

5646446-1 ✓ ACTIVE

Z-PACK | Z-PACK 2mm HM

TE Internal #: 5646446-1

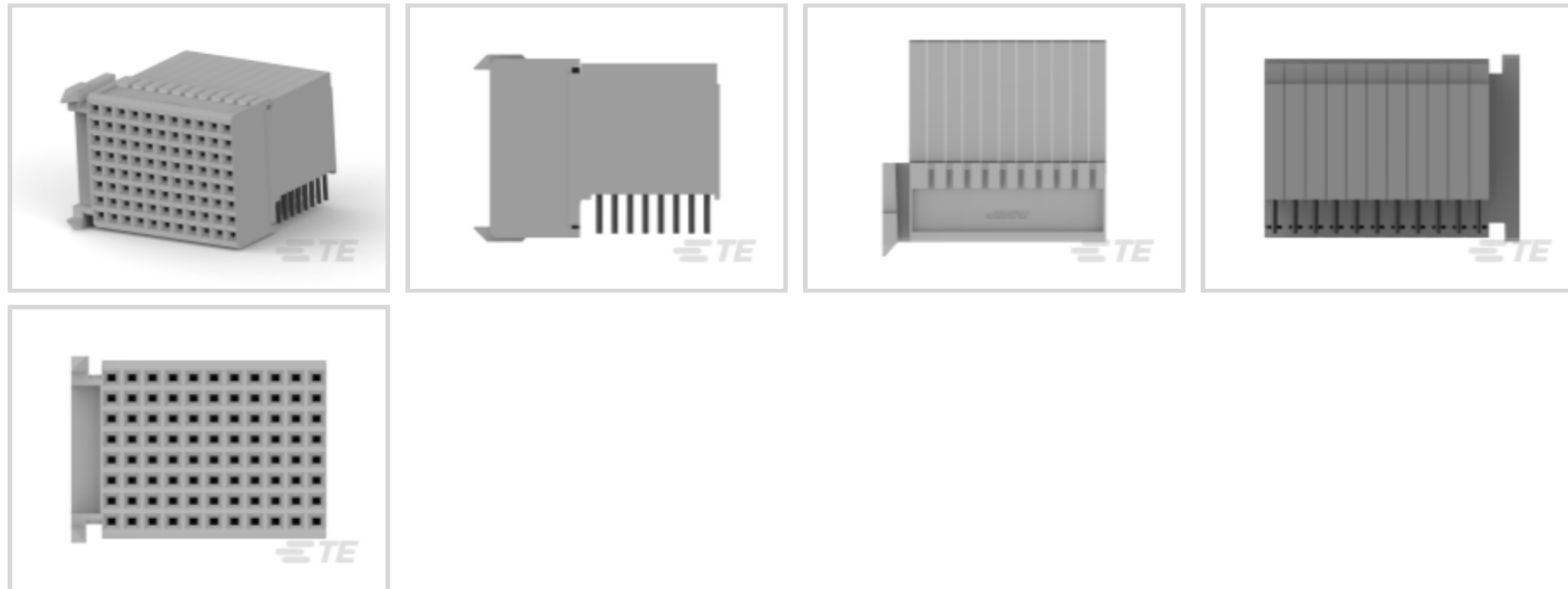
PCB Mount Receptacle,  $\leq 1$  Gb/s, 11 Column, 8 Row, Mezzanine, 88 Position, 2 mm [.078 in] Centerline, Z-PACK 2mm HM, Hard Metric Backplane Connectors

[View on TE.com >](#)



[Connectors >](#) [PCB Connectors >](#) [Backplane Connectors >](#) [Hard Metric Backplane Connectors >](#)

HM Receptacle Connector: Traditional Backplane, Coplanar, 2mm



PCB Connector Assembly Type: **PCB Mount Receptacle**

Data Rate:  $\leq 1$  Gb/s

Number of Columns: **11**

Number of Rows: **8**

Backplane Architecture: **Mezzanine**

[All HM Receptacle Connector: Traditional Backplane, Coplanar, 2mm \(48\)](#)

## Features

### Product Type Features

Backplane Interface Type	2mm HM
Connector System	Board-to-Board
Connector & Contact Terminates To	Printed Circuit Board
PCB Connector Assembly Type	PCB Mount Receptacle
Sealable	No

### Configuration Features

Rows Loaded	A, B, C, D, E, F, G, H
Number of Signal Positions	88
Number of Columns	11
Number of Rows	8
Backplane Architecture	Mezzanine
Number of Positions	88



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

### Signal Characteristics

Crosstalk Version	Standard
-------------------	----------

Data Rate	≤1 Gb/s
-----------	---------

### Body Features

Primary Product Color	Gray
-----------------------	------

### Contact Features

Feedthrough Post Length	3.3 mm
-------------------------	--------

CompactPCI Designation	None
------------------------	------

Contact Type	Socket
--------------	--------

Contact Underplating Material	Nickel
-------------------------------	--------

PCB Contact Termination Area Plating Material	Tin
---	-----

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

Contact Mating Area Plating Material	Performance Based
--------------------------------------	-------------------

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

Contact Current Rating (Max)	1.5 A
------------------------------	-------

### Termination Features

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

### Mechanical Attachment

Mating Alignment Type	Multi-Purpose Center
-----------------------	----------------------

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

### Housing Features

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

Centerline (Pitch)	2 mm[.078 in]
--------------------	---------------

### Dimensions

Backplane Module Length	25 mm
-------------------------	-------

### Usage Conditions

Operating Temperature Range	-55 – 125 °C[-67 – 257 °F]
-----------------------------	----------------------------

### Operation/Application

Shielded	No
----------	----

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



### Industry Standards

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

### Packaging Features

Packaging Quantity	20
Packaging Method	Box

### 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	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>

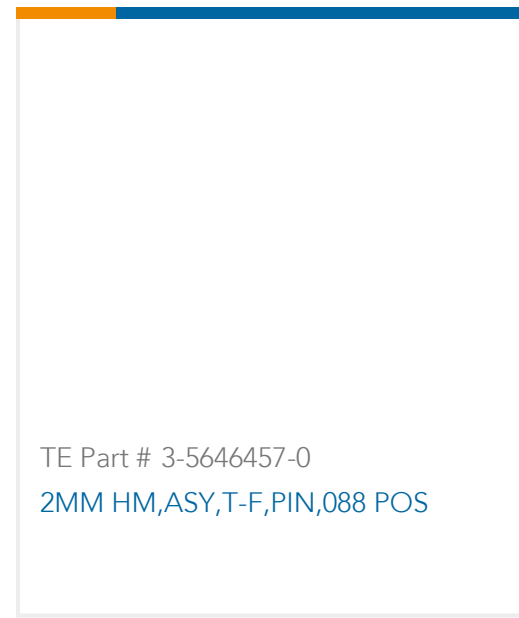
### Compatible Parts



TE Part # CAT-472-Z12  
Hard Metric Male Connector:  
Traditional Backplane, Mezzanine,  
2mm



TE Part # 2170310-2  
2MM HM,ASY,T-F,PIN,088 POS

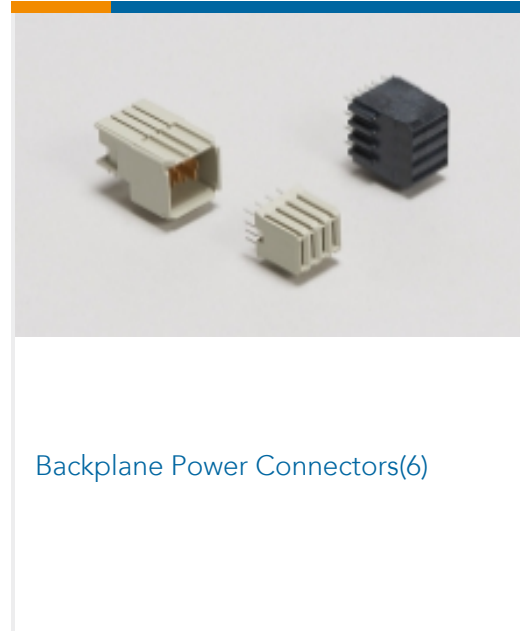


TE Part # 3-5646457-0  
2MM HM,ASY,T-F,PIN,088 POS

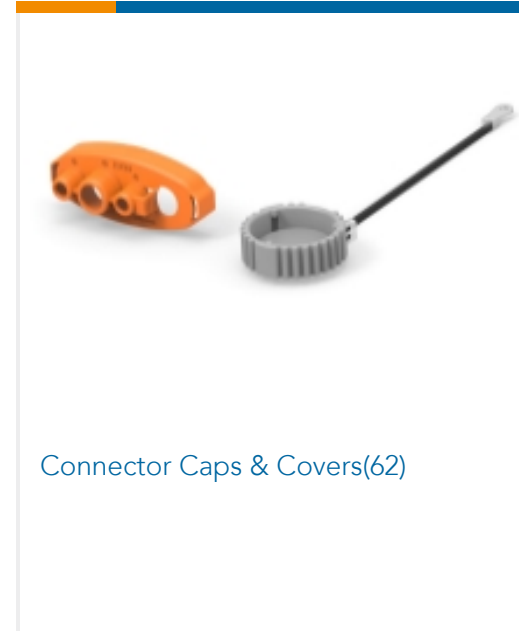
## Also in the Series | Z-PACK 2mm HM



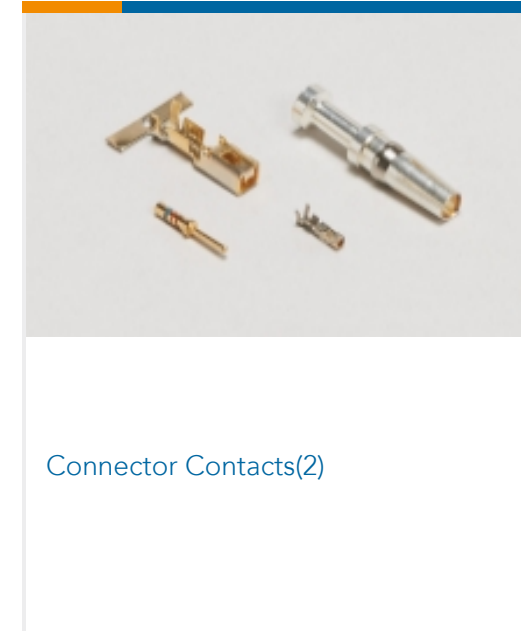
Backplane Connector Housings(4)



Backplane Power Connectors(6)



Connector Caps & Covers(62)



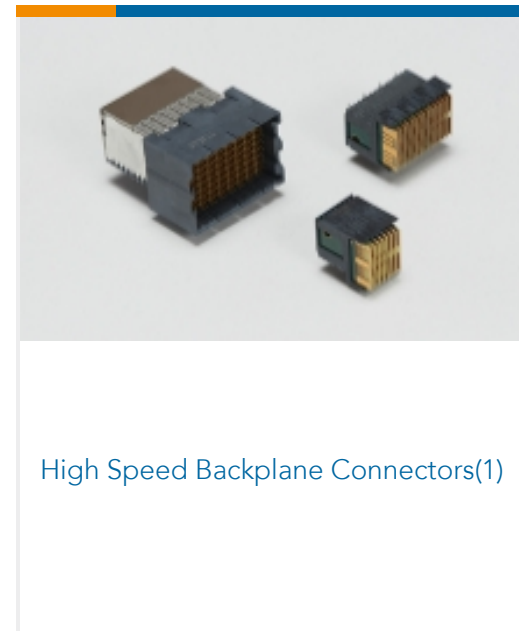
Connector Contacts(2)



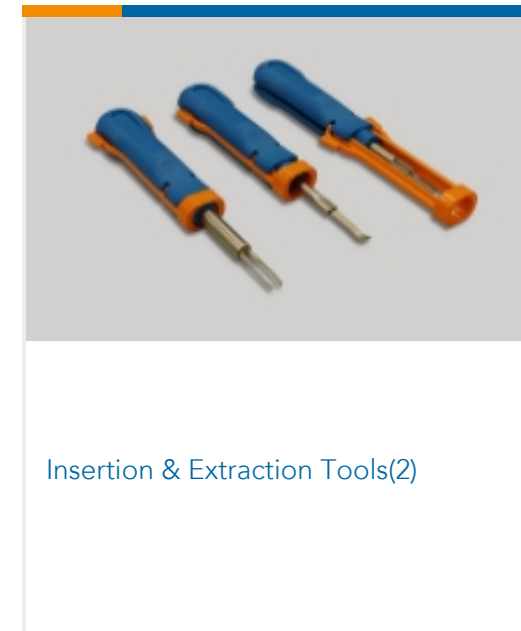
Connector Hardware(97)



Hard Metric Backplane Connectors  
(267)



High Speed Backplane Connectors(1)



Insertion & Extraction Tools(2)



Rectangular Power Connectors(87)

## Customers Also Bought



TE Part #1-1827876-6  
DYNAMIC 1200D HDR ASSY H 12PX  
BLACK GOLD



TE Part #5100143-1  
Hard Metric Male Connector:  
Traditional Backplane, Mezzanine,  
2mm



TE Part #5223986-3  
UPM KEYED GUIDE MODULE



TE Part #1888653-4  
2X1 OFFSET ST/JK WITH LEDS



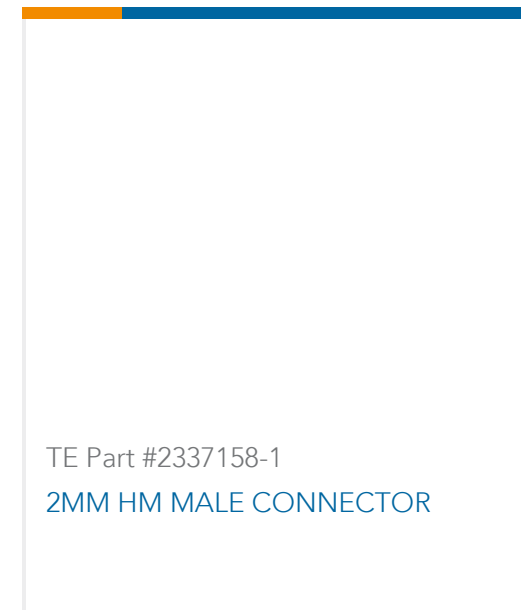
TE Part #3-2339978-3  
SFP56 STACKED 2X4 RECEPTACLE ASSEMBLY



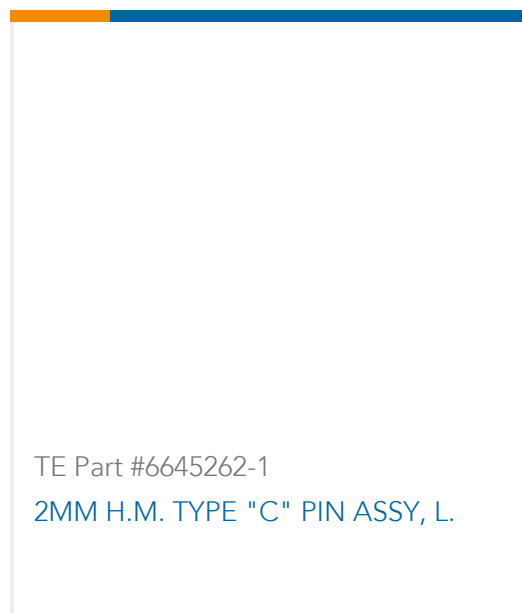
TE Part #53440-1  
ELECTRO-TAP, 18-14 AWG RUN&TAP ASSEMBLY



TE Part #1469734-1  
HM-ZD 2PR HDR 40P SEQ, LF



TE Part #2337158-1  
2MM HM MALE CONNECTOR



TE Part #6645262-1  
2MM H.M. TYPE "C" PIN ASSY, L.

## Documents

### Product Drawings

[2MM HM,ASY,T-F,REC,TWIST TULIP](#)

English

### CAD Files

[3D PDF](#)

English

**Customer View Model**

[ENG\\_CVM\\_5646446-1\\_A.2d\\_dxf.zip](#)

English

**Customer View Model**

[ENG\\_CVM\\_5646446-1\\_A.3d\\_igs.zip](#)

English

**Customer View Model**

[ENG\\_CVM\\_5646446-1\\_A.3d\\_stp.zip](#)

English

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

### Product Specifications

[Application Specification](#)

English