



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



Number of Positions: 96
Row-to-Row Spacing: 1.25 mm [.05 in]
Mating Alignment: With
Mating Alignment Type: Polarization
Number of Rows: 8

Features

Product Type Features

| | |
|-----------------------------------|-----------------------|
| Connector & Contact Terminates To | Printed Circuit Board |
| Connector System | Board-to-Board |
| Backplane Module Type | Center |
| PCB Connector 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 |
| Impedance | 30 Ω |

Signal Characteristics

| |
|--|
| |
|--|



| | |
|-----------|---------|
| Data Rate | 20 Gb/s |
|-----------|---------|

Body Features

| | |
|-----------------------|--------------|
| Shield Material | Copper Alloy |
| Primary Product Color | Natural |

Contact Features

| | |
|---------------------------------------------------------|---------------------------|
| Contact Underplating Material | Nickel |
| PCB Contact Termination Area Plating Material Thickness | .5 – 2.5 µm[20 – 100 µin] |
| Contact Shape & Form | Dual Beam |
| Contact Base Material | Copper Alloy |
| PCB Contact Termination Area Plating Material | Tin |
| Contact Type | Receptacle |
| Contact Current Rating (Max) | .5 A |

Termination Features

| | |
|--------------------------------|--------------------------|
| Termination Method to PCB | Through Hole - Press-Fit |
| Termination Post & Tail Length | 1.6 mm[.681 in] |

Mechanical Attachment

| | |
|--------------------------|-----------------------|
| Guide Hardware | Without |
| PCB Mount Retention | With |
| Mating Retention | Without |
| PCB Mount Retention Type | Action/Compliant Tail |
| PCB Mount Alignment | With |
| Mating Alignment | With |
| Mating Alignment Type | Polarization |

Housing Features

| | |
|--------------------------|------------------|
| Number of Shrouded Sides | 0 |
| End Wall Location | None |
| Housing Material | LCP |
| Centerline (Pitch) | 1.45 mm[.057 in] |

Dimensions

| | |
|-----------------------------|------------------|
| 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] |
|-----------------------------|----------------------------|

Operation/Application

| | |
|---------------------|------------|
| Durability Rating | 250 Cycles |
| Circuit Application | Signal |

Industry Standards

| | |
|------------------------|----------|
| UL Flammability Rating | UL 94V-0 |
|------------------------|----------|

Packaging Features

| | |
|------------------|------|
| Packaging Method | Tray |
|------------------|------|

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: JAN 2025 (247) Candidate List Declared Against: JAN 2025 (247) 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 # 2042162-2
Right Angle Male Connector




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



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



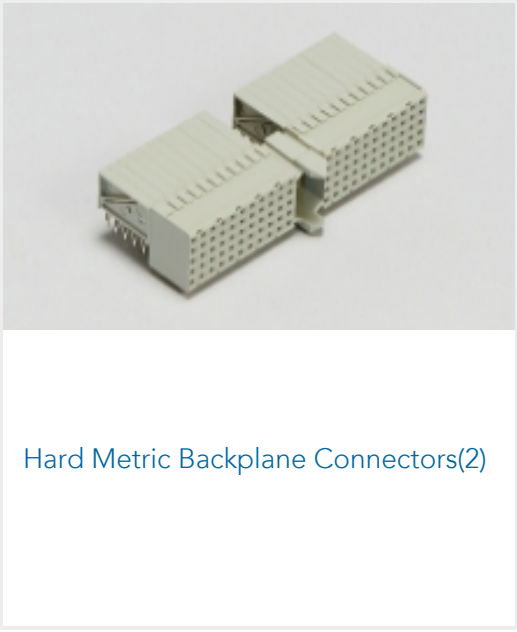
TE Part # 1551012-2
Vert.Male, IEC L3



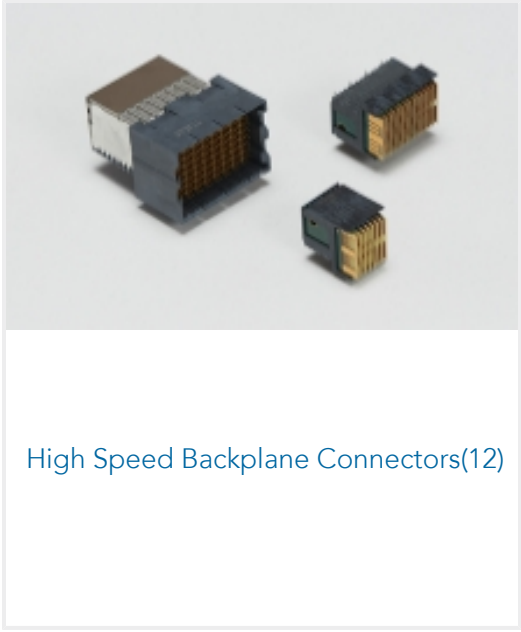
TE Part # 1982738-2
Female Connector IEC

Also in the Series

Z-PACK Slim UHD



Hard Metric Backplane Connectors(2)

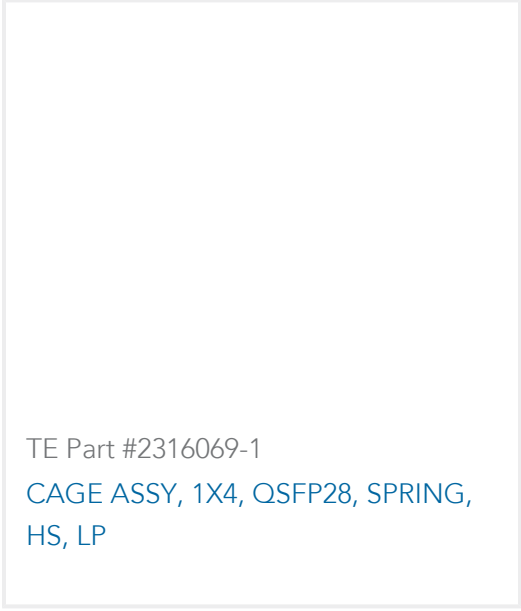


High Speed Backplane Connectors(12)

Customers Also Bought



TE Part #2170614-1
cage assy, 20 press fit, sfp w



TE Part #2316069-1
CAGE ASSY, 1X4, QSFP28, SPRING, HS, LP




TE Part #1318126-3
DYNAMIC D-2100 V-HDR ASSY 12P Z



TE Part #2170790-3
CAGE ASSY, 1X4, QSFP28, SPRING, HS, LP





TE Part #5-147381-3
30 50/50 HDR SMT.250 W/HD SN

TE Part #2100870-1
C/A, SFP+, 1M 30AWG, JUNIPER

TE Part #1-2356555-3
CAGE ASSEMBLY, QSFP28 1X1, OP

TE Part #2-2354329-1
CAGE ASSY, QSFP28, 1X2,ZIP HSK, LP

TE Part #2-2356555-3
CAGE ASSEMBLY, QSFP28 1X1, OP

TE Part #2354329-1
CAGE ASSEMBLY, QSFP28, 1X2,ZIP HSK

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

1857657-2

96 Position High Speed Backplane Connector, 8 Row, 12 Column, PCB Mount
Receptacle, Right Angle, Unshrouded, Z-PACK Slim UHD

