

AEC16-40SA ✓ ACTIVE

DEUTSCH | DEUTSCH DRC

TE Internal #: AEC16-40SA

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

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Connectors > Automotive Connectors > Connector Housings > DEUTSCH DRC HOUSINGS



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

Mating Pin Diameter: **1.59 mm [.063 in]**

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

Number of Positions: **40**

Centerline (Pitch): **5.41 mm [.213 in]**

[All DEUTSCH DRC HOUSINGS \(112\)](#)

Features

Product Type Features

Connector & Housing Shape	Rectangular
Connector & Housing Type	Housing for Female Terminals
Connector System	Wire-to-Wire
Sealable	Yes
Hybrid Connector	No
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 VAC
Nominal Voltage Architecture	12 V, 24 V

Body Features

Cable Exit Angle	180°
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Body Material	PEI (Polyetherimide)
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Primary Product Color	Black
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Connector Code	A
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Contact Features

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

Mounting Feature	Without
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Terminal Position Assurance	No
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Strain Relief	Add By Accessory
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Mating Alignment Type	Keyed
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Mating Alignment	With
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Connector Mounting Type	Cable Mount (Free-Hanging)
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Housing Features

Centerline (Pitch)	5.41 mm[.213 in]
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Dimensions

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

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

Circuit Application	Power & Signal
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Industry Standards

Agency/Standard	SAE J2030
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Degree of Protection	Not Tested
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UL Flammability Rating	UL 94HB
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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 2022 (224) Candidate List Declared Against: JAN 2022 (223) SVHC > Threshold: Not Yet Reviewed
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-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



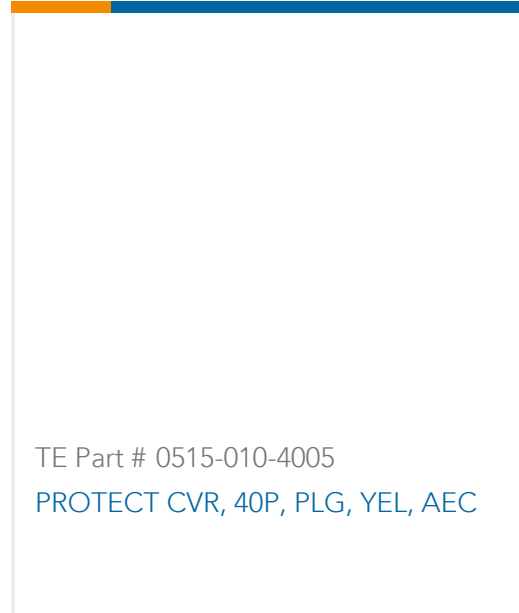
TE Part # CAT-D799-H342
DEUTSCH DRC HEADERS



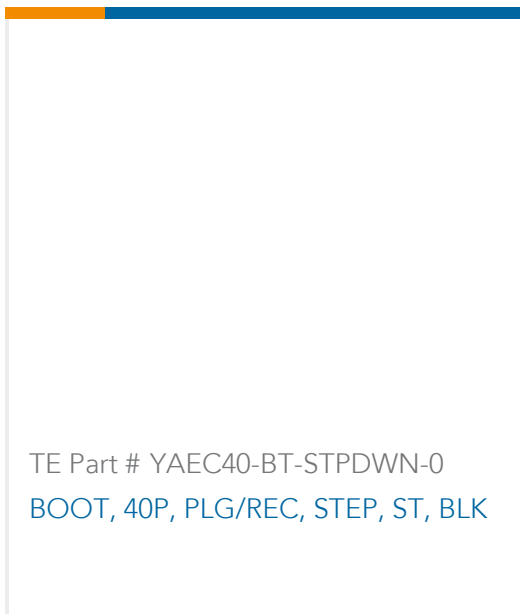
TE Part # CAT-D48-SFT273
DEUTSCH STAMPED & FORMED
CONTACTS



TE Part # CAT-D48-ST273
DEUTSCH SOLID CONTACTS

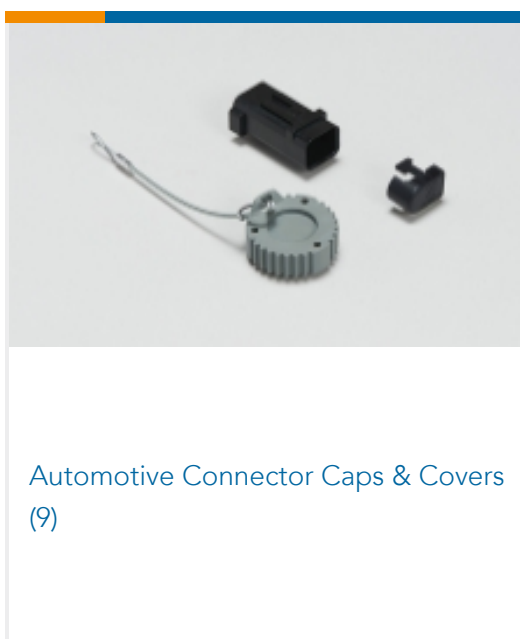


TE Part # 0515-010-4005
PROTECT CVR, 40P, PLG, YEL, AEC

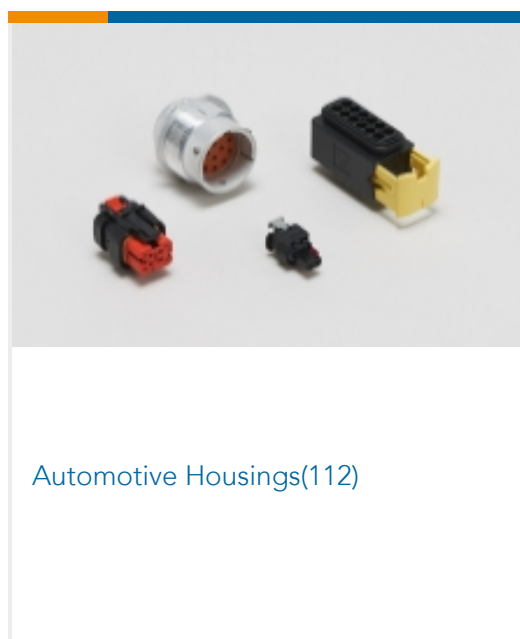


TE Part # YAEC40-BT-STPDWN-0
BOOT, 40P, PLG/REC, STEP, ST, BLK

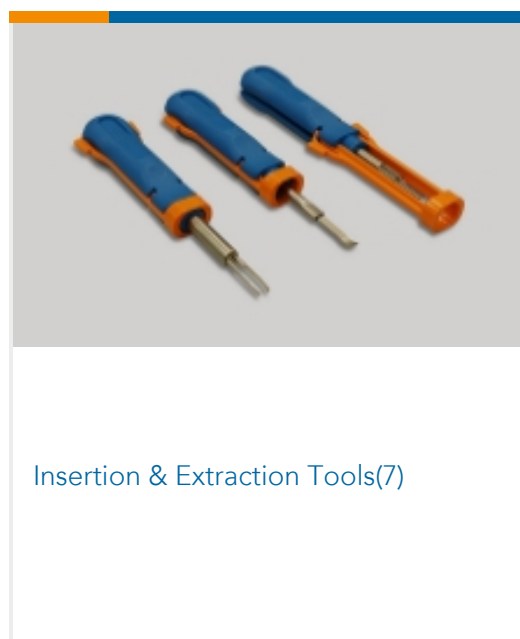
Also in the Series | **DEUTSCH DRC**



Automotive Connector Caps & Covers
(9)



Automotive Housings(112)



Insertion & Extraction Tools(7)



PCB Headers & Receptacles(41)

Customers Also Bought



TE Part #HD36-18-8PN-059
PLG,8P,AL,N, CBL CLMP BT, DRAIN,
12,P,MC



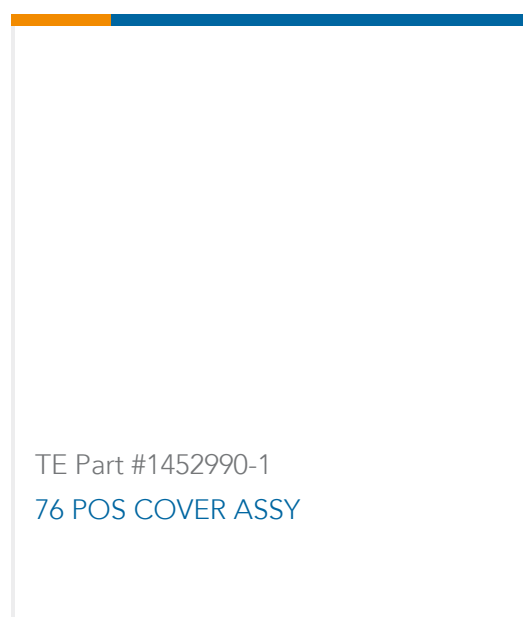
TE Part #AEC16-40SC
DEUTSCH DRC HOUSINGS



TE Part #HD14-9-96P
INL REC ASM



TE Part #DT04-12PA-BE03
REC, 12P, BLK, N, ENH KEY, CAP, A



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