

2198174-1 ✓ ACTIVE

STRADA | STRADA Whisper 3.9mm

TE Internal #: 2198174-1

144 Position High Speed Backplane Connector, 6 Row, 12 Column,
PCB Mount Receptacle, Right Angle, Unshrouded, STRADA
Whisper 3.9mm

[View on TE.com >](#)



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



Number of Positions: **144**

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

Mating Alignment: **With**

Mating Alignment Type: **Keyed**

Number of Rows: **6**

Features

Product Type Features

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

Configuration Features

Number of Pairs	72
Number of Ground Positions	84
Number of Signal Positions	144
Backplane Architecture	Orthogonal, Traditional Backplane
Stackable	No
Pairs per Column	6
Number of Positions	144
Number of Rows	6
Number of Columns	12
PCB Mount Orientation	Right Angle

Electrical Characteristics



Operating Voltage	80 VDC
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Impedance	100 Ω
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Signal Characteristics

Data Rate	56 Gb/s
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Differential Impedance	100 Ω
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Number of Differential Pairs per Column	8
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Body Features

Shield Material	Copper Alloy
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Primary Product Color	Black
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Contact Features

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

Termination Method to PCB	Through Hole - Press-Fit
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Mechanical Attachment

Guide Hardware	Without
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PCB Mount Retention	With
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Mating Retention	Without
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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	0
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Housing Material	Liquid Crystal Polymer (LCP)
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Centerline (Pitch)	2.5 mm[.098 in]
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Dimensions

PCB Thickness (Recommended)	1 mm[.039 in]
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PCB Hole Diameter	1 mm[.039 in]
Connector Height	26.5 mm[1.043 in]
Connector Length	34.05 mm[1.341 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

Compatible With Agency/Standards Products	UL
UL Flammability Rating	UL 94V-0
Compatible With Approved Standards Products	UL E28476

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	有害物质含量符合标准要求 No Restricted Substance(s) Above Threshold
EU REACH Regulation (EC) No. 1907/2006	Current ECHA Candidate List: JUNE 2025 (250) Candidate List Declared Against: JUNE 2025 (250) Does not contain REACH SVHC
Halogen Content	Low Halogen - Br, Cl, F < 900 ppm per homogenous material. Also BFR/CFR/PVC Free
Solder Process Capability	Not reviewed 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

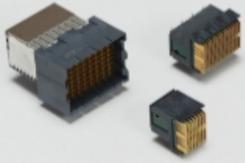


TE Part # 2274518-1
SW PIR/DPO RA ASSY 12P6C 100
OHM 90 GR



TE Part # 2198200-1
Headr Assy, 6P12C, Ortho, SW,
30PdNi, Sn

Also in the Series | STRADA Whisper 3.9mm



High Speed Backplane Connectors(41)

Customers Also Bought



TE Part #CAT-D48-ST273
DEUTSCH Connector Solid Contacts



TE Part #DT06-2S
PLG, 2P, GRY, N



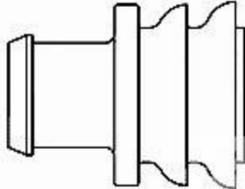
TE Part #DT04-2P
REC, 2P, GRY, N



TE Part #CAT-D487-W416
Wedgelocks: DEUTSCH DT



TE Part #114017-ZZ
SEALING PLUG, SIZE 12/16, WHT



TE Part #281934-2
SINGLE WIRE SEAL



TE Part #CAT-AM71-CH8172
AMP SUPERSEAL 1.5MM,
CONNECTOR HOUSING



Documents

Product Drawings

[SWO, Recep Assy, 6P12C, 30PdNi, Sn](#)

English

CAD Files

[3D PDF](#)

3D

Customer View Model

[ENG_CVM_CVM_2198174-1_A.2d_dxf.zip](#)

English

Customer View Model

[ENG_CVM_CVM_2198174-1_A.3d_igs.zip](#)

English

Customer View Model

[ENG_CVM_CVM_2198174-1_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\(PiC\) 100 Ohm Connector Routing Guide](#)

English

Product Specifications

[Application Specification](#)

English

[Application Specification](#)

English