



**MATE-AX**

TE Internal #: 2298721-5

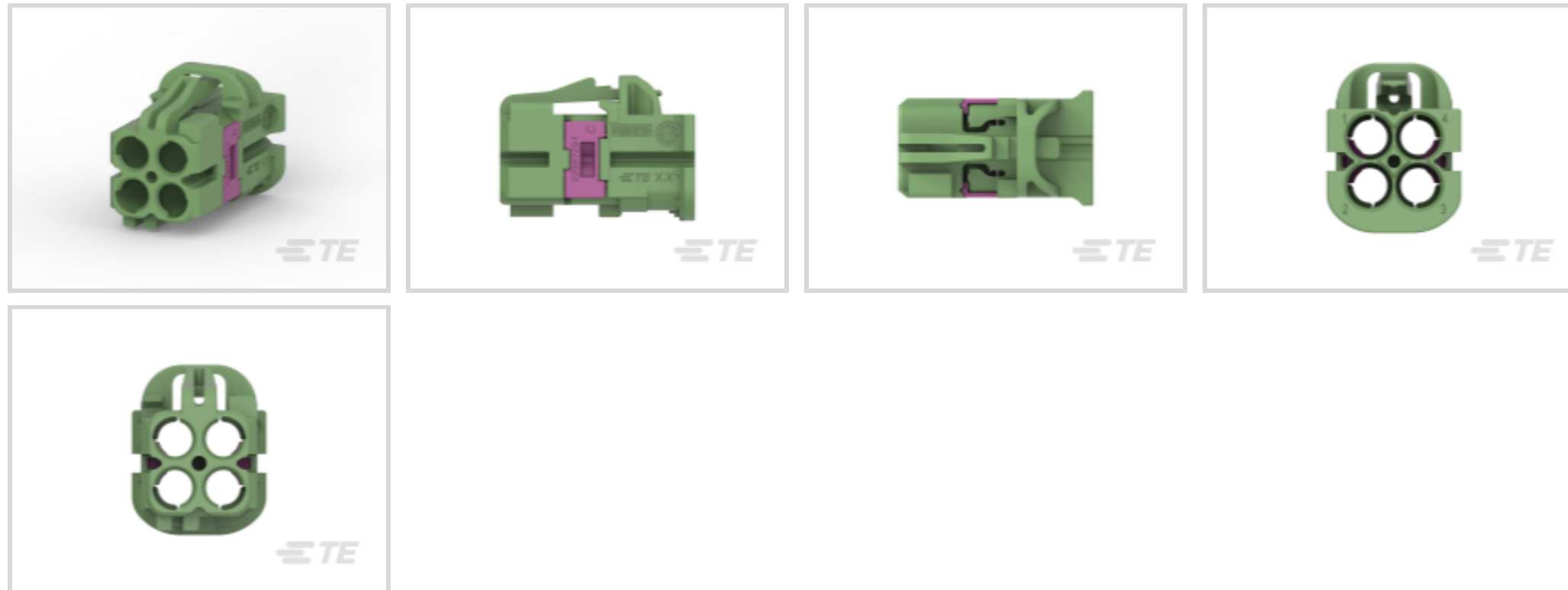
Data Connectivity Housings, Housing for Female Terminals, Keying

Code E, Cable-to-Board / Cable-to-Cable, 4 Position, 4 mm

Centerline, MATE-AX

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Connectors > Automotive Connectors > Data Connectivity Systems > Data Connectivity Housings



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

Mating Pin Diameter: **.4 mm [ .016 in ]**

Keying Code: **E**

Connector System: **Cable-to-Board, Cable-to-Cable**

Number of Positions: **4**

**Features**

**Product Type Features**

|                                   |                                |
|-----------------------------------|--------------------------------|
| Hybrid Connector                  | No                             |
| Connector & Housing Type          | Housing for Female Terminals   |
| Connector System                  | Cable-to-Board, Cable-to-Cable |
| Sealable                          | No                             |
| Connector & Contact Terminates To | Wire & Cable                   |

**Configuration Features**

|                         |         |
|-------------------------|---------|
| Fiber Optic Transceiver | Without |
| Snap-Lock               | With    |
| Keying Code             | E       |
| Number of Positions     | 4       |

**Electrical Characteristics**

|                   |        |
|-------------------|--------|
| Impedance         | 50 Ω   |
| Operating Voltage | 60 VDC |

**Signal Characteristics**



|                           |               |
|---------------------------|---------------|
| Operating Frequency Range | 0 – 10000 MHz |
|---------------------------|---------------|

### Body Features

|                          |                |
|--------------------------|----------------|
| Environmental Protection | Without        |
| Cable Exit Type          | Straight       |
| Body Material            | PA GF          |
| Cable Exit Angle         | 180° (In-Line) |

### Contact Features

|  |                 |
|--|-----------------|
| Center Contact                               | With            |
| Contact Type                                 | Socket          |
| Contact Mating Area Plating Material         | Silver (Ag)     |
| RF Connector Center Contact Plating Material | Silver          |
| Mating Pin Diameter                          | .4 mm [.016 in] |
| Contact Current Rating (Max)                 | 3 A             |

### Termination Features

|                                    |       |
|------------------------------------|-------|
| Termination Method to Wire & Cable | Crimp |
|------------------------------------|-------|

### Mechanical Attachment

|                         |                            |
|-------------------------|----------------------------|
| Mounting Feature        | Without                    |
| Mating Retention        | Without                    |
| Connector Mounting Type | Cable Mount (Free-Hanging) |

### Housing Features

|                    |           |
|--------------------|-----------|
| Housing Color      | May Green |
| Centerline (Pitch) | 4 mm      |

### Dimensions

|                |         |
|----------------|---------|
| Product Width  | 11.1 mm |
| Product Length | 18.8 mm |
| Product Height | 14 mm   |

### Usage Conditions

|                             |   |
|-----------------------------|---|
| Operating Temperature (Max) | 65 °C, 70 °C, 75 °C, 80 °C, 85 °C, 90 °C, 100 °C, 105 °C [149 °F][158 °F][167 °F][176 °F][185 °F][194 °F][212 °F][221 °F] |
| Cable Type                  | RTK 031   |
| Operating Temperature Range | -40 – 105 °C [-40 – 221 °F]   |



### Operation/Application

|                     |        |
|---------------------|--------|
| Shielded            | No     |
| Circuit Application | Signal |

### Industry Standards

|                 |               |
|-----------------|---------------|
| Agency/Standard | USCAR / LV214 |
|-----------------|---------------|

### Packaging Features

|                    |      |
|--------------------|------|
| Packaging Quantity | 2700 |
| Packaging Method   | Box  |

### Other

|                                |          |
|--------------------------------|----------|
| Outer Contact Plating Material | Tin (Sn) |
| Dielectric Material            | None     |

### 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)<br>Candidate List Declared Against: JAN 2022 (223)<br>SVHC > Threshold:<br>Not Yet Reviewed |
| Halogen Content                               | BFR/CFR/PVC Free, but Br/Cl >900 ppm in other sources.   |
| 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 # 1-2304168-1  
4POS MATE-AX, HDR ASSY REV.,90 DEG,COD A



TE Part # 1-2304168-5  
4POS MATE-AX, HDR ASSY REV.,90 DEG,COD E



TE Part # 1-2321775-1  
4POS,MATE-AX,HDR ASSY Rev., 90DEG,COD A



TE Part # 1-2321775-2  
4POS,MATE-AX,HDR ASSY Rev., 090DEG,COD B



TE Part # 1-2321775-4  
4POS,MATE-AX,HDR ASSY Rev., 90DEG,COD D



TE Part # 1-2321775-5  
4POS,MATE-AX,HDR ASSY Rev., 90DEG,COD E



TE Part # 1-2321775-9  
4POS,MATE-AX,HDR ASSY Rev., 90DEG,COD Z



TE Part # 2-2298724-5  
4POS,MATE-AX,PIN HSG ASSY, 180DEG,COD E



TE Part # 2-2362803-5  
4POS,MATE-AX,PIN HSG ASSY,COD E,7MMCLIP



TE Part # 2298729-1  
TPA SOC HSG,4POS,MATE-AX



TE Part # 2304168-1  
4POS MATE-AX, HDR ASSY,90 DEG, COD A



TE Part # 2304168-5  
4POS MATE-AX, HDR ASSY,90 DEG, COD E




TE Part # 2321775-5  
4POS,MATE-AX,HDR ASSY,90DEG, COD E

## Also in the Series | MATE-AX



Automotive Connector Locks & Position Assurance(2)



Data Connectivity Headers(30)



Data Connectivity Housings(45)



PCB Headers & Receptacles(5)

## Customers Also Bought



## Documents

### Product Drawings

[4POS,MATE-AX,SOC HSG ASSY,180DEG,COD E](#)

English

[4POS,MATE-AX,SOC HSG ASSY,180DEG,COD E](#)

English

### CAD Files

[3D PDF](#)

3D

Customer View Model

[ENG\\_CVM\\_CVM\\_2298721-5\\_C.2d\\_dxf.zip](#)

English

Customer View Model

[ENG\\_CVM\\_CVM\\_2298721-5\\_C.3d\\_igs.zip](#)

English

Customer View Model

[ENG\\_CVM\\_CVM\\_2298721-5\\_C.3d\\_stp.zip](#)

English

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### Product Specifications

[Application Specification](#)

English