



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



EU RoHS Compliance: **Compliant**

EU ELV Compliance: **Compliant**

Number of Positions: **96**

Row-to-Row Spacing: **1.25 mm [.05 in]**

Mating Alignment: **With**

Features

Other

EU RoHS Compliance	Compliant
EU ELV Compliance	Compliant

Product Type Features

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

Configuration Features

Number of Pairs	48
Number of Signal Positions	96
Stackable	Yes
Pairs per Column	8
Number of Positions	96
Number of Rows	8
Number of Columns	12
PCB Mount Orientation	Right Angle

Electrical Characteristics



Operating Voltage	30 VAC
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Impedance	30 Ω
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Signal Characteristics

Data Rate	20 Gb/s
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Body Features

Shield Material	Copper Alloy
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Primary Product Color	Natural
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Contact Features

Contact Underplating Material	Nickel
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Contact Shape & Form	Dual Beam
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PCB Contact Termination Area Plating Material Thickness	.5 – 2.5 μm[20 – 100 μin]
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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)	.5 A
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Termination Features

Termination Method to PCB	Through Hole - Press-Fit
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Termination Post & Tail Length	1.6 mm[.681 in]
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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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PCB Mount Alignment	With
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Mating Alignment	With
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Mating Alignment Type	Polarization
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Housing Features

Number of Shrouded Sides	0
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End Wall Location	None
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Housing Material	LCP (Liquid Crystal Polymer)
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Centerline (Pitch)	1.45 mm[.057 in]
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Dimensions

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PCB Thickness (Recommended)	1.2 mm
Connector Width	17.3 mm[.681 in]
PCB Hole Diameter	.4 mm[.016 in]
Connector Height	12.51 mm[.493 in]
Connector Length	24.5 mm[.965 in]
Row-to-Row Spacing	1.25 mm[.05 in]

Usage Conditions

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

Durability Rating	250 Cycles
Circuit Application	Signal

Industry Standards

UL Flammability Rating	UL 94V-0
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Packaging Features

Packaging Method	Tray
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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 2024 (241) Candidate List Declared Against: JUNE 2024 (241) 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 # 1982738-2
Female Connector IEC



TE Part # 2042088-2
Vert.Male, IEC L2



TE Part # 2042162-2
Right Angle Male Connector



TE Part # 2042139-2
RA Male Connector, IEC L3

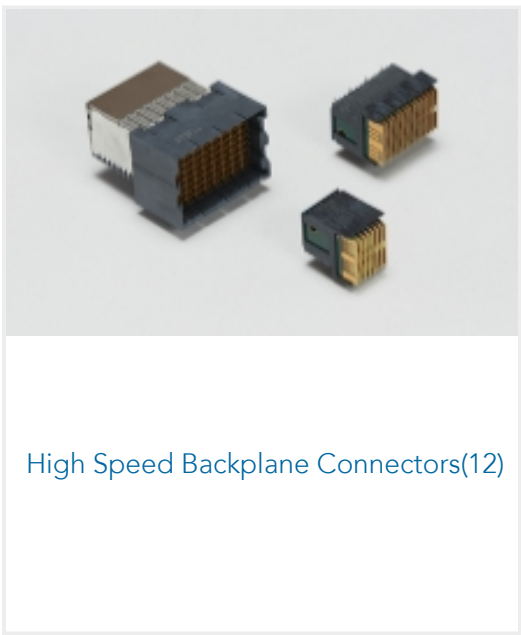


TE Part # 1551012-2
Vert.Male, IEC L3

Also in the Series | Z-PACK Slim UHD



Hard Metric Backplane Connectors(2)



High Speed Backplane Connectors(12)

Customers Also Bought



TE Part #T4141512051-000
M12 Panel Mount PCB



TE Part #5747843-3
37 MSFL PLUG RA 318 (IN,FM,BL)



TE Part #5788801-1
25 HTMSFL ASSY RA 318 (SL,BL)



TE Part #5554858-1
HDW KIT,V/MTG PREASSY SHLD



Documents

Product Drawings

Female Connector

English

CAD Files

3D PDF

3D

Customer View Model

ENG_CVM_CVM_1857657-2_A.2d_dxf.zip

English

Customer View Model

ENG_CVM_CVM_1857657-2_A.3d_igs.zip

English

Customer View Model

ENG_CVM_CVM_1857657-2_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 Slim UHD Connector

English

Z-Pack Slim UHD Connector Platform

English

Agency Approvals

UL Report

English