

# DRC23-40PB-N012 ✓ ACTIVE

## DEUTSCH | DEUTSCH DRC

TE Internal #: DRC23-40PB-N012

PCB Mount Header, Right Angle, Wire-to-Board, 40 Position, .174 in [4.42 mm] Centerline, Fully Shrouded, Gold (Au), Through Hole - Solder, DEUTSCH DRC

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Connectors > PCB Connectors > PCB Headers & Receptacles > DEUTSCH DRC HEADERS



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

Number of Positions: **40**

Centerline (Pitch): **4.42 mm [ .174 in ]**

Sealable: **Yes**

PCB Mount Orientation: **Right Angle**

[All DEUTSCH DRC HEADERS \(41\)](#)

## Features

### Product Type Features

Hybrid Header	No
Connector & Housing Shape	Rectangular
PCB Connector Assembly Type	PCB Mount Header
Header Type	Fully Shrouded
Connector System	Wire-to-Board
Sealable	Yes
Connector & Contact Terminates To	Wire & Cable

### Configuration Features

Number of Sections	2
Connector Modification	One Piece Design
Number of Signal Positions	40
Number of Positions	40
PCB Mount Orientation	Right Angle
Number of Rows	4

### Electrical Characteristics

Voltage Rating (Max)	250 VAC
Nominal Voltage Architecture	12 V, 24 V



Operating Voltage	250 VAC
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### Body Features

Primary Product Color	Black
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Connector Code	B
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### Contact Features

Contact Size	Size 20
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Contact Type	Pin
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Mating Pin Diameter	1.02 mm[.04 in]
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Contact Mating Area Plating Material	Gold (Au)
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Contact Current Rating (Max)	7.5 A
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### Termination Features

Termination Method to Printed Circuit Board	Through Hole - Solder
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### Mechanical Attachment

Mounting Holes	With
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Mating Alignment Type	Keyed
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Mating Retention	With
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Mating Alignment	With
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PCB Mount Alignment	With
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Panel Mount Feature	With
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PCB Mount Retention	With
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PCB Mount Retention Type	Mounting Screw
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Mating Retention Type	Locking Interface
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Connector Mounting Type	Panel Mount
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### Housing Features

Centerline (Pitch)	4.42 mm[.174 in]
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### Dimensions

Connector Length	45.34 mm[1.785 in]
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Connector Width	96.52 mm[3.8 in]
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PCB Thickness (Recommended)	.78 – 1.57 mm[.031 – .062 in]
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Profile Height from PCB	38.1 mm[1.5 in]
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### Usage Conditions

Operating Temperature (Max)	125 °C[257 °F]
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Operating Temperature Range	-55 – 125 °C[-67 – 257 °F]
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### Operation/Application

Shielded	No
Circuit Application	Power & Signal

### Industry Standards

Degree of Protection	Not Tested
UL Flammability Rating	20mm Flame Test per Standard UL-94

### Packaging Features

Packaging Type	Box
Packaging Quantity	48

### Other

Interface Number	DRC23-40PX
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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 2022 (224) Candidate List Declared Against: JUL 2021 (219) SVHC > Threshold: Not Yet Reviewed
Halogen Content	Not Low Halogen - contains Br or Cl > 900 ppm.
Solder Process Capability	Not reviewed 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-D799-CH8172  
DEUTSCH DRC HOUSINGS

TE Part # 0504-003-4001  
DUST CAP, 40P, REC, BLK, DRC20

TE Part # 0515-013-4005  
PROTECT CVR, 40P, REC, YEL, DRC20

TE Part # DRC26-40SB-P017  
PLG, 40P, BLK, N, SS CLIP, B


TE Part # DRC26-40SB-P019  
PLG, 40P, BLK, N, ZINC CLIP, B

TE Part # DRC26-40SB-PL01  
PLG, 40P, BLK, N, ROUTER CAP, SS CLIP, B


## Also in the Series | DEUTSCH DRC



Automotive Connector Caps & Covers (9)



Automotive Housings(112)



Insertion & Extraction Tools(7)



PCB Headers & Receptacles(41)

## Customers Also Bought



TE Part #HDP24-24-35PN  
REC, 35P, BLK, N, 16/20, P



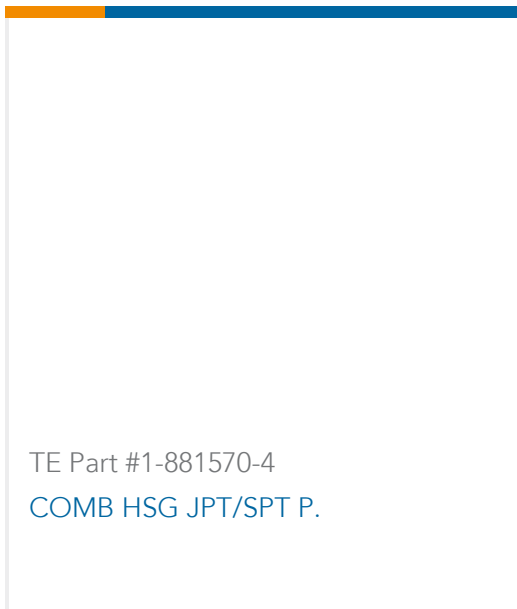
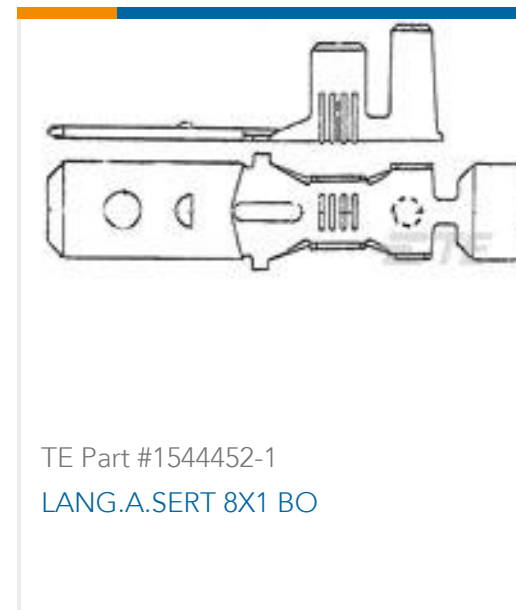
TE Part #208478-1  
CMC PLUG ASSEMBLY,SZ 28



TE Part #823637-000  
382A034-4/42-0



TE Part #DRC23-40PC-N012  
DEUTSCH DRC HEADERS



## Documents

### Product Drawings

HDR, 40P, BLK, RA, AU/NI/CU, B

English

### CAD Files

3D PDF

3D

Customer View Model

[ENG\\_CVM\\_CVM\\_DRC23-40PB-N012\\_99\\_c-drc23-40pb-n012-99.2d\\_dxf.zip](#)

English

Customer View Model

[ENG\\_CVM\\_CVM\\_DRC23-40PB-N012\\_99\\_c-drc23-40pb-n012-99.3d\\_igs.zip](#)

English

Customer View Model

[ENG\\_CVM\\_CVM\\_DRC23-40PB-N012\\_99\\_c-drc23-40pb-n012-99.3d\\_stp.zip](#)

English

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

### Datasheets & Catalog Pages

[ICT Terminals and Connectors Catalogue](#)

English

### Product Specifications

[Product Specification](#)

English

### Product Environmental Compliance

[Product Compliance](#)



English

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[Agency Approvals](#)

[UL Report](#)

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