



1.5/2.8 Connector System

TE Internal #: 2098377-1

Housing for Female Terminals, Wire-to-Wire, 20 Position, 3.52 mm [.138 in] Centerline, Black, Wire & Cable, Power & Signal, 1.5/2.8 Connector System

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Connectors > Automotive Connectors > Automotive Housings



Connector System: **Wire-to-Wire**  
Number of Positions: **20**  
Connector & Housing Type: **Housing for Female Terminals**  
Centerline (Pitch): **3.52 mm [.138 in]**  
Sealable: **No**

Features

Product Type Features

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

Configuration Features

|                     |    |
|---------------------|----|
| Number of Positions | 20 |
| Number of Rows      | 2  |

Electrical Characteristics

|                              |      |
|------------------------------|------|
| Nominal Voltage Architecture | 12 V |
|------------------------------|------|

Body Features

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



|                         |       |
|-------------------------|-------|
| Primary Product Color   | Black |
| Connector & Keying Code | A     |

Contact Features

|                  |                                 |
|------------------|---------------------------------|
| Contact Size     | 1.5mm, 2.8mm                    |
| Contact Type     | Receptacle                      |
| Mating Tab Width | 1.5 mm, 2.8 mm[.059 in][.11 in] |

Mechanical Attachment

|                             |                            |
|-----------------------------|----------------------------|
| Terminal Position Assurance | Yes                        |
| Strain Relief               | Without                    |
| Mating Alignment Type       | Keyed                      |
| Mating Alignment            | With                       |
| Connector Mounting Type     | Cable Mount (Free-Hanging) |

Housing Features

|                    |                  |
|--------------------|------------------|
| Housing Material   | PBT GF           |
| Centerline (Pitch) | 3.52 mm[.138 in] |

Dimensions

|                    |                 |
|--------------------|-----------------|
| Row-to-Row Spacing | 6.2 mm[.244 in] |
|--------------------|-----------------|

Usage Conditions

|                             |                            |
|-----------------------------|----------------------------|
| Operating Temperature (Max) | 125 °C[257 °F]             |
| Operating Temperature Range | -30 – 125 °C[-22 – 257 °F] |

Operation/Application

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

Industry Standards

|                                           |             |
|-------------------------------------------|-------------|
| Compatible With Agency/Standards Products | SAE/USCAR-2 |
|-------------------------------------------|-------------|

Packaging Features

|                    |        |
|--------------------|--------|
| Packaging Quantity | 390    |
| Packaging Method   | Carton |

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>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 applicable 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 # 2098380-1  
20 POS HYBRID UNSEALED CAP KY-A  
STD CLIP



TE Part # 2098378-1  
20P PLUG HOUSING KEY A



TE Part # 2098380-7  
20 POS HYBRID UNSEALED CAP KY-A  
ECP CLIP

Also in the Series | 1.5/2.8 Connector System



Automotive Connector Caps & Covers  
(4)



Automotive Housings(27)



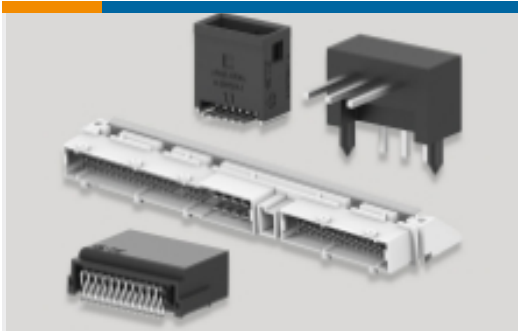
Automotive Terminals(50)



Insertion & Extraction Tools(1)



Other Automotive Connector  
Accessories(1)

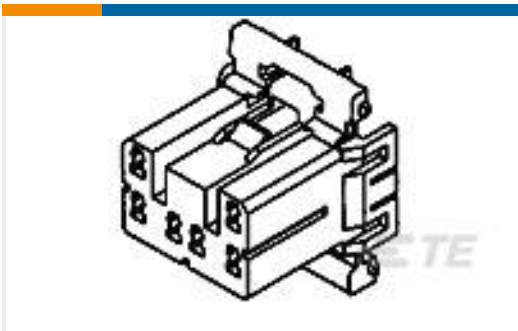


PCB Headers & Receptacles(1)

Customers Also Bought



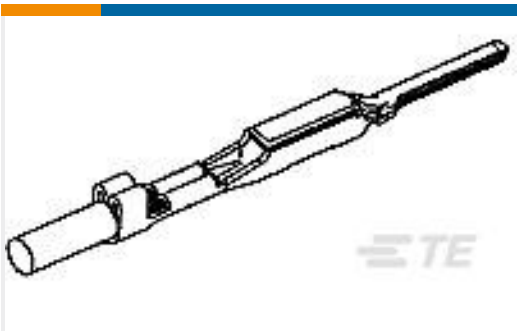
TE Part #368037-2  
PL 250 REC 0.30-0.56MM2 0.40X21.  
OPRE-TIN



TE Part #282366-1  
070 MULTILOCK PLUG HSG. 8 POS



TE Part #2272431-1  
1X6 GET UNSLD SIDE LATCH PLUG,  
KEY A



TE Part #1376039-1  
040 NK TAB CONT PRE TIN



TE Part #1719957-1  
GET 0.64 TERMINAL WIRE SIZE 0.



TE Part #2098067-2  
Plug Assembly, Hybrid, BCM, IP2, B  
Key



TE Part #1924340-1  
36P, 2 Row Carrier for 54P LAC



TE Part #1924396-1  
14P MCON 1.2 SCCM Inner Housing



TE Part #2288276-1  
Assy,Plug,USCAR,GenY,20p,Key A, No  
CPA



TE Part #3-2208804-5  
53POS MIXED MQS REC SEALED  
COD 3

Documents



Product Drawings

20P PLUG ASSEMBLY UNSEALED HYBRID A-KEY

English

CAD Files

3D PDF

3D

Customer View Model

ENG\_CVM\_CVM\_2098377-1\_A\_c-2098377-1-a.2d\_dxf.zip

English

Customer View Model

ENG\_CVM\_CVM\_2098377-1\_A\_c-2098377-1-a.3d\_igs.zip

English

Customer View Model

ENG\_CVM\_CVM\_2098377-1\_A\_c-2098377-1-a.3d\_stp.zip

English

By downloading the CAD file I accept and agree to the [Terms and Conditions](#) of use.

Instruction Sheets

Instruction Sheet (U.S.)

English