

2187658-1 ✓ ACTIVE

### STRADA Whisper 3.9mm

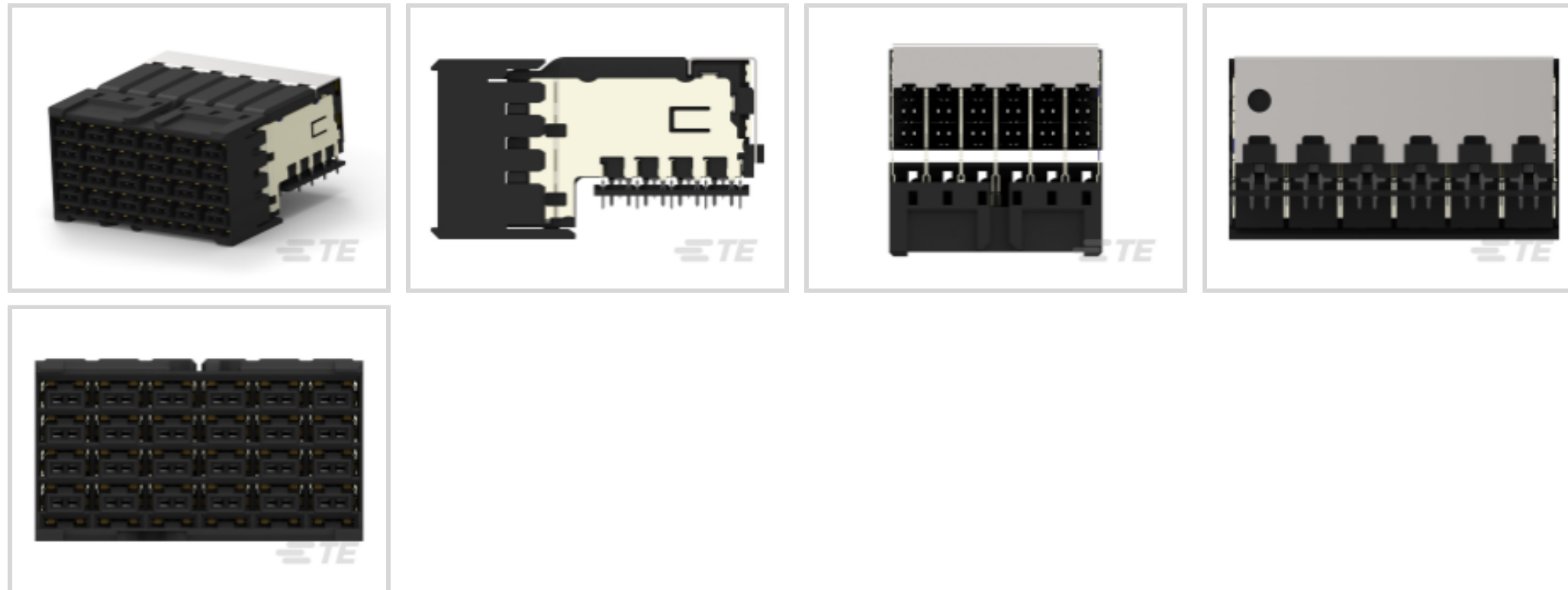
TE Internal #: 2187658-1

High Speed Backplane Connectors, 48 Position, Mating Alignment, Keyed Mating Alignment Type, 4 Row, 6 Column, STRADA Whisper 3.9mm

[View on TE.com >](#)



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



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

Number of Positions: **48**

Row-to-Row Spacing: **2.5 mm [ .098 in ]**

Mating Alignment: **With**

Mating Alignment Type: **Keyed**

## Features

### Product Type Features

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

### Configuration Features

Pairs per Column	4
Number of Ground Positions	30
Number of Power Positions	48
Number of Pairs	24
Number of Signal Positions	48
Backplane Architecture	Traditional Backplane
Number of Positions	48



Number of Rows	4
Number of Columns	6
PCB Mount Orientation	Right Angle

#### Electrical Characteristics

Impedance	100 $\Omega$
Operating Voltage	80 VAC

#### Signal Characteristics

Differential Impedance	100 $\Omega$
Number of Differential Pairs per Column	8
Data Rate	56 Gb/s

#### Body Features

Shield Material	Copper Alloy
Primary Product Color	Black

#### Contact Features

Contact Type	Receptacle
Contact Shape & Form	Dual Beam
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

Guide Hardware	Without
Mating Retention	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)
Centerline (Pitch)	3.9 mm [.154 in]



### Dimensions

Row-to-Row Spacing	2.5 mm[.098 in]
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### 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

Agency/Standard	UL
Approved Standards	UL E28476
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 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



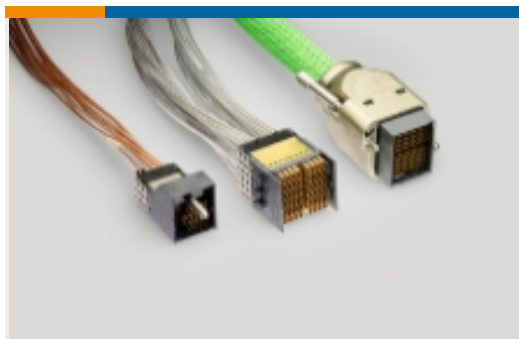
requirements for substances in articles' posted at this URL: <https://echa.europa.eu/guidance-documents/guidance-on-reach>

### Compatible Parts

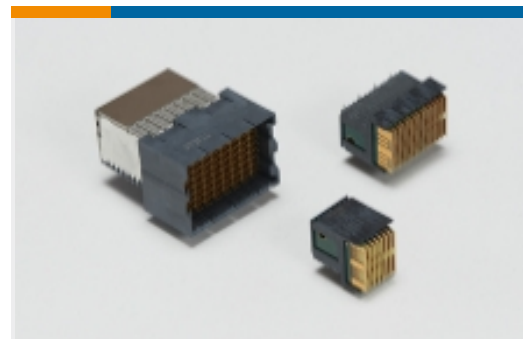


TE Part # 2187510-1  
SW PIR HDR BP, 100OHM, 4X6 OEW

### Also in the Series | STRADA Whisper 3.9mm



High Speed Backplane Cable Assemblies(16)



High Speed Backplane Connectors(41)

### Customers Also Bought



TE Part #6469001-1  
HM-ZD 4PR RECP 80P



TE Part #2065657-1  
zd Plus, 4 pair, receptacle assy



TE Part #2187194-1  
SW PIR RECT, 100OHM, 9X6SP



TE Part #2187510-1  
SW PIR HDR BP, 100OHM, 4X6 OEW



TE Part #2314790-1  
ZQSFP+ 2X1 BELLY TO BELLY CAGE&CONN

### Documents

[Product Drawings](#)  
SW PIR RECT, 100OHM, 4X6



English

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**CAD Files**

**3D PDF**

3D

**Customer View Model**

[ENG\\_CVM\\_CVM\\_2187658-1\\_A.2d\\_dxf.zip](#)

English

**Customer View Model**

[ENG\\_CVM\\_CVM\\_2187658-1\\_A.3d\\_igs.zip](#)

English

**Customer View Model**

[ENG\\_CVM\\_CVM\\_2187658-1\\_A.3d\\_stp.zip](#)

English

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

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**Datasheets & Catalog Pages**

[STRADA Whisper 3.9mm 100-Ohm Pair-In-Row Right-Angle Receptacle Connector Routing Guide](#)

English

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**Product Environmental Compliance**

[MD\\_2187658-1\\_03032016922\\_dmtec](#)

English

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