

5120841-1 ✓ ACTIVE

Z-PACK | Z-PACK HS3

TE Internal #: 5120841-1

60 Position High Speed Backplane Connector, 6 Row, 10 Column,
PCB Mount Header, Vertical, Partially Shrouded, 2.5 mm [.098 in]
Centerline, Z-PACK HS3

[View on TE.com >](#)



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



Number of Positions: **60**

Row-to-Row Spacing: **3.5 mm [.138 in]**

Mating Alignment: **With**

Mating Alignment Type: **Polarization**

Number of Rows: **6**

Features

Electrical Characteristics

| | |
|-------------------|---------|
| Operating Voltage | 250 VAC |
|-------------------|---------|

Signal Characteristics

| | |
|---|---|
| Number of Differential Pairs per Column | 3 |
|---|---|

Industry Standards

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

Termination Features

| | |
|--------------------------------|--------------------------|
| Termination Method to PCB | Through Hole - Press-Fit |
| Termination Post & Tail Length | 3.7 mm[.146 in] |

Body Features

| | |
|-----------------------|-----------|
| Guide Pin Style | Compliant |
| Primary Product Color | Black |

Packaging Features

| | |
|------------------|------|
| Packaging Method | Tube |
|------------------|------|

Contact Features

| | |
|--|----------------------------|
| Contact Underplating Material | Nickel |
| PCB Contact Termination Area Plating Material Finish | Matte |
| Contact Mating Area Plating Material Thickness | .5 μ m[19.68 μ in] |



| | |
|---|------------------------------------|
| Contact Shape & Form | Dual Beam |
| Contact Mating Area Plating Material | Tin |
| Contact Mating Area Length | 3.7 mm, 1.8 mm [.071 in] [.146 in] |
| Contact Base Material | Phosphor Bronze |
| PCB Contact Termination Area Plating Material | Tin |
| Contact Type | Pin |
| Contact Current Rating (Max) | 1.15 A |

Housing Features

| | |
|--------------------------|------------------|
| Number of Shrouded Sides | 2 |
| Housing Material | Polyester - GF |
| Centerline (Pitch) | 2.5 mm [.098 in] |

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 Header |
| Shroud Style | Partially Shrouded |

Mechanical Attachment

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

Dimensions

| | |
|-----------------------------|--------------------|
| Connector Width | 17 mm [.699 in] |
| PCB Thickness (Recommended) | 1.4 mm [.055 in] |
| PCB Hole Diameter | .05 mm |
| Connector Height | 11.8 mm [.464 in] |
| Connector Length | 24.91 mm [.981 in] |
| Row-to-Row Spacing | 3.5 mm [.138 in] |



Configuration Features

| | |
|----------------------------|-----------------------|
| Number of Signal Positions | 60 |
| Backplane Architecture | Traditional Backplane |
| Stackable | No |
| Number of Positions | 60 |
| Number of Rows | 6 |
| Number of Columns | 10 |
| PCB Mount Orientation | Vertical |

Usage Conditions

| | |
|-----------------------------|----------------------------|
| Operating Temperature Range | -65 – 105 °C[-85 – 221 °F] |
|-----------------------------|----------------------------|

Operation/Application

| | |
|---------------------|--------|
| Circuit Application | Signal |
|---------------------|--------|

Other

| | |
|--------------------|-----------|
| EU RoHS Compliance | Compliant |
| EU ELV Compliance | Compliant |

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

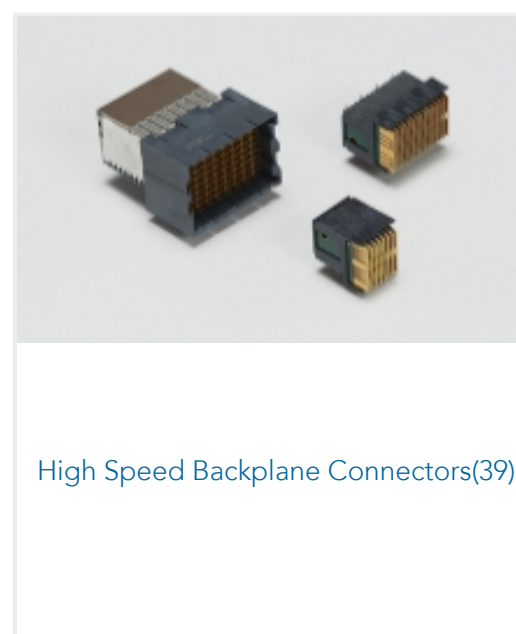
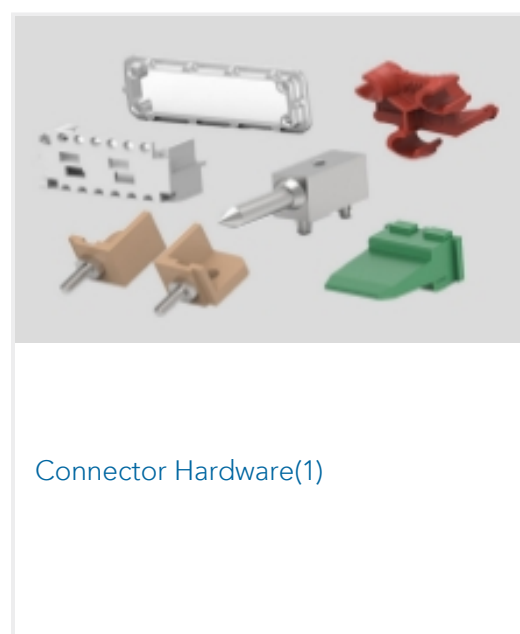
This information is provided based on reasonable inquiry of our suppliers and represents our current actual knowledge based on the information they provided. This information is subject to change. The part numbers that TE has identified as EU RoHS compliant have a maximum concentration of 0.1% by weight 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>

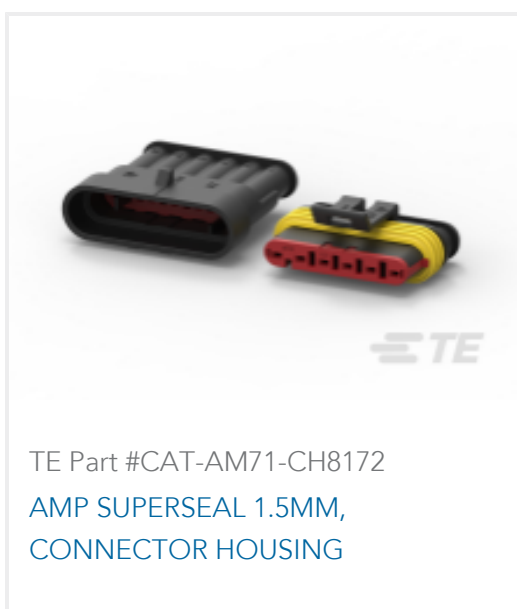
Compatible Parts



Also in the Series | Z-PACK HS3



Customers Also Bought





Documents

Product Drawings

[Z-PACK HS3 HDR ASSY 60P](#)

English

CAD Files

[3D PDF](#)

3D

Customer View Model

[ENG_CVM_CVM_5120841-1_B.2d_dxf.zip](#)

English

Customer View Model

[ENG_CVM_CVM_5120841-1_B.3d_igs.zip](#)

English

Customer View Model

[ENG_CVM_CVM_5120841-1_B.3d_stp.zip](#)

English

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Product Specifications

[Application Specification](#)

English

Agency Approvals

[UL Report](#)

English