

2274730-1 ✓ ACTIVE

STRADA | STRADA Whisper 3.9mm

TE Internal #: 2274730-1

High Speed Backplane Connectors, Board-to-Board, 64 Position,  
Mating Alignment, Keyed Mating Alignment Type, 4 Row, 8  
Column, STRADA Whisper 3.9mm

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Connectors > PCB Connectors > Backplane Connectors > High Speed Connectors



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

Number of Positions: **64**

Row-to-Row Spacing: **3.9 mm [ .154 in ]**

Mating Alignment: **With**

Mating Alignment Type: **Keyed**

## Features

### Product Type Features

Signal Arrangement	Differential
Connector System	Board-to-Board
PCB Connector Assembly Type	PCB Mount Receptacle
Shroud Style	Unshrouded
Sealable	No
Connector & Contact Terminates To	Printed Circuit Board

### Configuration Features

Pairs per Column	4
Number of Ground Positions	72
Number of Power Positions	64
Number of Pairs	64
Stackable	No
Number of Signal Positions	64
Number of Positions	64
Number of Rows	4
Number of Columns	8
Backplane Architecture	Orthogonal, Traditional Backplane
PCB Mount Orientation	Right Angle



### Electrical Characteristics

UL Voltage Rating	80 VAC
Impedance	85 $\Omega$
Operating Voltage	80 VAC

### Signal Characteristics

Differential Impedance	85 $\Omega$
Number of Differential Pairs per Column	6
Data Rate	56 Gb/s

### Body Features

Shield Material	Copper Alloy
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### Contact Features

Contact Type	Receptacle
Contact Mating Area Plating Material	Gold Flash
Contact Shape & Form	Dual Beam
Contact Underplating Material	Palladium Nickel
PCB Contact Termination Area Plating Material	Tin
Contact Base Material	Copper Alloy
Contact Current Rating (Max)	.4 A

### Termination Features

Termination Method to Printed Circuit Board	Through Hole - Press-Fit
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### Mechanical Attachment

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

### Housing Features

Number of Shrouded Sides	0
Housing Material	LCP (Liquid Crystal Polymer)
Housing Color	Black
Centerline (Pitch)	2.5 mm[.098 in]



### Dimensions

Connector Length	21.3 mm[.852 in]
Connector Height	20.7 mm[.815 in]
PCB Thickness (Recommended)	1 mm[.039 in]
PCB Hole Diameter	1 mm[.039 in]
Row-to-Row Spacing	3.9 mm[.154 in]

### Usage Conditions

Operating Temperature Range	-55 – 105 °C[-67 – 221 °F]
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### Operation/Application

Durability Rating	200 Cycles
Circuit Application	Signal

### Industry Standards

UL File Number	E28476
Agency/Standard	UL
UL Flammability Rating	UL 94V-0

### Packaging Features

Packaging Method	Tube
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### 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 2022 (224) Candidate List Declared Against: JAN 2022 (223) Does not contain REACH SVHC
Halogen Content	BFR/CFR/PVC Free, but Br/Cl >900 ppm in other sources.
Solder Process Capability	Not applicable for solder process capability

#### Product Compliance Disclaimer

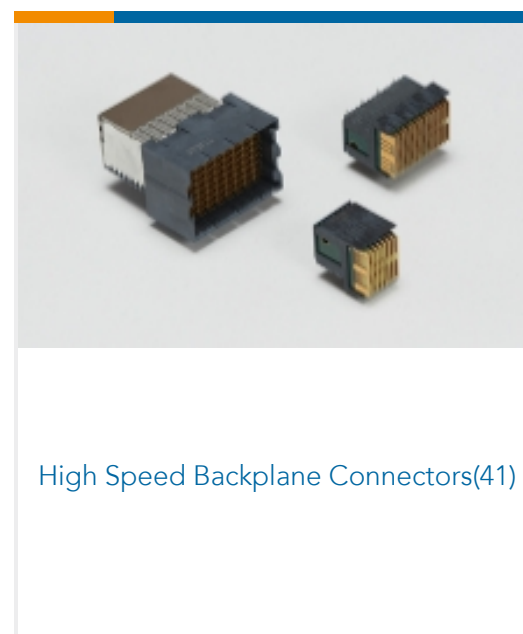
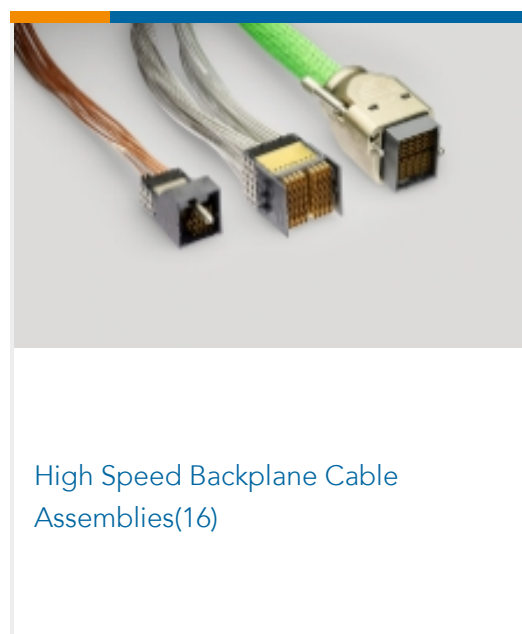
This information is provided based on reasonable inquiry of our suppliers and represents our current actual knowledge based on the information they provided. This information is subject to change. The part numbers that TE has identified as

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



## Also in the Series | STRADA Whisper 3.9mm



## Documents

### Product Drawings

SW RA RCP ASM, 8P, 8C, 85O, PIC,

English

### CAD Files

3D PDF

3D

Customer View Model

[ENG\\_CVM\\_CVM\\_2274730-1\\_A.2d\\_dxf.zip](#)

English

Customer View Model

[ENG\\_CVM\\_CVM\\_2274730-1\\_A.3d\\_igs.zip](#)

English

Customer View Model



[ENG\\_CVM\\_CVM\\_2274730-1\\_A.3d\\_stp.zip](#)

English

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

### Datasheets & Catalog Pages

[STRADA Whisper 3.9mm Pair-In-Column\(PiC\) 85 Ohm Connector Standard Channel Daughtercard Routing Guide](#)

English