

2057410-1

✓ ACTIVE

**IMPACT**

TE Internal #: 2057410-1

High Speed Backplane Connectors, 96 Position, Mating Alignment, Guide Slot Mating Alignment Type, 6 Row, 16 Column, PCB Mount Receptacle, IMPACT

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Connectors > PCB Connectors > Backplane Connectors > High Speed Backplane Connectors



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

Number of Positions: **96**

Row-to-Row Spacing: **1.35 mm [ .053 in ]**

Mating Alignment: **With**

Mating Alignment Type: **Guide Slot**

**Features****Product Type Features**

Signal Arrangement	Differential
Connector System	Board-to-Board
PCB Connector Assembly Type	PCB Mount Receptacle
Shroud Style	Unshrouded
Connector & Contact Terminates To	Printed Circuit Board

**Configuration Features**

Number of Ground Positions	32
Number of Pairs	32
Stackable	No
Number of Signal Positions	64
Number of Positions	96
Number of Rows	6
Number of Columns	16
PCB Mount Orientation	Right Angle

Guide Location	Right
<b>Electrical Characteristics</b>	
Impedance	100 Ω
Operating Voltage	30 VAC
<b>Signal Characteristics</b>	
Number of Differential Pairs per Column	2
Data Rate	20 – 25 Gb/s
<b>Body Features</b>	
Primary Product Color	Black
<b>Contact Features</b>	
PCB Contact Termination Area Plating Material Thickness	1.27 µm[50 µin]
Contact Layout	Inline
Contact Type	Socket
Contact Underplating Material Thickness	1.27 µm[50 µin]
Contact Mating Area Plating Material Thickness	.762 µm[30 µin]
Contact Mating Area Plating Material	Gold
PCB Contact Termination Area Plating Material Finish	Matte
Contact Shape & Form	Dual Beam
Contact Underplating Material	Nickel
PCB Contact Termination Area Plating Material	Tin
Contact Base Material	Copper Alloy
Contact Current Rating (Max)	.75 A
<b>Termination Features</b>	
Termination Post & Tail Length	1.2 mm[.047 in]
Termination Method to Printed Circuit Board	Through Hole - Press-Fit
<b>Mechanical Attachment</b>	
PCB Mount Alignment Type	Locating Posts
Guide Hardware	With
Mating Retention	Without
PCB Mount Retention	With
PCB Mount Retention Type	Action/Compliant Tail & Screw
Mating Alignment	With

Mating Alignment Type

Guide Slot

Connector Mounting Type

Board Mount

**Housing Features**

Number of Shrouded Sides

0

End Wall Location

None

Housing Material

LCP - GF (Liquid Crystal Polymer)

Centerline (Pitch)

1.9 mm[.075 in]

**Dimensions**

Connector Length

38 mm[1.496 in]

Connector Height

10.9 mm[.429 in]

Connector Width

20.1 mm[.791 in]

PCB Thickness (Recommended)

1.6 mm

PCB Hole Diameter

.39 mm[.015 in]

Row-to-Row Spacing

1.35 mm[.053 in]

**Usage Conditions**

Operating Temperature Range

-55 – 85 °C[-67 – 185 °F]

**Operation/Application**

Circuit Application

Signal

**Industry Standards**

Compatible With Approved Standards Products

CSA Certified, UL E28476

UL Flammability Rating

UL 94V-0

**Packaging Features**

Packaging Method

Box &amp; Tube, Tube

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

EU RoHS Directive 2011/65/EU

Compliant

EU ELV Directive 2000/53/EC

Compliant

China RoHS 2 Directive MIIT Order No 32, 2016

No Restricted Materials Above Threshold

EU REACH Regulation (EC) No. 1907/2006

Current ECHA Candidate List: JUNE 2023  
(235)Candidate List Declared Against: JUNE  
2023 (235)

Does not contain REACH SVHC

Halogen Content

Low Halogen - Br, Cl, F, I < 900 ppm per  
homogenous material. Also BFR/CFR/PVC  
Free

Solder Process Capability

Not applicable for solder process capability

## 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>

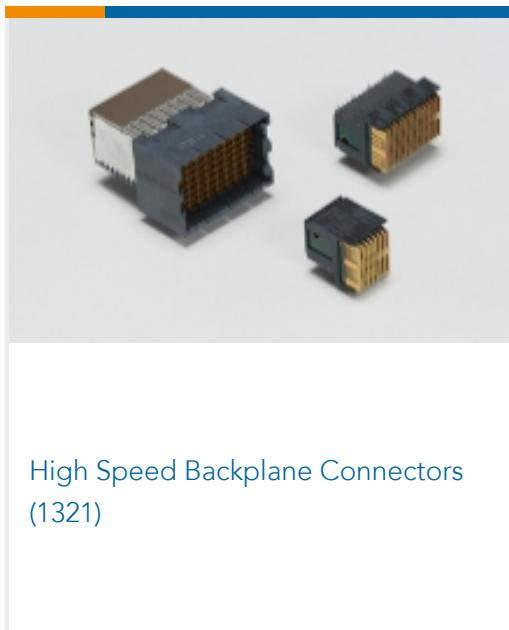
## Compatible Parts



TE Part # 2057748-1  
IMP100S,H,V2P16C,UG,OEW39,4.5

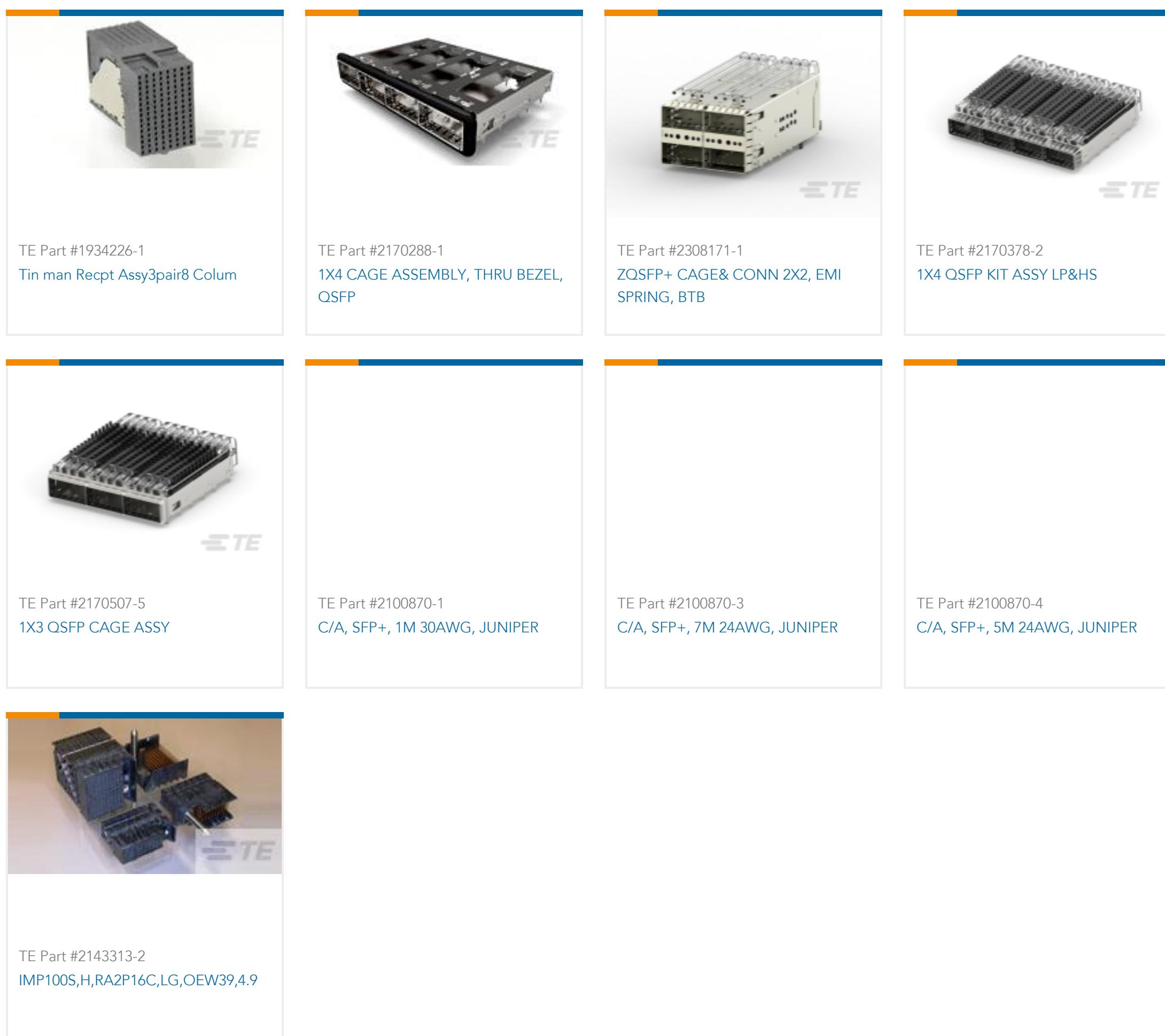


TE Part # 2018539-1  
TOOL, SEAT 2 PR 16 COL,BP CONN

Also in the Series | **IMPACT**

High Speed Backplane Connectors  
(1321)

## Customers Also Bought



## Documents

### Product Drawings

[IMP100S, R, RA2P16C, RG, 39](#)

English

### CAD Files

Customer View Model

[ENG\\_CVM\\_CVM\\_2057410-1\\_A.2d\\_dxf.zip](#)

English

### 3D PDF

3D

Customer View Model

[ENG\\_CVM\\_CVM\\_2057410-1\\_A.3d\\_igs.zip](#)

English

Customer View Model

[ENG\\_CVM\\_CVM\\_2057410-1\\_A.3d\\_stp.zip](#)

English

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

### Datasheets & Catalog Pages

## [7-1773458-1\\_IMPACT\\_BACKPLANE\\_CONNECTOR\\_SYSTEM\\_CATALOG](#)

English

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### [Product Specifications](#)

[Application Specification](#)

English

### [Application Specification](#)

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### [Agency Approvals](#)

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