

AEC16-40SB ✓ ACTIVE

DEUTSCH | DEUTSCH DRC

TE Internal #: AEC16-40SB

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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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 \(112\)](#)

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

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

Electrical Characteristics

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|------------------------------|------------|
| Operating Voltage | 250 VAC |
| Nominal Voltage Architecture | 12 V, 24 V |

Body Features

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|------------------|------|
| Cable Exit Angle | 180° |
|------------------|------|



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|-----------------------|-------|
| Primary Product Color | Black |
|-----------------------|-------|

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|-------------------------|---|
| Connector & Keying Code | B |
|-------------------------|---|

Contact Features

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|--------------|---------|
| 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 |
|------------------------------|------|

Mechanical Attachment

| | |
|-----------------------------|----|
| 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) |
|-------------------------|----------------------------|

Housing Features

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|------------------|----------------------|
| Housing Material | PEI (Polyetherimide) |
|------------------|----------------------|

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|--------------------|-------------------|
| Centerline (Pitch) | 5.41 mm [.213 in] |
|--------------------|-------------------|

Dimensions

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|------------------|---------------------|
| Connector Height | 45.16 mm [1.778 in] |
|------------------|---------------------|

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|---------------|---------------------|
| Product Width | 46.43 mm [1.828 in] |
|---------------|---------------------|

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|----------------|--------------------|
| Product Length | 36.58 mm [1.44 in] |
|----------------|--------------------|

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|--------------------|-------------------|
| Row-to-Row Spacing | 5.41 mm [.213 in] |
|--------------------|-------------------|

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|--------------------------------------|------------------------------|
| Compatible Insulation Diameter Range | 2.54 – 3.4 mm [.1 – .134 in] |
|--------------------------------------|------------------------------|

Usage Conditions

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|-----------------------------|-----------------|
| Operating Temperature (Max) | 125 °C [257 °F] |
|-----------------------------|-----------------|

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

Operation/Application

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|---------------------|----------------|
| Circuit Application | Power & Signal |
|---------------------|----------------|

Industry Standards

| | |
|----------------------|------------|
| Degree of Protection | Not Tested |
|----------------------|------------|

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|-----------------|-----------|
| Agency/Standard | 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 | <p>Current ECHA Candidate List: JUNE 2023 (235) Candidate List Declared Against: JUNE 2023 (235) SVHC > Threshold: Octamethylcyclotetrasiloxane (D4) (.5% in Component Part) Dodecamethylcyclohexasiloxane (D6) (.5% in Component Part) Decamethylcyclopentasiloxane (D5) (.5% in Component Part)</p> <p>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.</p> |
|--|---|

| | |
|-----------------|---|
| Halogen Content | Low Halogen - Br, Cl, F, I < 900 ppm per homogenous material. Also BFR/CFR/PVC Free |
|-----------------|---|

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| 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 # CAT-J67-DSCC16
DEUTSCH Size 16 Crimp Contacts




TE Part # CAT-D48-SP729
DEUTSCH Sealing Plugs



TE Part # CAT-D48-ST273
DEUTSCH Solid Contacts



TE Part # AEC14-40PB
REC, 40P, BLK, N, B




TE Part # CAT-D799-H342
DEUTSCH DRC Headers



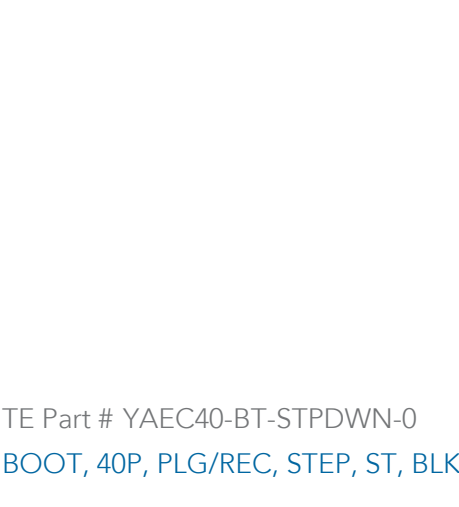
TE Part # 0411-291-1405
EXT TOOL, SIZE 16, 14-16 AWG, N, GRN



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


Also in the Series | **DEUTSCH DRC**




Automotive Housings(112)



Connector Backshells(6)



Connector Strain Relief(3)



Insertion & Extraction Tools(7)



PCB Headers & Receptacles(44)

Customers Also Bought



TE Part #1062-16-0988
SOC, SF, SIZE 16, 14-18, PD/NI/AU



TE Part #AEC16-40SC
PLG, 40P, BLK, N, C



TE Part #776430-4
AS 16, 3P CAP ASSY, KEY 4



TE Part #YHDP24-18-14PEC041
REC, 14P, BLK, E, KEY, 16, P



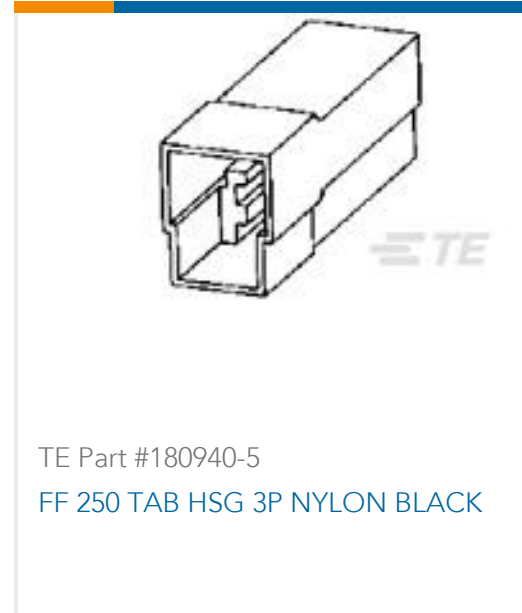
TE Part #2-967627-1
TAB HSG 2.8MM 12POS.



TE Part #DT06-12SA-EP08
PLG, 12P, BLK, N, SEAL RET, ENH KEY, CAP, A



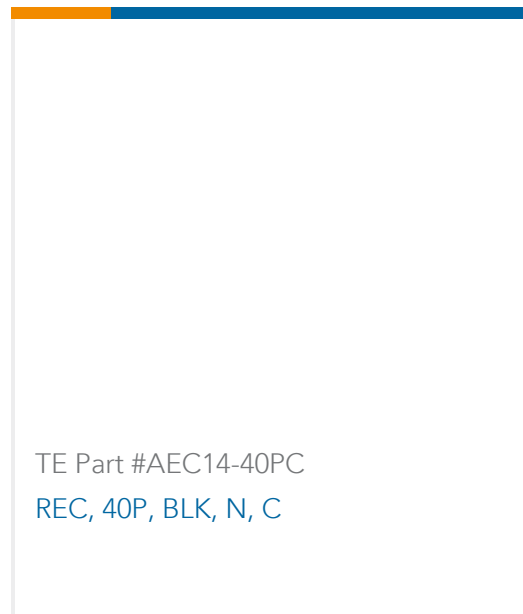
TE Part #2098762-4
Contact, female 0.64, 22 AWG, CuNiSi, Sn



TE Part #180940-5
FF 250 TAB HSG 3P NYLON BLACK



TE Part #4060-001-16141
PIN, SOLID, SIZE 16, 16-18AWG, NI



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

Documents

Product Drawings

PLG, 40P, BLK, N, B

English

CAD Files

3D PDF

3D

Customer View Model

[ENG_CVM_CVM_AEC16-40SB_D.2d_dxf.zip](#)

English

Customer View Model

[ENG_CVM_CVM_AEC16-40SB_D.3d_igs.zip](#)

English

Customer View Model

[ENG_CVM_CVM_AEC16-40SB_D.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