

IMPACT

TE Internal #: 2007793-1

144 Position, Mating Alignment, Keyed Mating Alignment Type, 9 Row, 16 Column, PCB Mount Header, Vertical, IMPACT, High Speed Backplane Connectors

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



Number of Positions: **144**

Row-to-Row Spacing: **1.35 mm [.053 in]**

Mating Alignment: **With**

Mating Alignment Type: **Keyed**

Number of Rows: **9**

Features

Product Type Features

Signal Arrangement	Differential
Connector System	Board-to-Board
Connector & Contact Terminates To	Printed Circuit Board
PCB Connector Assembly Type	PCB Mount Header
Shroud Style	Partially Shrouded

Configuration Features

Number of Ground Positions	48
Number of Pairs	48
Stackable	No
Number of Signal Positions	96
Number of Positions	144
Number of Rows	9
Number of Columns	16
PCB Mount Orientation	Vertical

Guide Location

Left

Electrical Characteristics

Impedance

100 Ω

Operating Voltage

30 VAC

Signal Characteristics

Number of Differential Pairs per Column

3

Data Rate

20 – 25 Gb/s

Body Features

Primary Product Color

Black

Contact Features

Contact Mating Area Length

4.5 mm[.177 in]

PCB Contact Termination Area Plating Material Thickness

.76 – 1.52 µm[30 – 60 µin]

Contact Layout

Inline

Contact Type

Pin

Contact Underplating Material Thickness

1.27 µm[50 µin]

Contact Mating Area Plating Material Thickness

.76 µm[29.92 µin]

Contact Mating Area Plating Material

Gold

PCB Contact Termination Area Plating Material Finish

Matte

Contact Shape & Form

Dual Beam

Contact Underplating Material

Nickel

PCB Contact Termination Area Plating Material

Tin

Contact Base Material

Copper Alloy

Contact Current Rating (Max)

.75 A

Termination Features

Termination Post & Tail Length

1.4 mm[.055 in]

Termination Method to PCB

Through Hole - Press-Fit

Mechanical Attachment

Guide Hardware

With

Mating Retention

Without

PCB Mount Retention

With

PCB Mount Retention Type

Action/Compliant Tail & Screw

Mating Alignment

With

Mating Alignment Type	Keyed
Connector Mounting Type	Board Mount

Housing Features

Number of Shrouded Sides	2
End Wall Location	Open
Housing Material	LCP - GF (Liquid Crystal Polymer)
Centerline (Pitch)	1.9 mm[.075 in]

Dimensions

Connector Length	36.9 mm[1.453 in]
Connector Height	24.6 mm[.969 in]
Connector Width	16.7 mm[.657 in]
PCB Thickness (Recommended)	1 mm
PCB Hole Diameter	.36 mm[.014 in]
Row-to-Row Spacing	1.35 mm[.053 in]

Usage Conditions

Operating Temperature Range	-55 – 85 °C[-67 – 185 °F]
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Operation/Application

Circuit Application	Signal
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Industry Standards

Compatible With Approved Standards Products	UL E28476
UL Flammability Rating	UL 94V-0

Packaging Features

Packaging Method	Box & Tube, Tube
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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>

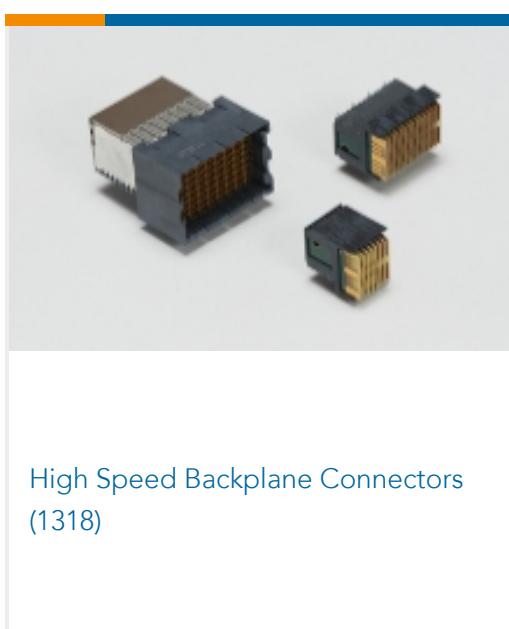
Compatible Parts



TE Part # 2007711-1
IMP100S,R,RA3P16C,UG,39

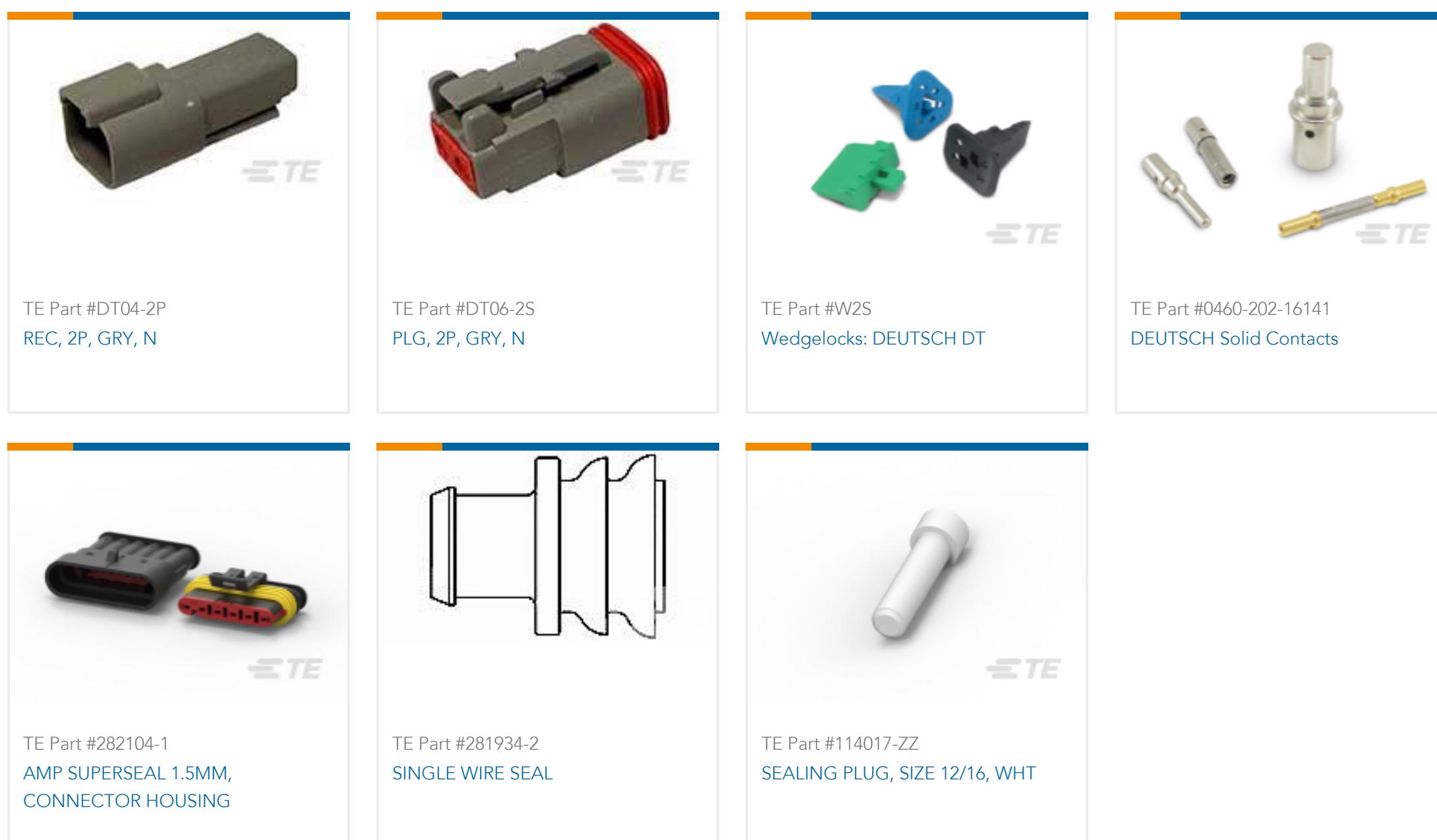


TE Part # 2018378-1
TOOL, SEAT 3 PR 16 COL, BP CONN

Also in the Series | **IMPACT**

High Speed Backplane Connectors
(1318)

Customers Also Bought



Documents

CAD Files

Customer View Model

[ENG_CVM_CVM_2007793-1_B.2d_dxf.zip](#)

English

3D PDF

3D

Customer View Model

[ENG_CVM_CVM_2007793-1_B.3d_igs.zip](#)

English

Customer View Model

[ENG_CVM_CVM_2007793-1_B.3d_stp.zip](#)

English

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

Datasheets & Catalog Pages

[7-1773458-1_IMPACT_BACKPLANE_CONNECTOR_SYSTEM_CATALOG](#)

English

Product Specifications

[Application Specification](#)

English

Agency Approvals

[Agency Approval Document](#)

English