Exemptions
China RoHS 2 Directive MIIT Order No 32, 2016	Restricted Materials Above Threshold
EU REACH Regulation (EC) No. 1907/2006	Current ECHA Candidate List: JAN 2024 (240) Candidate List Declared Against: JAN 2024 (240) SVHC > Threshold: Pb (13% in Component Part) Article Safe Usage Statements: 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.
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 # 1-487223-0  
040 HOUSING FFC RCPT 100CL DR

## Customers Also Bought



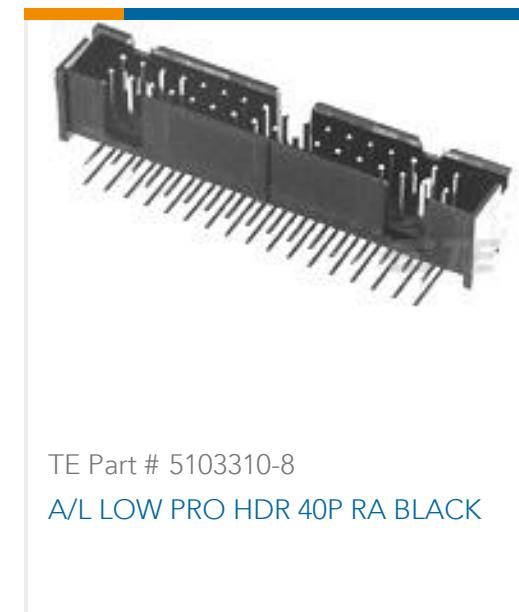
TE Part # NB-PTCO-160  
Pt100, 2.0x2.3, Class B, PTFC101B1A0



TE Part # 5499913-6  
A/L UNIV HDR 26P RA SHT LAT



TE Part # 641215-6  
PCB Header: Polyester, Vertical,  
Unshrouded, No Mating Alignment



TE Part # 5103310-8  
A/L LOW PRO HDR 40P RA BLACK



TE Part # 350211-1  
04P CMNL HDR ASSY PC



TE Part # 1437664-4  
NC6-P107-02=NC6 ASSEMBLY



TE Part # DT13-48PABCD-R015  
HDR, 48P, BLK, RA EEC, NI/CU, ABCD

## Documents

### Product Drawings

[040 LOPRO HDR SP 15DP](#)

English

### CAD Files

[3D PDF](#)

3D

Customer View Model

[ENG\\_CVM\\_CVM\\_103308-8\\_L.2d\\_dxf.zip](#)

English

Customer View Model

[ENG\\_CVM\\_CVM\\_103308-8\\_L.3d\\_igs.zip](#)

English

**Customer View Model**

[ENG\\_CVM\\_CVM\\_103308-8\\_L.3d\\_stp.zip](#)

English

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**Product Specifications**

[Product Specification](#)

English

[Product Specification](#)

English

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**Agency Approvals**

[Agency Approval Document](#)

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