

DRB16-48SBE-L018 ✓ ACTIVE

DEUTSCH | DEUTSCH DRB

TE Internal #: DRB16-48SBE-L018

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

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Connectors > Automotive Connectors > Automotive Housings > DEUTSCH DRB Housings



Number of Positions: **48**

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

Mating Pin Diameter: **2.39 mm, 1.02 mm, 1.59 mm [.063 in, .094 in, .04 in]**

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

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

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

Features

Industry Standards

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

Dimensions

| | |
|--------------------------------------|---|
| Row-to-Row Spacing | 8.41 mm, 7.77 mm, .64 mm, 8.2 mm, 7.57 mm [.298 in][.306 in][.331 in][.323 in][.025 in] |
| Compatible Insulation Diameter Range | 1.35 – 3.05 mm, 1.02 – 2.41 mm, 2.46 – 4.01 mm [.097 – .158 in][.053 – .12 in][.04 – .095 in] |
| Product Width | 66.19 mm[2.606 in] |
| Product Length | 35.71 mm[1.406 in] |
| Connector Height | 66.19 mm[2.606 in] |

Packaging Features

| | |
|--------------------|-----|
| Packaging Quantity | 36 |
| Packaging Method | Box |



Mechanical Attachment

| | |
|-----------------------------|----------------------------|
| Strain Relief | With |
| Terminal Position Assurance | Yes |
| Mating Alignment Type | Keyed |
| Mating Alignment | With |
| Connector Mounting Type | Cable Mount (Free-Hanging) |

Other

| | |
|--------------------------------------|-----------|
| Serviceable | Yes |
| Connector Position Assurance Capable | No |
| EU RoHS Compliance | Compliant |
| EU ELV Compliance | Compliant |

Electrical Characteristics

| | |
|------------------------------|---------|
| Operating Voltage | 250 VDC |
| Nominal Voltage Architecture | 250 V |

Body Features

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

Housing Features

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

Contact Features

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

Product Type Features

| | |
|--------------------------|------------------------------|
| Mixed & Hybrid Connector | Yes |
| Connector Shape | Rectangular |
| Connector & Housing Type | Housing for Female Terminals |
| Connector System | Wire-to-Wire |



| | |
|-----------------------------------|-----------------------|
| Sealable | Yes |
| Primary Locking Feature | Integrated in Housing |
| 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 |

Usage Conditions

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

Operation/Application

| | |
|---------------------|-------|
| Circuit Application | Power |
|---------------------|-------|

Product Compliance

[For compliance documentation, visit the product page on TE.com>](#)

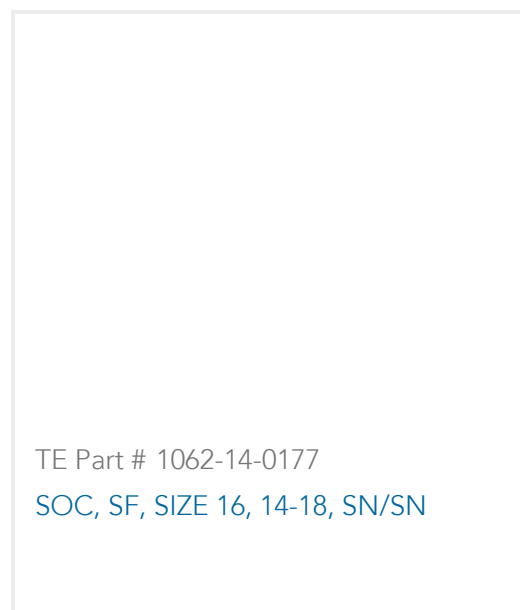
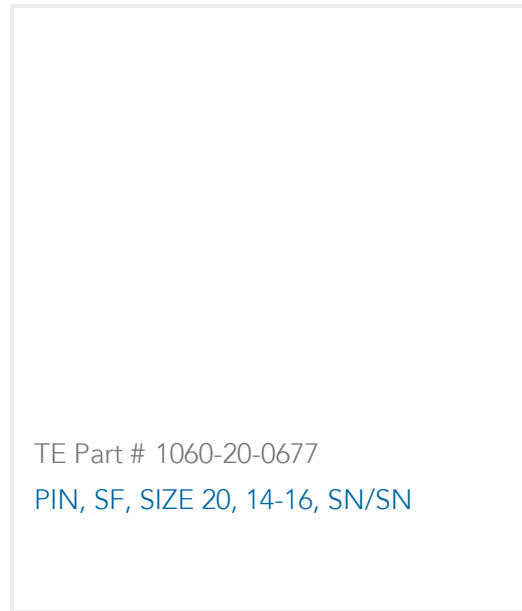
| | |
|---|--|
| EU RoHS Directive 2011/65/EU | Compliant |
| EU ELV Directive 2000/53/EC | Compliant |
| China RoHS 2 Directive MIIT Order No 32, 2016 | No Restricted Materials Above Threshold |
| EU REACH Regulation (EC) No. 1907/2006 | Current ECHA Candidate List: JUNE 2024 (241) Candidate List Declared Against: JAN 2023 (233) 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 |

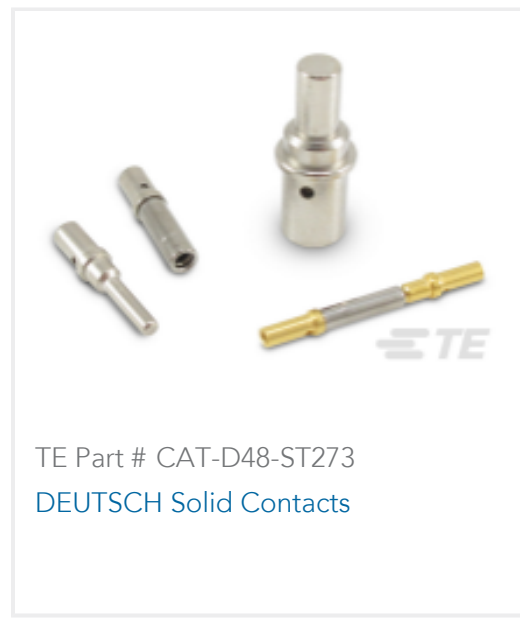
Product Compliance Disclaimer

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

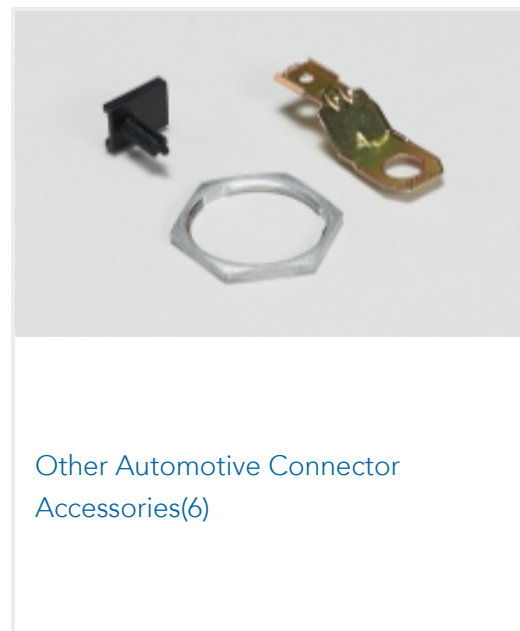
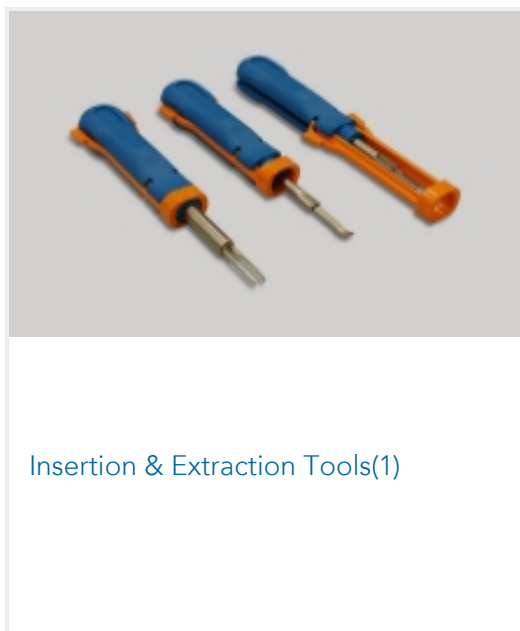
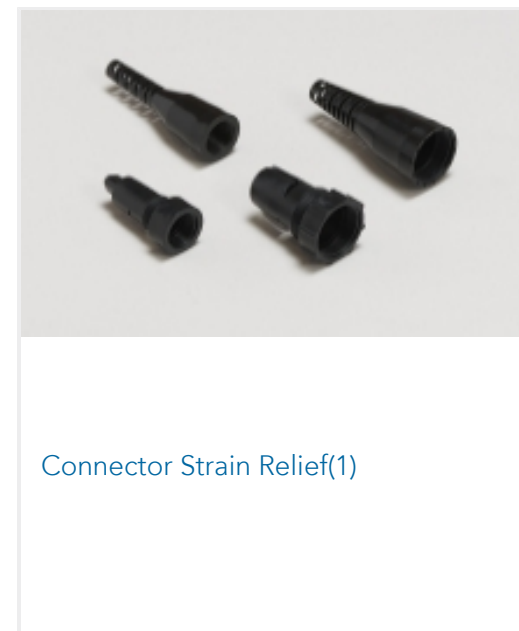
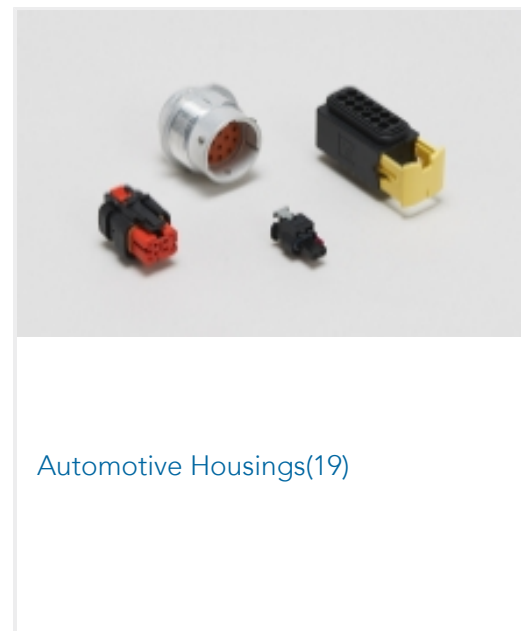
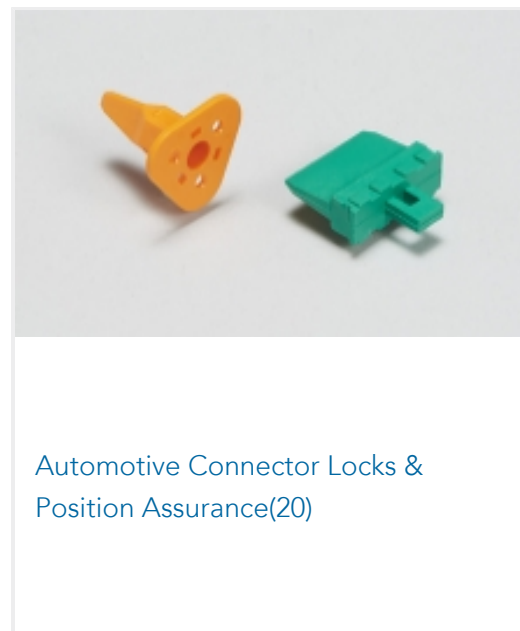
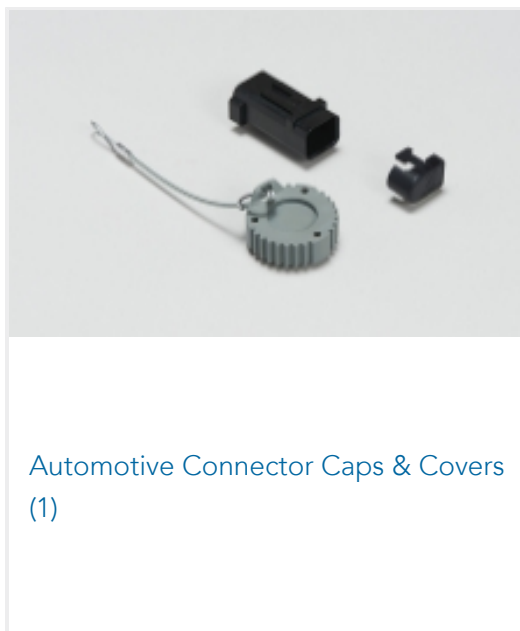
on SVHC in articles for this part number is based on the latest European Chemicals Agency (ECHA) 'Guidance on requirements for substances in articles' posted at this URL: <https://echa.europa.eu/guidance-documents/guidance-on-reach>

Compatible Parts





Also in the Series | **DEUTSCH DRB**



Customers Also Bought





Documents

Product Drawings

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

English

CAD Files

[3D PDF](#)

3D

Customer View Model

[ENG_CVM_CVM_DRB16-48SBE-L018_99_c-drb16-48sbe-l018-99.2d_dxf.zip](#)

English

Customer View Model

[ENG_CVM_CVM_DRB16-48SBE-L018_99_c-drb16-48sbe-l018-99.3d_igs.zip](#)

English

Customer View Model

[ENG_CVM_CVM_DRB16-48SBE-L018_99_c-drb16-48sbe-l018-99.3d_stp.zip](#)

English

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Datasheets & Catalog Pages

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Product Specifications

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