

1934312-1 ✓ ACTIVE

Z-PACK | Z-PACK TinMan

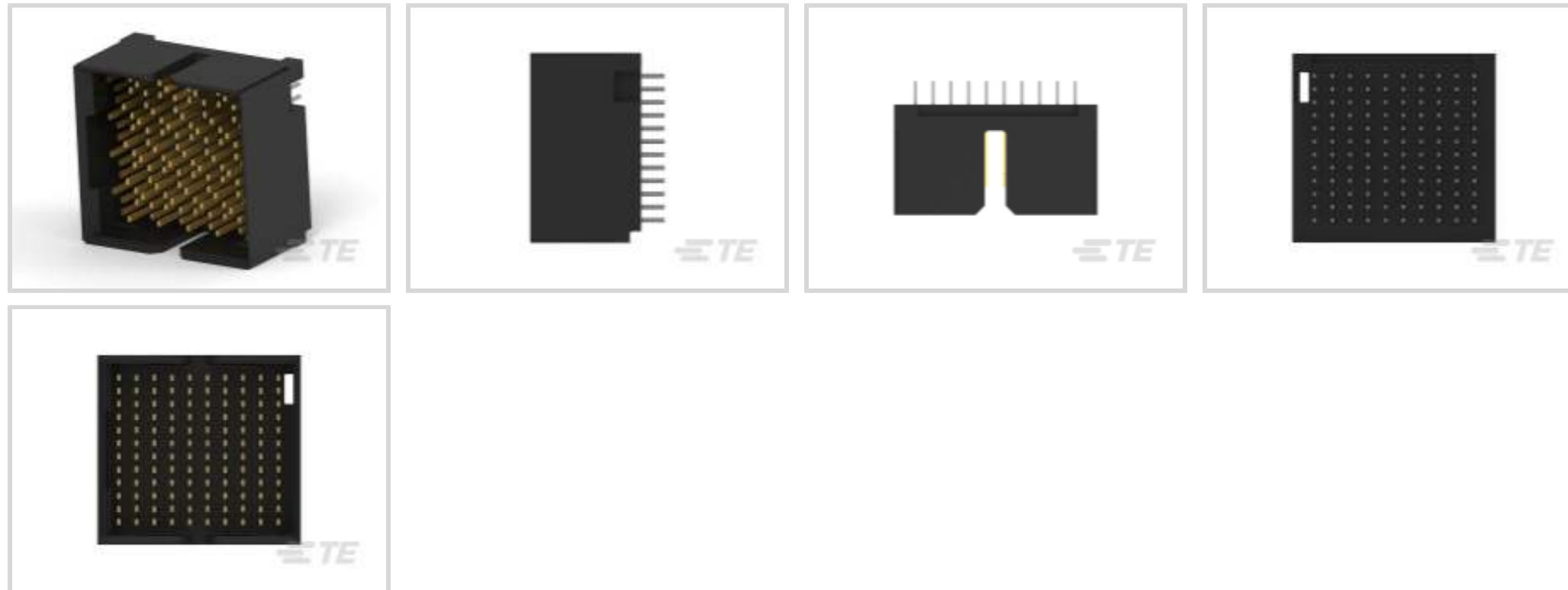
TE Internal #: 1934312-1

High Speed Backplane Connectors, 120 Position, Mating Alignment, Guide Slot Mating Alignment Type, 12 Row, 10 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: **120**

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 | 4 |
| Number of Pairs | 40 |
| Stackable | No |
| Number of Signal Positions | 80 |
| Backplane Architecture | Traditional Backplane |
| Number of Positions | 120 |
| Number of Rows | 12 |
| Number of Columns | 10 |



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

Electrical Characteristics

| | |
|-------------------|--------------|
| Impedance | 100 Ω |
| Operating Voltage | 250 VAC |

Signal Characteristics

| | |
|---|--------------|
| Differential Impedance | 100 Ω |
| Number of Differential Pairs per Column | 4 |
| 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 μm [20 μin] |
| Contact Type | Pin |
| Contact Mating Area Plating Material Thickness | .76 μm [29.92 μin] |
| 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 | 11.8 mm |
| Connector Height | 11.8 mm |
| Connector Width | 20.2 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 & 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: 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 # 1934544-1
 Tinman Vt Rcpt Assy 4pr 10col



TE Part # 1934224-1
 Tin Man Recept Assy 4 pair10 Column

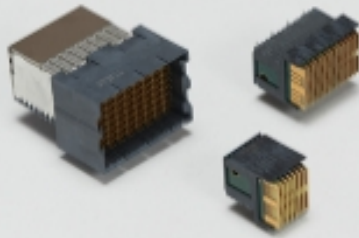


TE Part # 1976930-1
 INS TOOL, TIN MAN, 4,5




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

Also in the Series | Z-PACK TinMan



High Speed Backplane Connectors(65)

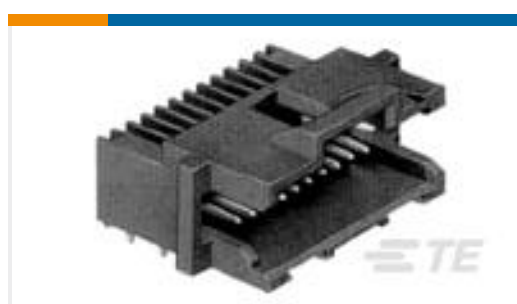


Insertion & Extraction Tools(2)

Customers Also Bought



TE Part #1888247-1
20 POS SMT CONN, SFP/SFP+, 30A



TE Part #6-104069-7
100 sys 50 hdr drra shrd sn



TE Part #1934222-1
Tin Man Recpt Assy 4Pair8Column



TE Part #1469081-2
HMZD 3PR, RECEPTACLE ASSEMBLY



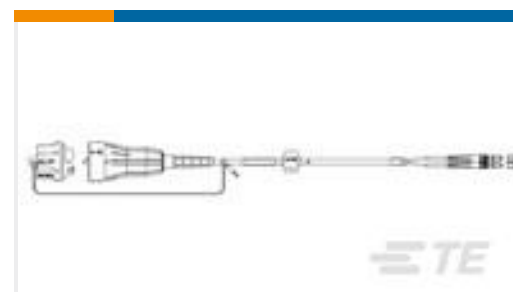
TE Part #1934306-1
Tin man Header Assy 4x8 Double



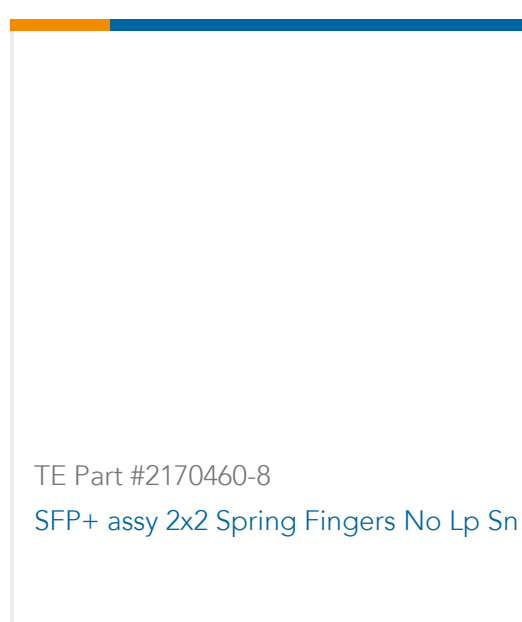
TE Part #1934225-1
Tin Man Recpt Assy 4 Pair 16 Column



TE Part #1934316-1
Tin Man Header Assy 4x16 Double



TE Part #2061432-5
FOSM LEAD 4.8mm FULLAXS LC-LC /DPX 5m



TE Part #2170460-8
SFP+ assy 2x2 Spring Fingers No Lp Sn

Documents

Product Drawings

[TinMan Header Assy 4x10Double](#)

English

CAD Files

Customer View Model

[ENG_CVM_CVM_1934312-1_A.2d_dxf.zip](#)

English

3D PDF

3D

Customer View Model

[ENG_CVM_CVM_1934312-1_A.3d_igs.zip](#)

English

Customer View Model

[ENG_CVM_CVM_1934312-1_A.3d_stp.zip](#)

English

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

Datasheets & Catalog Pages



[High Speed Backplane Connectors catalog - Z-PACK TinMan High Speed, High Density Backplane Connector](#)

English

[Stacking Connectors Quick Reference Guide \(English\)](#)

English

[Product Specifications](#)

[Application Specification](#)

English

[Product Environmental Compliance](#)

[TE Material Declaration](#)

English