

1934346-1 ✓ ACTIVE

Z-PACK | Z-PACK TinMan

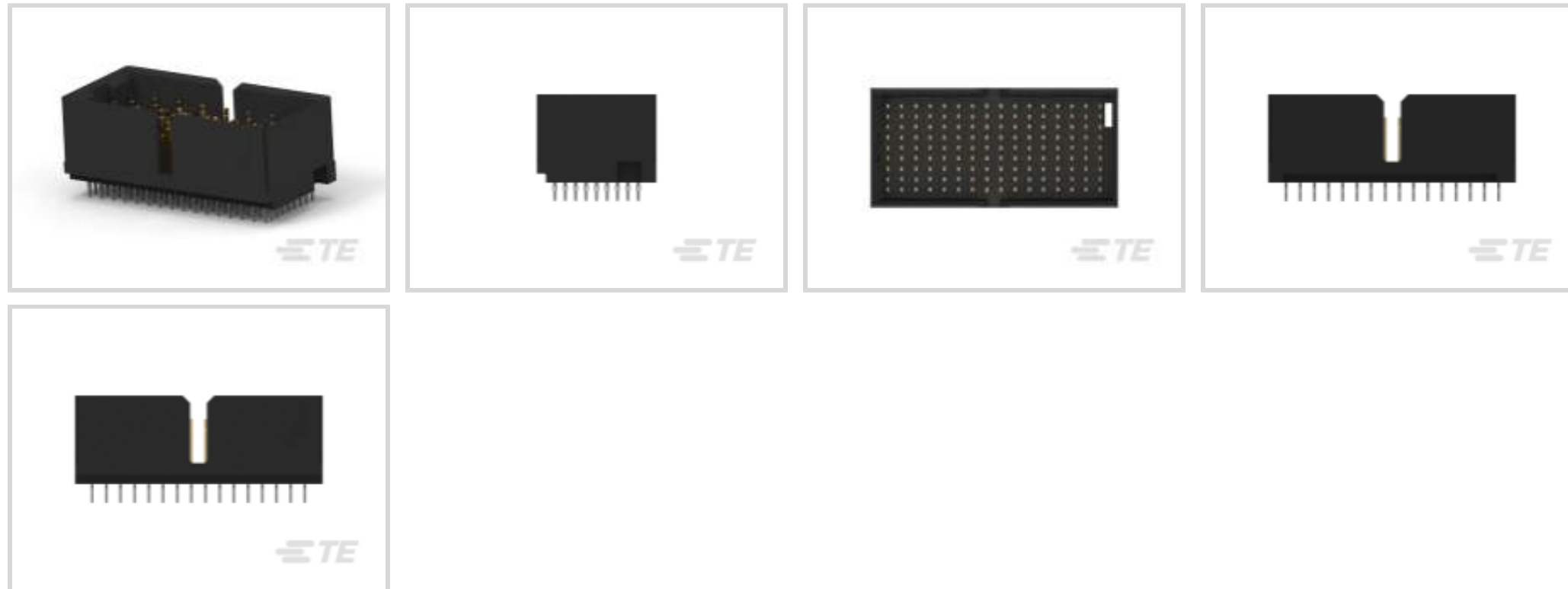
TE Internal #: 1934346-1

High Speed Backplane Connectors, 144 Position, Mating Alignment, Guide Slot Mating Alignment Type, 9 Row, 16 Column, PCB Mount Header, Z-PACK TinMan

[View on TE.com >](#)



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



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

Number of Positions: **144**

Row-to-Row Spacing: **1.4 mm [ .055 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 Header      |
| Shroud Style                      | Fully Shrouded        |
| Connector & Contact Terminates To | Printed Circuit Board |

### Configuration Features

|                            |                       |
|----------------------------|-----------------------|
| Pairs per Column           | 3                     |
| Number of Pairs            | 48                    |
| Stackable                  | No                    |
| Number of Signal Positions | 96                    |
| Backplane Architecture     | Traditional Backplane |
| Number of Positions        | 144                   |
| Number of Rows             | 9                     |
| Number of Columns          | 16                    |



|                       |          |
|-----------------------|----------|
| PCB Mount Orientation | Vertical |
|-----------------------|----------|

### Electrical Characteristics

|                   |              |
|-------------------|--------------|
| Impedance         | 100 $\Omega$ |
| Operating Voltage | 250 VAC      |

### Signal Characteristics

|   |              |
|---|--------------|
| Differential Impedance                  | 100 $\Omega$ |
| Number of Differential Pairs per Column | 3            |
| Data Rate                               | 10 Gb/s      |

### Body Features

|                       |       |
|-----------------------|-------|
| Primary Product Color | Black |
|-----------------------|-------|

### Contact Features

|   |   |
|---|---|
| Contact Mating Area Length                              | 6 mm[.236 in]                             |
| PCB Contact Termination Area Plating Material Thickness | .5 $\mu\text{m}$ [20 $\mu\text{in}$ ]     |
| Contact Type  | Pin                                       |
| Contact Mating Area Plating Material Thickness          | .76 $\mu\text{m}$ [29.92 $\mu\text{in}$ ] |
| 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              | 2.5 mm[.098 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

4

End Wall Location

Dual

Housing Material

LCP (Liquid Crystal Polymer)

Centerline (Pitch)

1.9 mm[.075 in]

### Dimensions

Connector Length

33.15 mm

Connector Height

11.8 mm

Connector Width

16 mm

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

Agency/Standard

UL

Approved Standards

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>](#)

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: JAN 2023  
(233)  
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  |

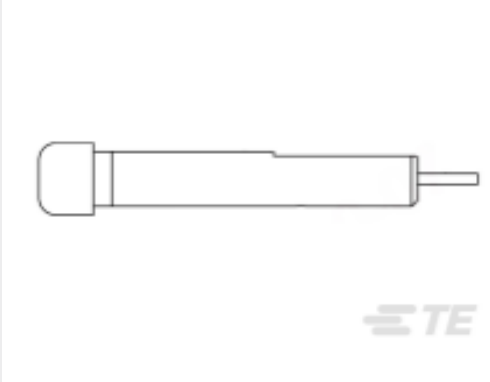
Product Compliance Disclaimer

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 # 1934229-1  
Tin Man Recept Assy 3 Pair16 Column

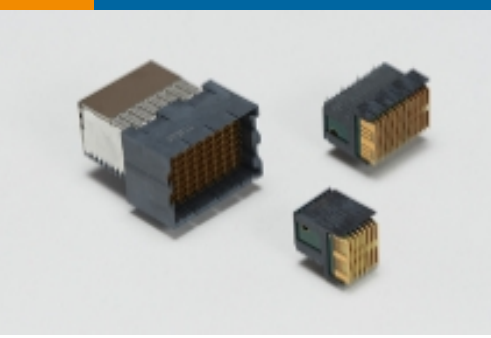


TE Part # 1976930-1  
INS TOOL, TIN MAN, 4.5




TE Part # 1976935-1  
EXT TOOL. IND CONTACTS, T.M.

### Also in the Series | Z-PACK TinMan

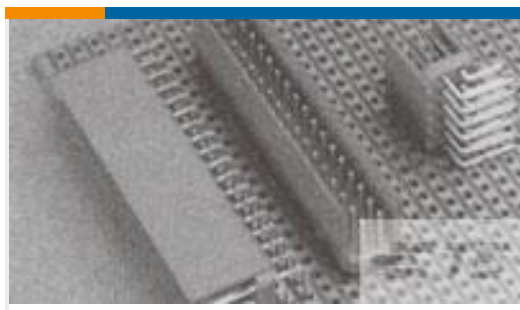


High Speed Backplane Connectors(65)



Insertion & Extraction Tools(2)

### Customers Also Bought



TE Part #281739-3  
HEADER HE14 STRAIGHT 2X3 P



TE Part #1367073-1  
20 POS SMT CONN, SFP, 15AU



TE Part #1735446-6  
2MM PITCH HPI POST HEADER,  
VERTICAL, 6P



TE Part #749087-2  
50SR SCREWLOCK KIT, FEMALE



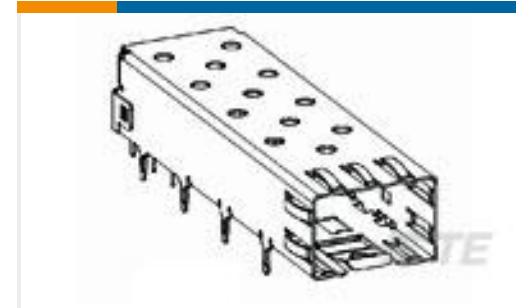
TE Part #3-5338556-1  
8/8 MOD JACK ASSY SE



TE Part #1982295-2  
ELCON MINI 2P RA HEADER, W/O  
CODING



TE Part #5223955-2  
TE UPM Ver Receptacle 3P STD Power



TE Part #2227302-1  
CAGE ASSY, PRESS FIT, SFP

## Documents

### Product Drawings

[Tin Man Header Assy 3x16 Double](#)

English

### CAD Files

Customer View Model

[ENG\\_CVM\\_1934346-1\\_B.3d\\_stp.zip](#)

English

Customer View Model

[ENG\\_CVM\\_1934346-1\\_B.2d\\_dxf.zip](#)

English

Customer View Model

[ENG\\_CVM\\_1934346-1\\_B.3d\\_igs.zip](#)

English

### 3D PDF

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

[Z-PACK TinMan High Speed High Density Backplane Connector Catalog 5-1773447-9](#)

English

### Product Specifications

[Application Specification](#)

English



**Product Environmental Compliance**

**TE Material Declaration**

English