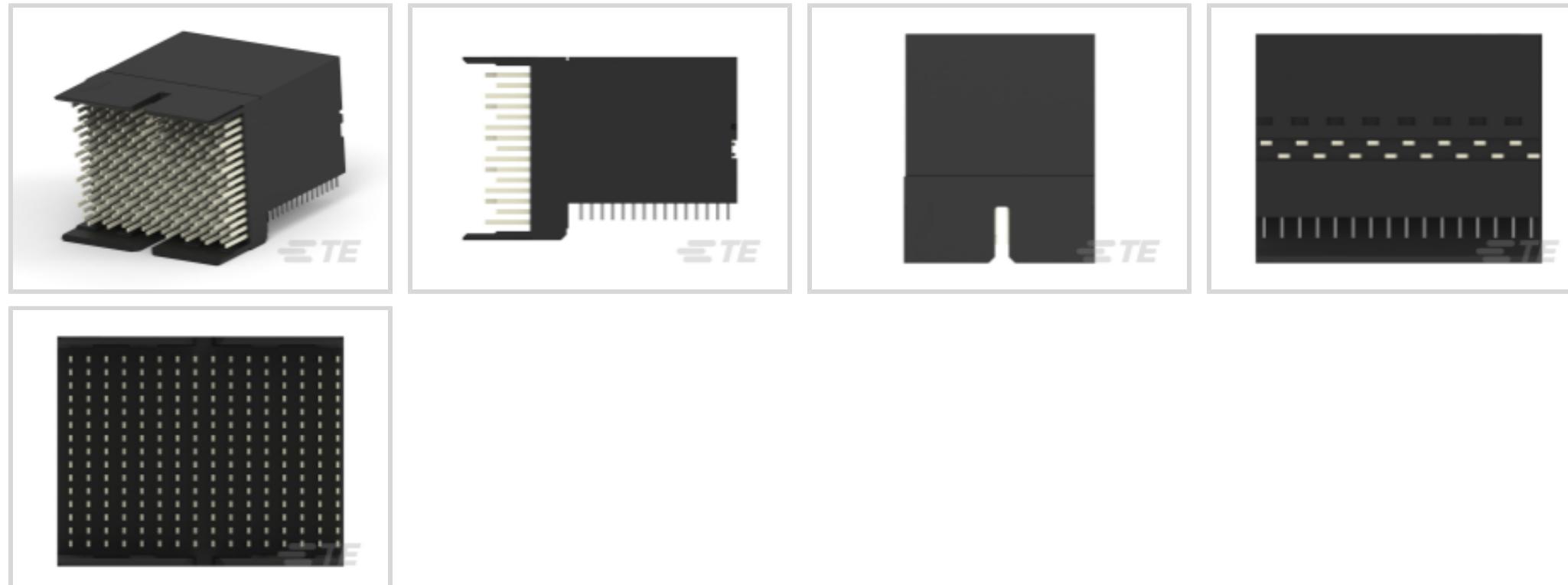


Connectors > PCB Connectors > Backplane Connectors > High Speed Backplane Connectors



Number of Positions: **240**

Row-to-Row Spacing: **1.4 mm [ .055 in ]**

Mating Alignment: **With**

Mating Alignment Type: **Guide Slot**

Number of Rows: **15**

## Features

### Product Type Features

Backplane Module Type	Center
Signal Arrangement	Differential
Connector System	Board-to-Board
Connector & Contact Terminates To	Printed Circuit Board
PCB Connector Assembly Type	PCB Mount Header
Shroud Style	Partially Shrouded

### Configuration Features

Pairs per Column	5
Number of Pairs	80
Stackable	No
Number of Signal Positions	160
Backplane Architecture	Co-Planar
Number of Positions	240
Number of Rows	15

Number of Columns	16
PCB Mount Orientation	Right Angle

#### Electrical Characteristics

Impedance	100 Ω
Operating Voltage	250 VAC

#### Signal Characteristics

Differential Impedance	100 Ω
Number of Differential Pairs per Column	5
Data Rate	10 Gb/s

#### Body Features

Shield Material	Phosphor Bronze
Primary Product Color	Black

#### Contact Features

Contact Mating Area Length	6 mm[.236 in]
PCB Contact Termination Area Plating Material Thickness	.5 μm[20 μin]
Contact Type	Pin
Contact Mating Area Plating Material	Gold
PCB Contact Termination Area Plating Material Finish	Matte
Contact Shape & Form	Rectangular
PCB Contact Termination Area Plating Material	Tin
Contact Base Material	Phosphor Bronze
Contact Current Rating (Max)	.5 A

#### Termination Features

Termination Post & Tail Length	2.2 mm[.087 in]
Termination Method to Printed Circuit Board	Through Hole - Press-Fit

#### Mechanical Attachment

Guide Hardware	Without
Mating Retention	Without
PCB Mount Alignment	Without
PCB Mount Retention	With
PCB Mount Retention Type	Action/Compliant Tail
Mating Alignment	With

Mating Alignment Type

Guide Slot

Connector Mounting Type

Board Mount

**Housing Features**

Number of Shrouded Sides

2

End Wall Location

Open

Housing Material

LCP (Liquid Crystal Polymer)

Centerline (Pitch)

1.9 mm[.075 in]

**Dimensions**

Connector Length

30.55 mm

Connector Height

24.4 mm

Connector Width

36.61 mm

PCB Thickness (Recommended)

1.57 mm[.062 in]

PCB Hole Diameter

.47 mm

Row-to-Row Spacing

1.4 mm[.055 in]

**Usage Conditions**

Operating Temperature Range

-65 - 90 °C[-85 - 194 °F]

**Operation/Application**

Circuit Application

Signal

**Industry Standards**

Compatible With Agency/Standards Products

UL

Compatible With Approved Standards Products

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: JAN 2024  
(240)

Candidate List Declared Against: JAN 2024  
(240)

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

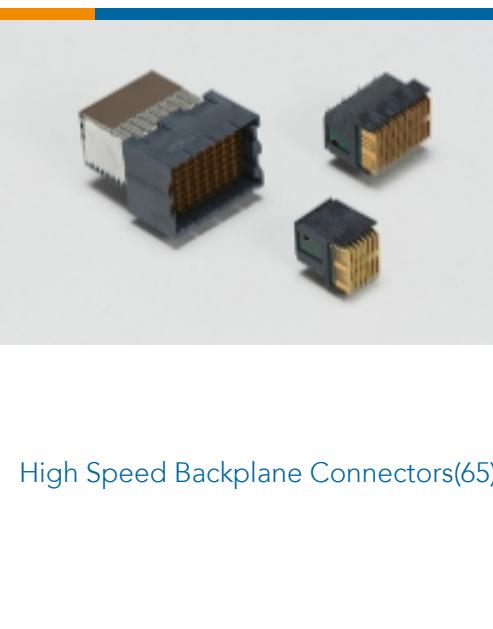
This information is provided based on reasonable inquiry of our suppliers and represents our current actual knowledge based on the information they provided. This information is subject to change. The part numbers that TE has identified as EU RoHS compliant have a maximum concentration of 0.1% by weight 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



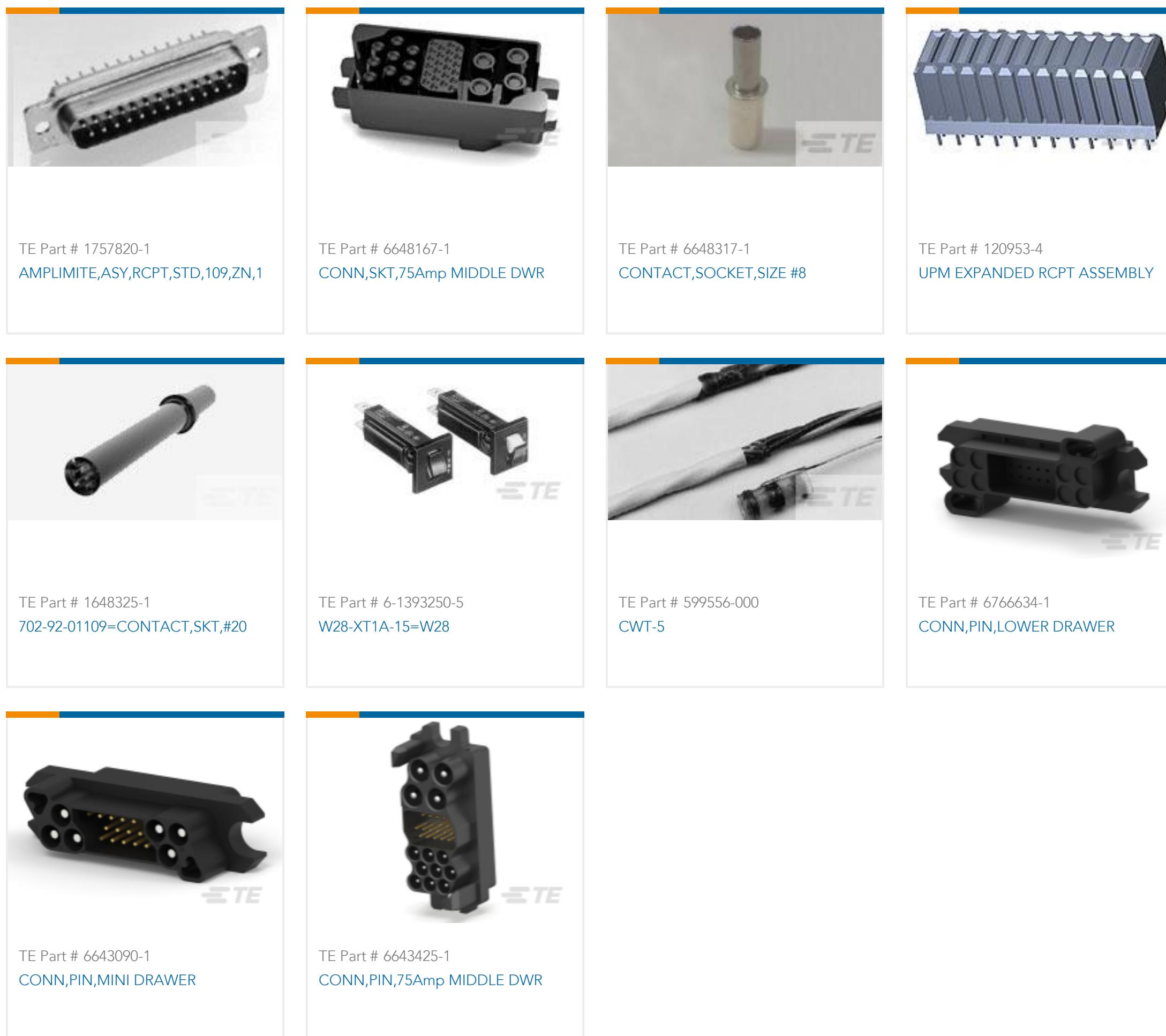
TE Part # 1934221-1  
Tin Man Recept Assy 5 Pair 16 Column

## Also in the Series | [Z-PACK TinMan](#)



High Speed Backplane Connectors(65)

## Customers Also Bought



## Documents

### Product Drawings

[TinMan R/A Header Assy 5x16 Open](#)

English

### CAD Files

[Customer View Model](#)

[ENG\\_CVM\\_CVM\\_1934347-1\\_B.3d\\_stp.zip](#)

English

[Customer View Model](#)

[ENG\\_CVM\\_CVM\\_1934347-1\\_B.2d\\_dxf.zip](#)

English

### 3D PDF

3D

[Customer View Model](#)

[ENG\\_CVM\\_CVM\\_1934347-1\\_B.3d\\_igs.zip](#)

English

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

### Datasheets & Catalog Pages

## High Speed Backplane Connectors catalog - Z-PACK TinMan High Speed, High Density Backplane Connector

English

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[Product Specifications](#)

[Application Specification](#)

English