

2274518-1 ✓ ACTIVE

STRADA | STRADA Whisper 3.9mm

TE Internal #: 2274518-1

High Speed Backplane Connectors, Board-to-Board, 144 Position,
Mating Alignment, Keyed Mating Alignment Type, 12 Row, 6
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: **144**

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 Header
Shroud Style	Fully Shrouded
Sealable	No
Connector & Contact Terminates To	Printed Circuit Board

Configuration Features

Pairs per Column	12
Number of Ground Positions	78
Mating & Unmating Configuration	Make First / Break Last
Number of Pairs	72
Stackable	No
Number of Signal Positions	144
Number of Positions	144
Number of Rows	12
Number of Columns	6
Backplane Architecture	Orthogonal



PCB Mount Orientation	Right Angle
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Electrical Characteristics

UL Voltage Rating	80 VAC
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Impedance	85 Ω
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Operating Voltage	80 VAC
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Signal Characteristics

Differential Impedance	85 Ω
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Number of Differential Pairs per Column	12
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Data Rate	56 Gb/s
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Body Features

Shield Material	Copper Alloy
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Contact Features

Contact Mating Area Length	4.38 mm [.172 in]
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Contact Type	Pin
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Contact Mating Area Plating Material	Gold Flash
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Contact Shape & Form	Dual Beam
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Contact Underplating Material	Palladium Nickel
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PCB Contact Termination Area Plating Material	Tin
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Contact Base Material	Copper Alloy
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Contact Current Rating (Max)	.4 A
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Termination Features

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

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

Number of Shrouded Sides	4
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Housing Material	LCP (Liquid Crystal Polymer)
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Housing Color	Black
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Centerline (Pitch)	3.9 mm[.154 in]
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Dimensions

PCB Thickness (Recommended)	1 mm[.039 in]
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PCB Hole Diameter	1 mm[.039 in]
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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
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Circuit Application	Signal
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Industry Standards

UL Rating	Recognized
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UL File Number	E28476
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Agency/Standard	UL
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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
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EU ELV Directive 2000/53/EC	Compliant
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China RoHS 2 Directive MIIT Order No 32, 2016	No Restricted Materials Above Threshold
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EU REACH Regulation (EC) No. 1907/2006	Current ECHA Candidate List: JUNE 2022 (224) Candidate List Declared Against: JAN 2021 (211) Does not contain REACH SVHC
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Halogen Content	Low Halogen - Br, Cl, F, I < 900 ppm per homogenous material. Also BFR/CFR/PVC Free
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Solder Process Capability	Not applicable for solder process capability
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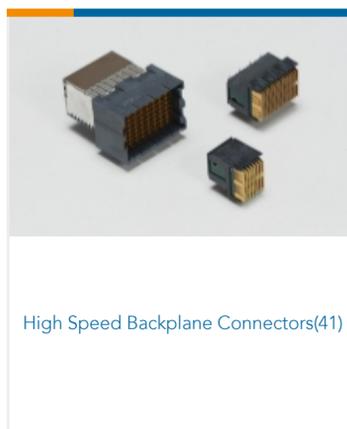
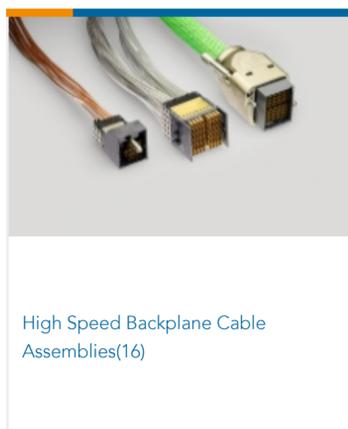
Product Compliance Disclaimer

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

CAD Files

3D PDF

3D

Customer View Model

[ENG_CVM_CVM_2274518-1_A.2d_dxf.zip](#)

English

Customer View Model

[ENG_CVM_CVM_2274518-1_A.3d_igs.zip](#)

English

Customer View Model

[ENG_CVM_CVM_2274518-1_A.3d_stp.zip](#)

English

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

Datasheets & Catalog Pages

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

English