

AEC16-40SA

✓ ACTIVE

DEUTSCH | DEUTSCH AEC, DEUTSCH DRC

TE Internal #: AEC16-40SA

Housing for Female Terminals, Wire-to-Wire, 40 Position, 5.41 mm [.213 in] Centerline, Sealable, Black, Wire & Cable, Power, Hybrid

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Connectors > Automotive Connectors > Automotive Housings > DEUTSCH DRC Housings



Connector System: **Wire-to-Wire**  
Number of Positions: **40**  
Connector & Housing Type: **Housing for Female Terminals**  
Centerline (Pitch): **5.41 mm [.213 in]**  
Sealable: **Yes**

[All DEUTSCH DRC Housings \(117\)](#)

Features

Product Type Features

|                                   |                              |
|-----------------------------------|------------------------------|
| Mixed & Hybrid Connector          | No                           |
| Connector Shape                   | Rectangular                  |
| Connector System                  | Wire-to-Wire                 |
| Connector & Housing Type          | Housing for Female Terminals |
| Sealable                          | Yes                          |
| Connector & Contact Terminates To | Wire & Cable                 |
| Primary Locking Feature           | Integrated in Housing        |

Configuration Features

|                       |    |
|-----------------------|----|
| Blank Cavity Position | 0  |
| Number of Positions   | 40 |
| Number of Rows        | 7  |

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 16          |
| Contact Type                 | Socket           |
| Mating Pin Diameter          | 1.59 mm[.063 in] |
| Contact Current Rating (Max) | 13 A             |

Mechanical Attachment

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

Housing Features

|                    |                      |
|--------------------|----------------------|
| Housing Material   | PEI (Polyetherimide) |
| Centerline (Pitch) | 5.41 mm[.213 in]     |

Dimensions

|                                      |                             |
|--------------------------------------|-----------------------------|
| Connector Height                     | 45.16 mm[1.778 in]          |
| Product Width                        | 46.43 mm[1.828 in]          |
| Product Length                       | 36.58 mm[1.44 in]           |
| Row-to-Row Spacing                   | 5.41 mm[.213 in]            |
| Compatible Insulation Diameter Range | 2.54 – 3.4 mm[.1 – .134 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                      | Not Tested |
| Compatible With Agency/Standards Products | SAE J2030  |
| UL Flammability Rating                    | UL 94HB    |

Packaging Features



|                    |     |
|--------------------|-----|
| Packaging Quantity | 100 |
| 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)<br>Candidate List Declared Against: JUNE 2024 (241)<br>SVHC > Threshold:<br>Octamethylcyclotetrasiloxane (D4) (.5% in Component Part)<br>Dodecamethylcyclohexasiloxane (D6) (.5% in Component Part)<br>Decamethylcyclopentasiloxane (D5) (.5% in Component Part)<br><b>Article Safe Usage Statements:</b><br>Wash thoroughly after handling. Recycle if possible and dispose of the article by following all applicable governmental regulations relevant to your geographic location. |
| Halogen Content                               | Low Halogen - Br, Cl, F, I < 900 ppm per homogenous material. Also BFR/CFR/PVC Free                                                                                                                                                                                                                                                                                                                                                                                                                                                 |
| 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

AEC16-40SA

Housing for Female Terminals, Wire-to-Wire, 40 Position, 5.41 mm [.213 in]  
Centerline, Sealable, Black, Wire & Cable, Power, Hybrid



TE Part # AEC14-40PA  
REC, 40P, BLK, N, A

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

TE Part # CAT-D48-ST273  
DEUTSCH Solid Contacts

TE Part # CAT-D799-H342  
DEUTSCH DRC Headers

TE Part # CAT-D48-SP729  
DEUTSCH Sealing Plugs

TE Part # 0411-291-1405  
EXT TOOL, SIZE 16, 14-16 AWG, N, GRN

TE Part # 0411-204-1605  
EXT TOOL, SIZE 16, 16-18 AWG, N, DRK BLU

TE Part # 0515-010-4005  
PROTECT CVR, 40P, PLG, YEL, AEC

TE Part # 1062-14-0177  
SOC, SF, SIZE 16, 14-18, SN/SN

TE Part # YAE40-BT-STPDWN-0  
BOOT, 40P, PLG/REC, STEP, ST, BLK

Also in the Series | **DEUTSCH AEC**

Automotive Housings(6)

Also in the Series | **DEUTSCH DRC**

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Automotive Housings(117)



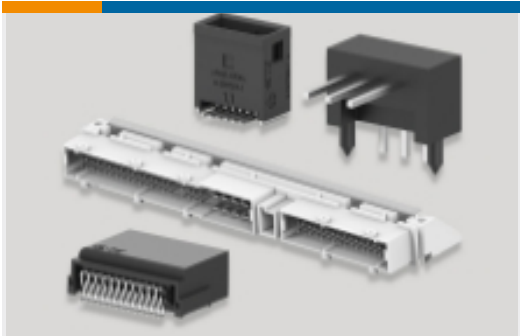
Connector Backshells(6)



Connector Strain Relief(3)



Insertion & Extraction Tools(7)



PCB Headers & Receptacles(44)

Customers Also Bought



TE Part #AEC16-40SD  
DEUTSCH DRC Housings



TE Part #776315-1  
68 POSITION PLUG ASSEMBLY



TE Part #794282-1  
15P UMNL WIRE SEAL



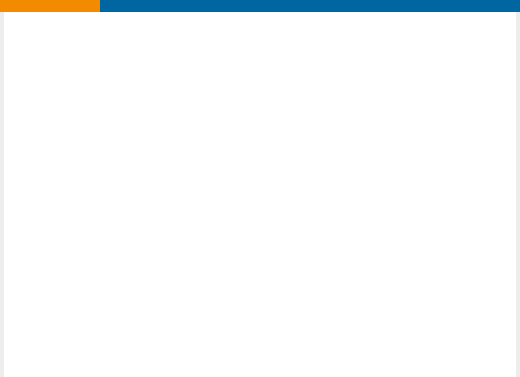
TE Part #HD36-24-21SN-072  
PLG, 21P, AL, N, THD ADPT DRAIN, 12 /16,S



TE Part #HDP26-24-31ST-L017  
PLG, 31P, BLK, T, RNG, 16, S



TE Part #776540-1  
776310-1 SECONDARY LOCK WITH 120 OHM 1/2



TE Part #0513-010-4006  
SEAL, INTF, 40P, BRN, DRC18



TE Part #YAE40-BT-STPDWN-0  
BOOT, 40P, PLG/REC, STEP, ST, BLK

Documents

Product Drawings  
PLG, 40P, BLK, N, A

English

CAD Files

3D PDF

3D

Customer View Model

ENG\_CVM\_CVM\_AEC16-40SA\_C\_c-aec16-40sa-c.2d\_dxf.zip



English

Customer View Model

[ENG\\_CVM\\_CVM\\_AEC16-40SA\\_C\\_c-aec16-40sa-c.3d\\_igs.zip](#)

English

Customer View Model

[ENG\\_CVM\\_CVM\\_AEC16-40SA\\_C\\_c-aec16-40sa-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

[Product Specification](#)

English

Agency Approvals

[UL Report](#)

English