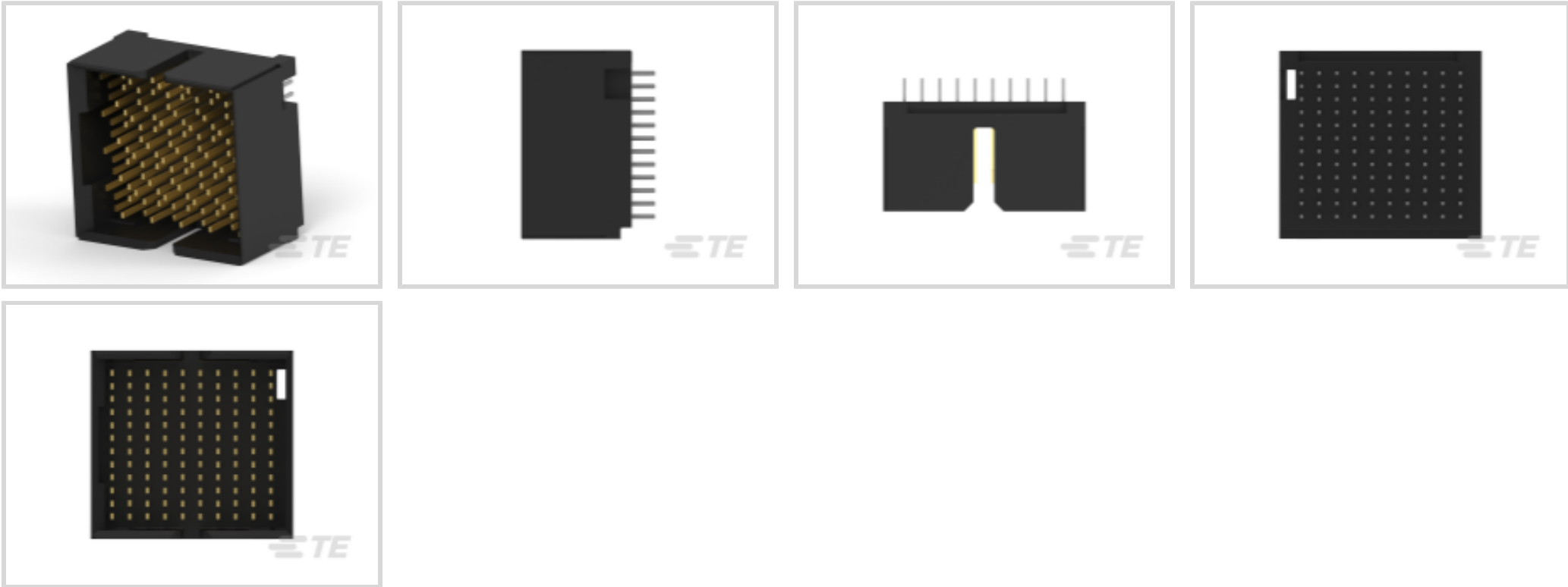




Connectors > PCB Connectors > Backplane Connectors > High Speed Backplane Connectors



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
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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
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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: 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>

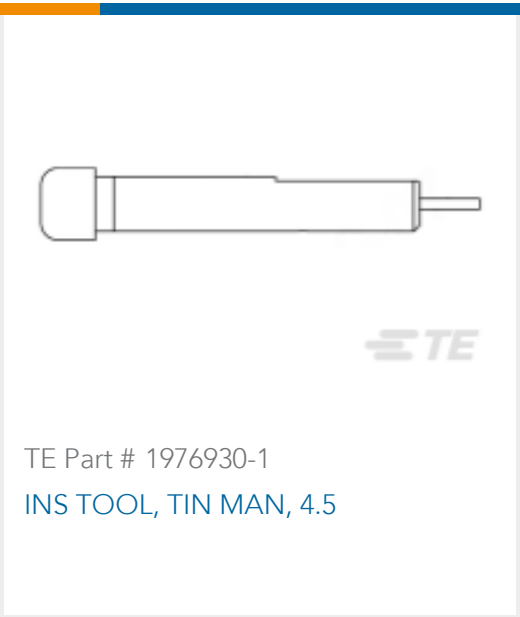
Compatible Parts



TE Part # 1934544-1
Tinman Vt Rcpt Assy 4pr 10col



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

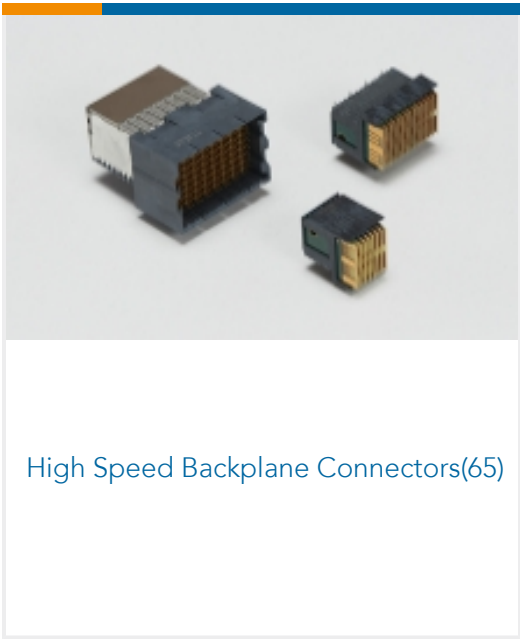


TE Part # 1976930-1
INS TOOL, TIN MAN, 4.5

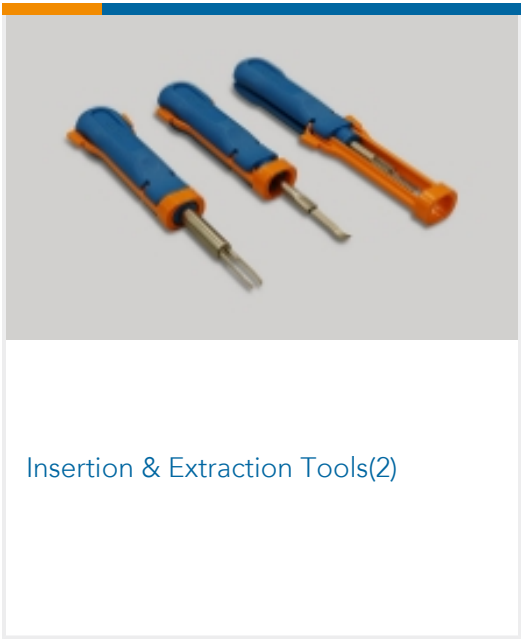


TE Part # 1976935-1
EXT TOOL. IND CONTACTS, T.M.

Also in the Series | Z-PACK TinMan



High Speed Backplane Connectors(65)



Insertion & Extraction Tools(2)

Customers Also Bought





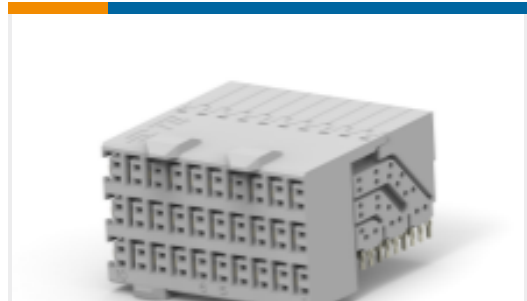
TE Part #1888247-1
20 POS SMT CONN, SFP/SFP+, 30A



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



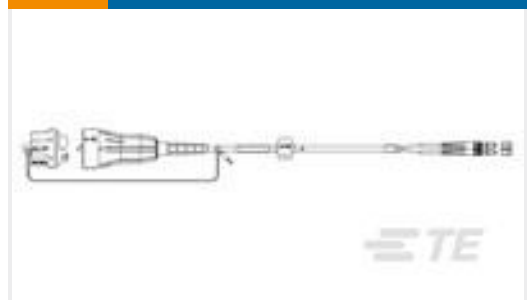
TE Part #1934306-1
Tin man Header Assy 4x8 Double



TE Part #1934225-1
Tin Man Recept 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