

1-2007704-1

✓ ACTIVE

**IMPACT**

TE Internal #: 1-2007704-1

90 Position High Speed Backplane Connector, 9 Row, 10 Column,  
 PCB Mount Receptacle, Right Angle, Unshrouded, 1.9 mm [.075 in]  
 Centerline, IMPACT

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



Number of Positions: **90**

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

Mating Alignment: **With**

Mating Alignment Type: **Keyed**

Number of Rows: **9**

**Features****Electrical Characteristics**

Operating Voltage	30 VDC
Impedance	100 Ω

**Signal Characteristics**

Data Rate	20 – 25 Gb/s
Number of Differential Pairs per Column	3

**Industry Standards**

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

**Termination Features**

Termination Method to PCB	Through Hole - Press-Fit
Termination Post & Tail Length	1.2 mm [.047 in]

**Body Features**

Primary Product Color	Black
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**Packaging Features**

Packaging Method	Tube, Box & Tube
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**Contact Features**

Contact Underplating Material	Nickel
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Contact Underplating Material Thickness	1.27 $\mu\text{m}$ [50 $\mu\text{in}$ ]
Contact Mating Area Plating Material Thickness	.762 $\mu\text{m}$ [30 $\mu\text{in}$ ]
PCB Contact Termination Area Plating Material Thickness	1.27 $\mu\text{m}$ [50 $\mu\text{in}$ ]
Contact Shape & Form	Dual Beam
Contact Layout	Inline
Contact Mating Area Plating Material	Gold
Contact Base Material	Copper Alloy
PCB Contact Termination Area Plating Material	Tin
Contact Type	Socket
Contact Current Rating (Max)	.75 A

#### Housing Features

Number of Shrouded Sides	0
Housing Material	LCP - GF (Liquid Crystal Polymer)
Centerline (Pitch)	1.9 mm [.075 in]

#### Product Type Features

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

#### Mechanical Attachment

Guide Hardware	With
PCB Mount Retention	With
Mating Retention	Without
PCB Mount Retention Type	Action/Compliant Tail & Screw
PCB Mount Alignment Type	Locating Posts
Mating Alignment	With
Mating Alignment Type	Keyed
Connector Mounting Type	Board Mount

#### Dimensions

PCB Thickness (Recommended)	1 mm
Connector Width	24.2 mm [.953 in]
PCB Hole Diameter	.39 mm [.015 in]

Connector Height	13.3 mm[.524 in]
Connector Length	26.6 mm[1.047 in]
Row-to-Row Spacing	1.35 mm[.053 in]

### Configuration Features

Number of Pairs	30
Number of Ground Positions	30
Number of Signal Positions	60
Stackable	No
Number of Positions	90
Number of Rows	9
Number of Columns	10
PCB Mount Orientation	Right Angle
Guide Location	Right

### Usage Conditions

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

Circuit Application	Signal
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### Other

EU RoHS Compliance	Compliant
EU ELV Compliance	Compliant

### Product Compliance

For compliance documentation, visit the product page on [TE.com](http://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

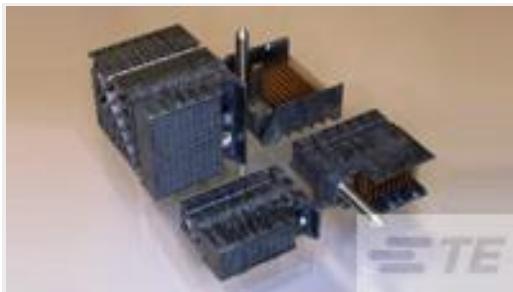
## Solder Process Capability

Not applicable for solder process capability

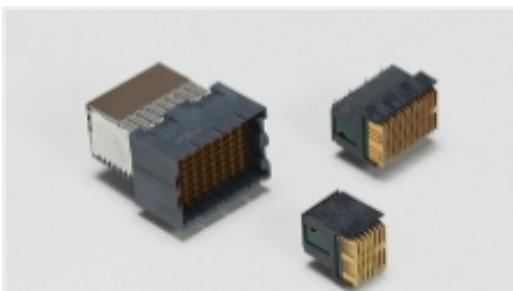
## Product Compliance Disclaimer

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 # 1-2007780-1  
IMP100S,H,V3P10C,GR,OEW46,4.5

Also in the Series | **IMPACT**

High Speed Backplane Connectors  
(149)

## Customers Also Bought



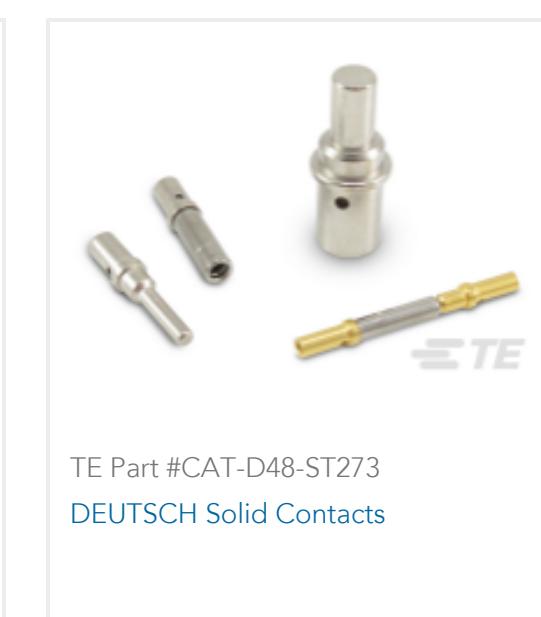
TE Part #DT04-2P  
REC, 2P, GRY, N



TE Part #DT06-2S  
PLG, 2P, GRY, N



TE Part #CAT-D487-W416  
Wedgelocks: DEUTSCH DT



TE Part #CAT-D48-ST273  
DEUTSCH Solid Contacts



## Documents

### Product Drawings

[IMP100S,R,RA3P10C,RG,39](#)

English

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### CAD Files

Customer View Model

[ENG\\_CVM\\_CVM\\_1-2007704-1\\_D.2d\\_dxf.zip](#)

English

### 3D PDF

3D

Customer View Model

[ENG\\_CVM\\_CVM\\_1-2007704-1\\_D.3d\\_igs.zip](#)

English

Customer View Model

[ENG\\_CVM\\_CVM\\_1-2007704-1\\_D.3d\\_stp.zip](#)

English

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

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### Product Specifications

[Application Specification](#)

English

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### Agency Approvals

[Agency Approval Document](#)

English