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) Candidate List Declared Against: JUNE 2024 (241) SVHC > Threshold: Octamethylcyclotetrasiloxane (D4) (.5% in Component Part) Dodecamethylcyclohexasiloxane (D6) (.5% in Component Part) Decamethylcyclopentasiloxane (D5) (.5% in Component Part) **Article Safe Usage Statements:** 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



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 # YAEC40-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



Automotive Housings(117)



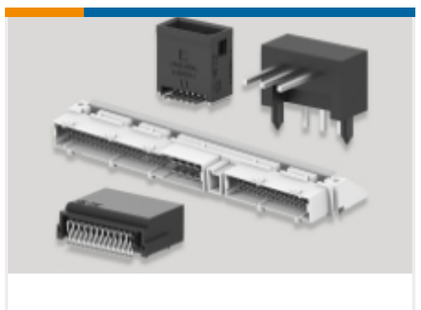
Connector Backshells(6)



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 #YAEC40-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

Unikeyic Electronics

Global Electronic Components Distributor

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

TE Connectivity:

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