

DRB12-48PBE-L018 ✓ ACTIVE

DEUTSCH | DEUTSCH DRC

TE Internal #: DRB12-48PBE-L018

48 Position Housing, Housing for Male Terminals, Wire-to-Wire,
3.81 mm / 4.7 mm / 6.71 mm [.15 in / .185 in / .264 in] Centerline,
DEUTSCH DRC

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Automotive Parts > Automotive Connectors > Automotive Housings > DEUTSCH DRB Housings



Connector & Housing Type: **Housing for Male Terminals**

Number of Positions: **48**

Sealable: **Yes**

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

Number of Rows: **6**

[All DEUTSCH DRB Housings \(19\)](#)

Features

Product Type Features

Mixed & Hybrid Connector	Yes
Connector Shape	Rectangular
Connector & Housing Type	Housing for Male Terminals
Sealable	Yes
Primary Locking Feature	Integrated in Housing
Connector System	Wire-to-Wire
Connector & Contact Terminates To	Wire & Cable

Configuration Features

Blank Cavity Position	0
Connector Modification	Wire Router
Connector Seal Code	E Seal
Number of Positions	48
Number of Rows	6

Electrical Characteristics

Operating Voltage	250 VDC
Nominal Voltage Architecture	12 V, 24 V, 48 V

Body Features

Cable Exit Angle	180°
Primary Product Color	Black
Connector & Keying Code	B

Contact Features

Contact Size	Size 12, Size 16, Size 20
Contact Type	Pin
Mating Pin Diameter	1.02 mm, 1.59 mm, 2.39 mm [.04 in][.063 in][.094 in]
Contact Current Rating (Max)	7.5 A, 13 A, 25 A

Mechanical Attachment

Strain Relief	With
Terminal Position Assurance	No
Mating Alignment Type	Keyed
Mating Alignment	With
Connector Mounting Type	Cable Mount (Free-Hanging)

Housing Features

Housing Material	PA GF
Centerline (Pitch)	3.81 mm, 4.7 mm, 6.71 mm [.15 in][.185 in][.264 in]

Dimensions

Row-to-Row Spacing	.64 mm, 7.57 mm, 7.77 mm, 8.2 mm, 8.41 mm [.025 in][.298 in][.306 in][.323 in][.331 in]
Compatible Insulation Diameter Range	1.02 – 2.41 mm, 1.35 – 3.05 mm, 2.46 – 4.01 mm [.04 – .095 in][.053 – .12 in][.097 – .158 in]
Product Width	66.19 mm [2.606 in]
Product Length	52.76 mm [2.077 in]
Connector Height	66.19 mm [2.606 in]

Usage Conditions

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

Circuit Application	Power
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Industry Standards

IP Rating	IP68, IP6K9K
Compatible With Agency/Standards Products	SAE J2030

Packaging Features

Packaging Quantity	36
Packaging Method	Box

Other

Serviceable	Yes
Connector Position Assurance Capable	No

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: JAN 2025 (247) Candidate List Declared Against: JAN 2024 (240) Does not contain REACH SVHC
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-D781-M8649
DEUTSCH DRB Mounting Accessories



TE Part # CAT-D48-ST273
DEUTSCH Solid Contacts



TE Part # WB-48PB
WEDGE LOCK, 48P, REC, BLK, DRB, B



TE Part # DRB48-60-BT
BOOT, 48/60P, PLG/REC, ST, BLK



TE Part # 3315-015-0005
PROTECT CVR, 48/60P, PLG, YEL, DRB



TE Part # CAT-D48-SP729
DEUTSCH Sealing Plugs



TE Part # CAT-D48-SFT273
DEUTSCH Stamped and Formed
Contacts

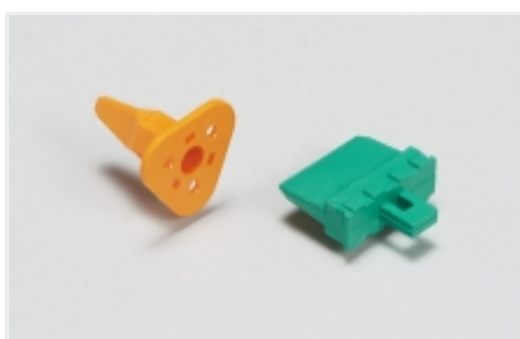


TE Part # DT-RT1
EXT TOOL, FRONT RELEASE



TE Part # DRB16-48SBE-L018
PLG, 48P, BLK, E, CAP, B

Also in the Series | DEUTSCH DRC



Automotive Connector Locks &
Position Assurance(5)



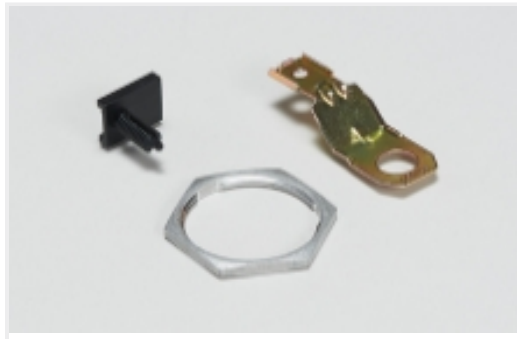
Automotive Housings(125)



Automotive Seals & Cavity Plugs(3)



Connector Strain Relief(9)

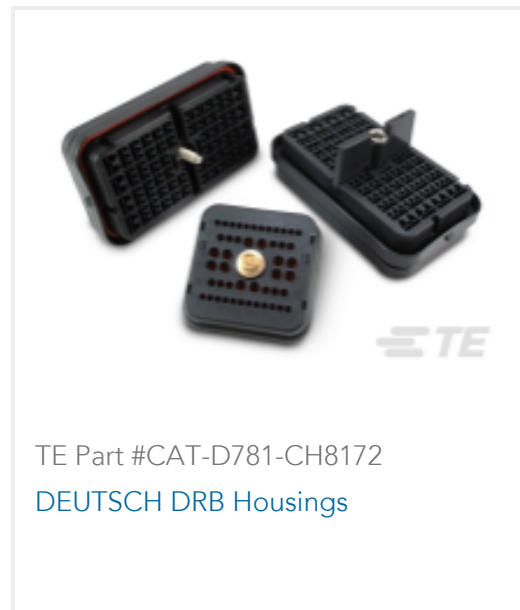


Other Automotive Connector Accessories(2)

Customers Also Bought



TE Part #DRBF-2B
FLANGE, MOUNT, 60/48P, BLK, B



TE Part #CAT-D781-CH8172
DEUTSCH DRB Housings



TE Part #CAT-D781-W416
DEUTSCH DRB Wedgelocks



TE Part #DRB48-60-BT
BOOT, 48/60P, PLG/REC, ST, BLK

Documents

Product Drawings

[REC, 48P, BLK, E, CAP, B](#)

English

CAD Files

[3D PDF](#)

3D

Customer View Model

[ENG_CVM_CVM_DRB12-48PBE-L018_C_c-drb12-48pbe-l018-c.2d_dxf.zip](#)

English

Customer View Model

[ENG_CVM_CVM_DRB12-48PBE-L018_C_c-drb12-48pbe-l018-c.3d_igs.zip](#)

English

Customer View Model

[ENG_CVM_CVM_DRB12-48PBE-L018_C_c-drb12-48pbe-l018-c.3d_stp.zip](#)

English

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Datasheets & Catalog Pages

[TERMINALS AND CONNECTORS](#)

English

[CONNECTOR SELECTOR](#)

English

Product Specifications

[Application Specification](#)



English

[Agency Approvals](#)

[UL Report](#)

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