

AEC16-40SA

✓ ACTIVE

DEUTSCH | DEUTSCH DRC, DEUTSCH AEC

TE Internal #: AEC16-40SA

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

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Connectors > Automotive Connectors > Automotive Housings > DEUTSCH DRC Housings



Number of Positions: 40  
Connector & Housing Type: Housing for Female Terminals  
Mating Pin Diameter: 1.59 mm [.063 in ]  
Connector System: Wire-to-Wire  
Centerline (Pitch): 5.41 mm [.213 in ]

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

Features

Product Type Features

Mixed & Hybrid Connector	No
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
Number of Positions	40
Number of Rows	7

Electrical Characteristics

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

Body Features

Cable Exit Angle	180°
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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

Strain Relief	Add By Accessory
Terminal Position Assurance	No
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

Row-to-Row Spacing	5.41 mm[.213 in]
Compatible Insulation Diameter Range	2.54 – 3.4 mm[.1 – .134 in]
Product Width	46.43 mm[1.828 in]
Product Length	36.58 mm[1.44 in]
Connector Height	45.16 mm[1.778 in]

Usage Conditions

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

Operation/Application

Circuit Application	Power
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Industry Standards

IP Rating	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: JAN 2025 (247) Candidate List Declared Against: JAN 2025 (247) Does not contain REACH SVHC
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

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

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

TE Part # CAT-D48-SP729  
DEUTSCH Sealing Plugs

TE Part # DT-RT1  
EXT TOOL, FRONT RELEASE

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

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

TE Part # CAT-D799-H342  
DEUTSCH DRC Headers

TE Part # CAT-D48-ST273  
DEUTSCH Solid Contacts

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

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

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

Also in the Series | **DEUTSCH DRC**

Automotive Headers(44)

Automotive Housings(6)

Connector Backshells(6)

Connector Strain Relief(3)

Insertion & Extraction Tools(7)

PCB Headers & Receptacles(44)

Rectangular Power Connectors(44)

Wire-to-Board Headers & Receptacles (44)

Also in the Series | **DEUTSCH AEC**

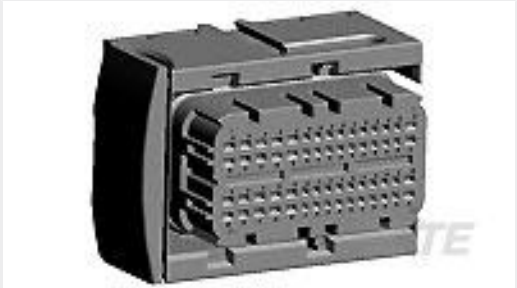
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Automotive Housings(6)

Customers Also Bought



TE Part #2-1355123-3  
CARRIER HSG 60POS, ASSY



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



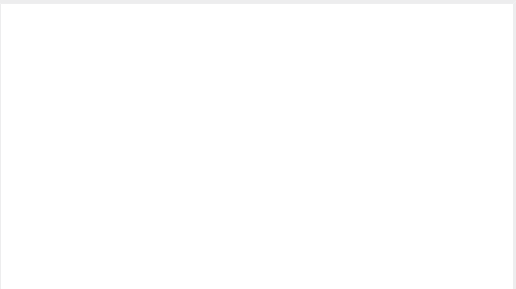
TE Part #CAT-D799-CH8172  
DEUTSCH DRC Housings



TE Part #776315-1  
68 POSITION PLUG ASSEMBLY



TE Part #776309-1  
CAP HOUSING 2 POSITION



TE Part #AEC14-40PC  
REC, 40P, BLK, N, C

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.





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Datasheets & Catalog Pages

TERMINALS AND CONNECTORS

English

ICT Terminals and Connectors Catalogue

English

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Product Specifications

Product Specification

English

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Agency Approvals

UL Report

English