

6469169-1 ✓ ACTIVE

Z-PACK | Z-PACK HM-Zd

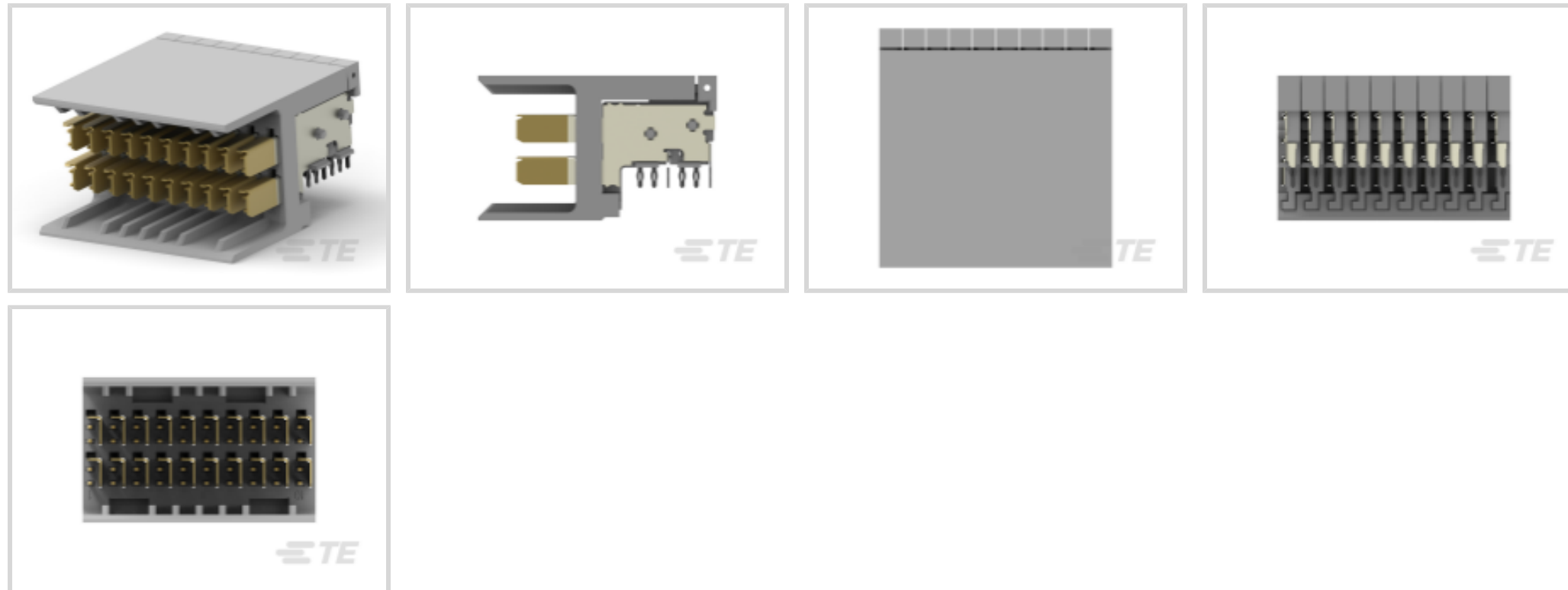
TE Internal #: 6469169-1

High Speed Backplane Connectors, Board-to-Board, 40 Position,
Mating Alignment, Guide Lugs Mating Alignment Type, 4 Row, 10
Column, Z-PACK HM-Zd

[View on TE.com >](#)



Connectors > PCB Connectors > Backplane Connectors > High Speed Connectors



Connector System: **Board-to-Board**

Number of Positions: **40**

Row-to-Row Spacing: **1.5 mm [.059 in]**

Mating Alignment: **With**

Mating Alignment Type: **Guide Lugs**

Features

Product Type Features

| | |
|-----------------------------------|-----------------------|
| Connector System | Board-to-Board |
| PCB Connector Assembly Type | PCB Mount Header |
| Shroud Style | Partially Shrouded |
| Sealable | No |
| Connector & Contact Terminates To | Printed Circuit Board |

Configuration Features

| | |
|----------------------------|-----------------|
| Pairs per Column | 2 |
| Number of Ground Positions | 20 |
| Card Slot Centerline | 20.3 mm [.8 in] |
| Number of Pairs | 20 |
| Number of Signal Positions | 40 |
| Number of Positions | 40 |
| Number of Rows | 4 |
| Number of Columns | 10 |



| | |
|-----------------------|-------------|
| PCB Mount Orientation | Right Angle |
|-----------------------|-------------|

| | |
|----------------|----------|
| Guide Location | Unguided |
|----------------|----------|

Electrical Characteristics

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

Signal Characteristics

| | |
|-----------|----------|
| Data Rate | ≤12 Gb/s |
|-----------|----------|

Body Features

| | |
|-----------------|-----------------|
| Shield Material | Phosphor Bronze |
|-----------------|-----------------|

Contact Features

| | |
|----------------|--------|
| Contact Layout | Matrix |
|----------------|--------|

| | |
|--------------|-----|
| Contact Type | Pin |
|--------------|-----|

| | |
|--|----------------|
| Contact Mating Area Plating Material Thickness | .76 μm[30 μin] |
|--|----------------|

| | |
|--------------------------------------|------|
| Contact Mating Area Plating Material | Gold |
|--------------------------------------|------|

| | |
|-----------------------|-----------------|
| Contact Base Material | Phosphor Bronze |
|-----------------------|-----------------|

| | |
|------------------------------|------|
| Contact Current Rating (Max) | .7 A |
|------------------------------|------|

Termination Features

| | |
|--------------------------------|-----------------|
| Termination Post & Tail Length | 2.2 mm[.086 in] |
|--------------------------------|-----------------|

| | |
|---|--------------------------|
| Termination Method to Printed Circuit Board | Through Hole - Press-Fit |
|---|--------------------------|

Mechanical Attachment

| | |
|------------------|------|
| Mating Alignment | With |
|------------------|------|

| | |
|-----------------------|------------|
| Mating Alignment Type | Guide Lugs |
|-----------------------|------------|

| | |
|-------------------------|-------------|
| Connector Mounting Type | Board Mount |
|-------------------------|-------------|

Housing Features

| | |
|------------------|----------------|
| Housing Material | Polyester - GF |
|------------------|----------------|

| | |
|---------------|------|
| Housing Color | Gray |
|---------------|------|

| | |
|--------------------|-----------------|
| Centerline (Pitch) | 2.5 mm[.098 in] |
|--------------------|-----------------|

Dimensions

| | |
|------------------|-----------------|
| Connector Length | 24.9 mm[.98 in] |
|------------------|-----------------|

| | |
|------------------|-------------------|
| Connector Height | 15.48 mm[.609 in] |
|------------------|-------------------|

| | |
|-----------------|--------------------|
| Connector Width | 25.55 mm[1.005 in] |
|-----------------|--------------------|

| | |
|--------------------|-----------------|
| Row-to-Row Spacing | 1.5 mm[.059 in] |
|--------------------|-----------------|

Usage Conditions



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

Operation/Application

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

Industry Standards

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

Packaging Features

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

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 2022 (224) Candidate List Declared Against: JAN 2022 (223) SVHC > Threshold: Not Yet Reviewed |
| Halogen Content | Not Low Halogen - contains Br or Cl > 900 ppm. |
| 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 # 1469028-1
HM-ZD 2PR RECP 40P



TE Part # 2065769-1
Zd Plus 2 pair receptacle assy

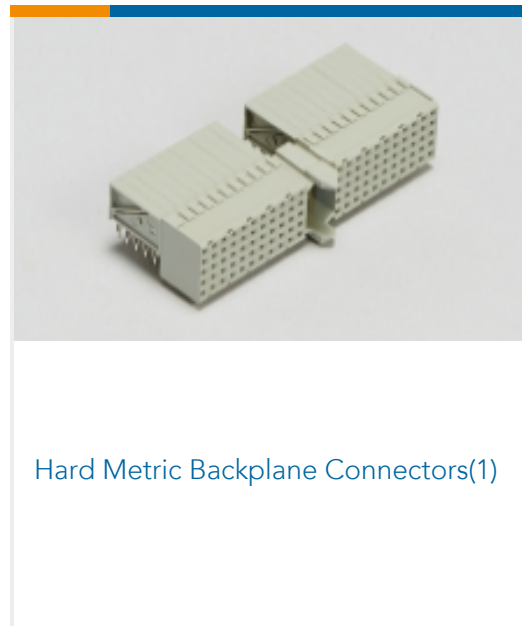


TE Part # 6469028-1
HM-ZD 2PR RECP 40P

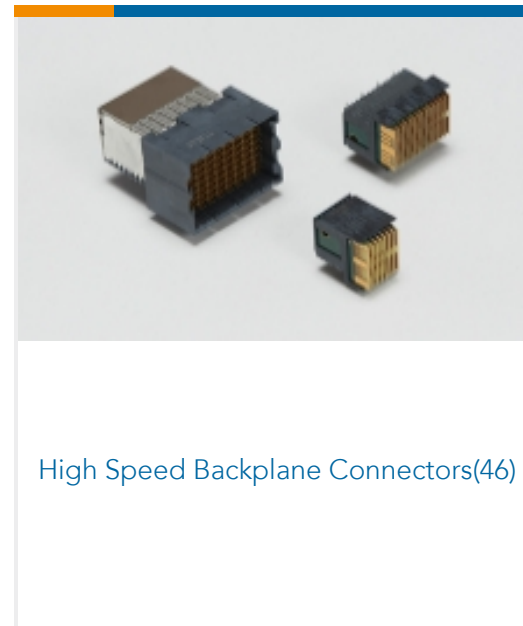


TE Part # 91377-1
SEATING TOOL

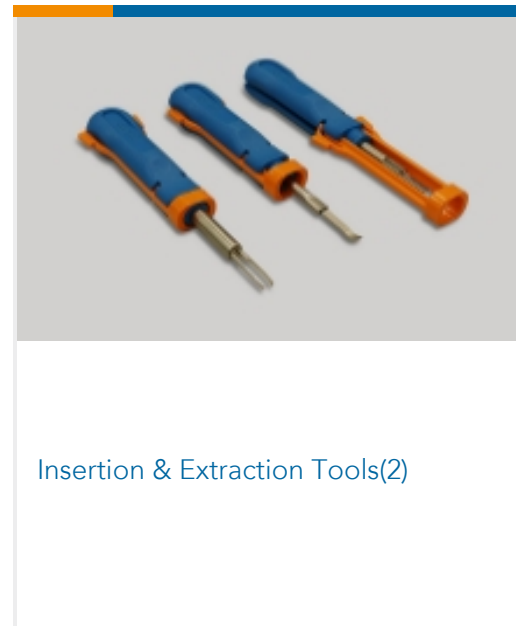
Also in the Series | Z-PACK HM-Zd



Hard Metric Backplane Connectors(1)



High Speed Backplane Connectors(46)



Insertion & Extraction Tools(2)

Customers Also Bought



TE Part #2007492-8
SFP+assy2x1 Spring Fingers No Lp Sn



TE Part #5100147-1
Z-PACK/A RAF 110P



TE Part #535032-4
09% EURO TYPE C RECEPT AP ASSY



TE Part #1-5353190-0
.6FHR04H,140,S,GIG,08/Sn,TR,NSYes



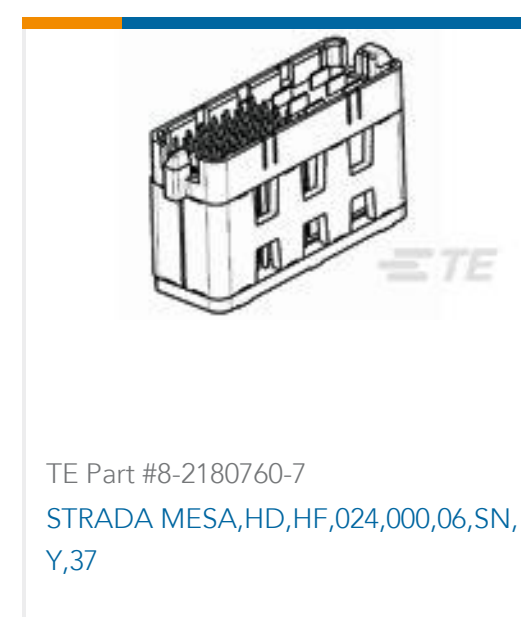
TE Part #63659-1
MAG-MATE POST 27-23 016TPCUBR



TE Part #2176308-9
RP 1E 0.1W 162K 0.1% 25PPM 5K RL



TE Part #2227671-2
zQSFP+ STACKED RECEPTACLE ASSEMBLY 2X3



TE Part #8-2180760-7
STRADA MESA,HD,HF,024,000,06,SN, Y,37

Documents

Product Drawings

[HMZD 2PR RA HDR 40P](#)

English

CAD Files

[Customer View Model](#)

[ENG_CVM_CVM_6469169-1_A.2d_dxf.zip](#)



English

[3D PDF](#)

3D

Customer View Model

[ENG_CVM_CVM_6469169-1_A.3d_igs.zip](#)

English

Customer View Model

[ENG_CVM_CVM_6469169-1_A.3d_stp.zip](#)

English

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

Datasheets & Catalog Pages

[High Speed Backplane Connectors catalog - Z-PACK HM-Zd Connector](#)

English

Product Specifications

[Application Specification](#)

English

Product Environmental Compliance

[MD_6469169-1_09042017327_dmtec](#)

English

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