DRB12-48PAE-L018 ✔ ACTIVE

DEUTSCH | DEUTSCH DRB

TE Internal #: DRB12-48PAE-L018

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

View on TE.com >

Connectors > Automotive Connectors > Automotive Housings > DEUTSCH DRB Housings



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

Number of Positions: **48**

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

Centerline (Pitch): **3.81 mm, 4.7 mm, 6.71 mm [.15 in, .185 in, .264 in]**

Sealable: **Yes**

All DEUTSCH DRB Housings (19)

Features

Product Type Features

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

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 VAC
Nominal Voltage Architecture	250 V

Body Features

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

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

Terminal Position Assurance	No
Strain Relief	With
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

Connector Height	66.19 mm[2.606 in]
Product Width	66.19 mm[2.606 in]
Product Length	52.76 mm[2.077 in]
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]

Usage Conditions

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

Operation/Application

Circuit Application	Power

Industry Standards

Degree of Protection	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: JUNE 2024 (241) 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-D48-SP729
DEUTSCH Sealing Plugs



TE Part # CAT-D781-M8649
DEUTSCH DRB Mounting Accessories



TE Part # DRB16-48SAE-L018
PLG, 48P, BLK, E, CAP, A



TE Part # CAT-D48-ST273
DEUTSCH Solid Contacts



TE Part # WB-48PA
WEDGE LOCK, 48P, REC, GRY, DRB, A



TE Part # CAT-J67-DSCC16
DEUTSCH Size 16 Crimp Contacts



TE Part # DT-RT1
EXT TOOL, FRONT RELEASE



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



TE Part # 1060-12-0144
PIN, SF, SIZE 12, 12-14, AU/SN



TE Part # 1060-12-0222
PIN, SF, SIZE 12, 10, NI/NI



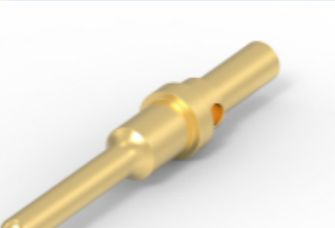
TE Part # 1060-12-0166
PIN, SF, SIZE 12, 12-14, NI/SN



TE Part # 1060-20-0144
PIN, SF, SIZE 20, 16-22, AU/SN



TE Part # 1060-20-0244
PIN, SF, SIZE 20, 16-22, AU/SN



TE Part # 2300908-1
0460-003-16329, PIN, SOLID, 20-24AWG, AU



TE Part # 1060-20-0622
PIN, SF, SIZE 20, 14-16, NI/NI



TE Part # 1060-20-0222
PIN, SF, SIZE 20, 16-22, NI/NI



TE Part # 1060-20-0122
PIN, SF, SIZE 20, 16-22, NI/NI



TE Part # 1060-20-0177
PIN, SF, SIZE 20, 16-22, SN/SN



TE Part # 1060-20-0277
PIN, SF, SIZE 20, 16-22, SN/SN

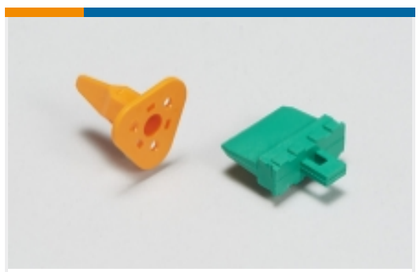


TE Part # DRB48-60-BT
BOOT, 48/60P, PLG/REC, ST, BLK

Also in the Series | DEUTSCH DRB



Automotive Connector Caps & Covers (1)



Automotive Connector Locks & Position Assurance(20)



Automotive Housings(19)



Connector Strain Relief(1)



Insertion & Extraction Tools(1)



Other Automotive Connector Accessories(6)

Customers Also Bought



TE Part #WB-60SA
WEDGE LOCK, 60P, PLG, GRY, DRB, A



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



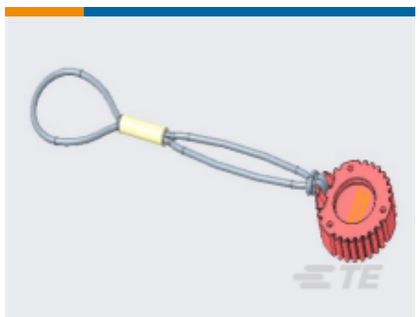
TE Part #DT04-08PD
REC, 8P, BRN, N, D



TE Part #YHDP26-24-19PEL024
PLG, 19P, BLK, E, WTHD, 12/16, P



TE Part #2304643-2
38POS,HYBRID,REC HSG ASSY,SLD



TE Part #HDC9-JDL082397
DUST CAP, 9P, REC, BLK, LANYARD, HD10



TE Part #DRB16-60SBE-L018
PLG, 60P, BLK, E, CAP, B



TE Part #1062-16-0144-PS
SOC, SF, SIZE 16, 14-18, AU/SN, 100 PC



TE Part #2304643-4
60POS,AMP MCP 2.8,REC HSG ASSY, SLD



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

Documents

Product Drawings

REC, 48P, BLK, E, CAP, A

English

CAD Files

3D PDF

3D

Customer View Model

ENG_CVM_CVM_DRB12-48PAE-L018_C_c-drb12-48pae-l018-c.2d_dxf.zip

English

Customer View Model

ENG_CVM_CVM_DRB12-48PAE-L018_C_c-drb12-48pae-l018-c.3d_igs.zip

English

Customer View Model

ENG_CVM_CVM_DRB12-48PAE-L018_C_c-drb12-48pae-l018-c.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

Application Specification

English

Agency Approvals

UL Report

English

Unikeyic Electronics

Global Electronic Components Distributor

Click to view pricing, inventory, delivery, and lifecycle information:

TE Connectivity:

1-962915-1 917696-1 936348-1 1393431-1 3-1393225-0 CPF0402B37K4E1 SBCHE64R7K SMW73R0JT
1903112-2 2005330-1 650075-000 1743455-2 1969656-1 2380312-2 MPT100C18RF ROX05SJ18R
SBCHE154R7K U5254-000005-030PA 1-794222-0 2-292161-3 2310537-1 3631B101LL 141991-2
2377783-2 2834055-1 CRGCQ2010J3K3 RH73H2A40MKTN 175977-2 3430B2F51RTDF TE50BR39J