

1394081-1 ✓ ACTIVE

AMP | Round Connector System

TE Internal #: 1394081-1

Housing for Female Terminals, Wire-to-Wire, 31 Position, .197 in [5 mm] Centerline, Sealable, Black, Round Connector System

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Connectors > Automotive Connectors > Connector Housings



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

Mating Pin Diameter: **1.5 mm, 2.5 mm [ .059 in, .098 in ]**

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

Number of Positions: **31**

Centerline (Pitch): **5 mm [ .197 in ]**

## Features

### Product Type Features

Connector Shape	Circular
Connector & Housing Type	Housing for Female Terminals
Connector System	Wire-to-Wire
Sealable	Yes
Hybrid Connector	Yes
Primary Locking Feature	On the Terminal

### Configuration Features

Number of Positions	31
Number of Rows	6

### Electrical Characteristics

Operating Voltage	24 VDC
Nominal Voltage Architecture	12 V, 24 V

### Body Features

Cable Exit Angle	180°, Other
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Body Material	PBT GF
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Primary Product Color	Black
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### Contact Features

Contact Size	1.5mm, 2.5mm
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Contact Type	Socket
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Mating Pin Diameter	1.5 mm, 2.5 mm [.059 in][.098 in]
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### Mechanical Attachment

Mounting Feature	Without
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Terminal Position Assurance	Yes
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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 mm [.197 in]
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### Dimensions

Product Width	43.4 mm [1.709 in]
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Product Length	65.8 mm [2.591 in]
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Product Height	65.8 mm [2.591 in]
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Row-to-Row Spacing	5.5 mm [.217 in]
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### Usage Conditions

Operating Temperature (Max)	70 °C, 75 °C, 80 °C, 85 °C, 90 °C, 100 °C, 105 °C, 110 °C, 120 °C [158 °F][167 °F][176 °F][185 °F][194 °F][212 °F][221 °F][230 °F][248 °F]
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Operating Temperature Range	-40 – 120 °C [-40 – 248 °F]
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### Industry Standards

Degree of Protection	IP67, IP69K
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UL Flammability Rating	UL 94HB
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### Packaging Features

Packaging Quantity	162
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Packaging Method	Loose Piece
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### 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: JUL 2021 (219) 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 # CAT-R7602-T273  
ROUND CONNECTOR SYSTEM, PIN AND SOCKET



TE Part # CAT-C4962-B128  
CIRCULAR DIN BACKSHELLS



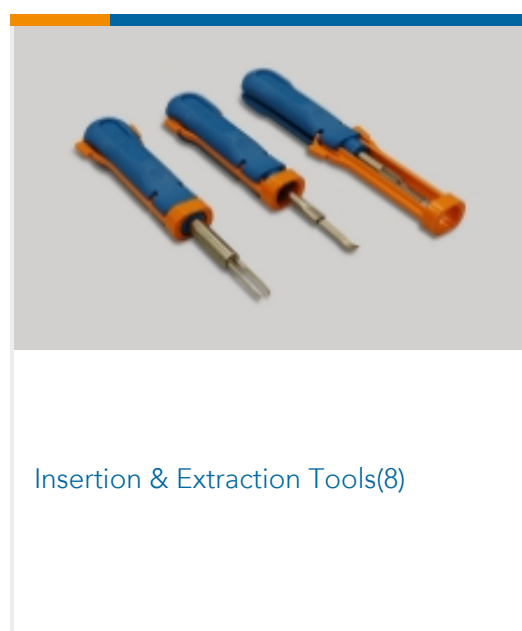
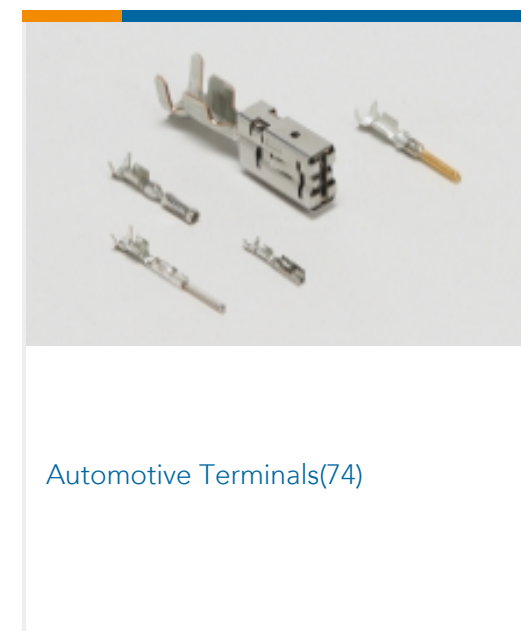
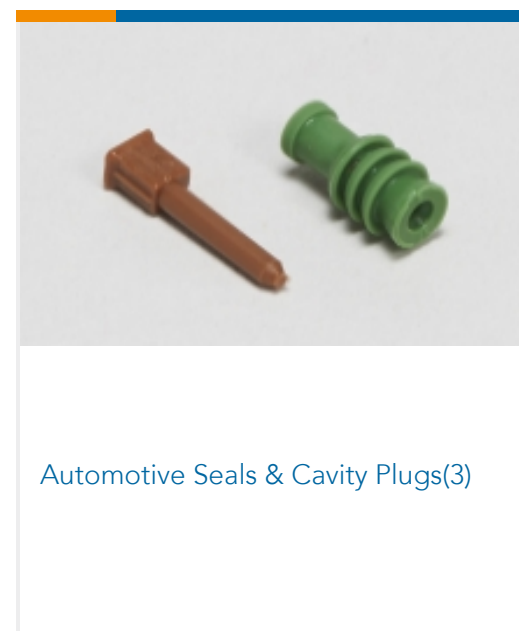
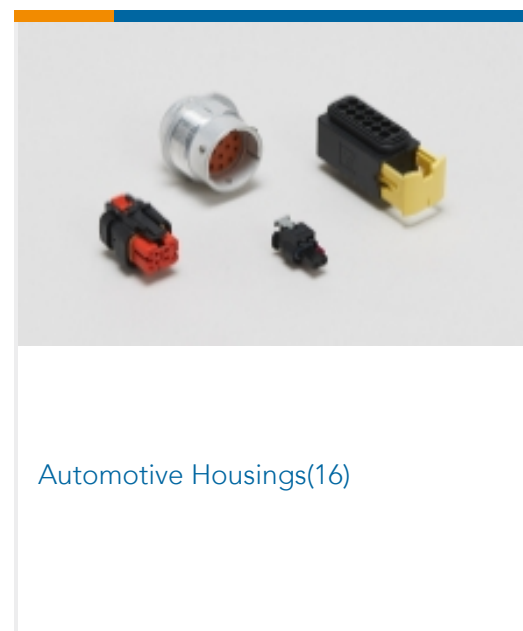
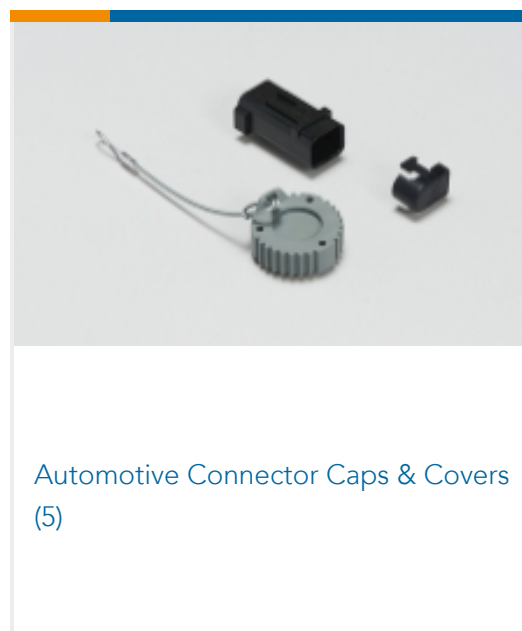
TE Part # 1718232-1  
1,5MM /2.5MM PIN HSG 31POS



TE Part # 828986-1  
DICHT-STOPFEN



## Also in the Series | Round Connector System



## Documents

### Product Drawings

1,5/2,5MM BU-GEH31P

English

### CAD Files

3D PDF

English

Customer View Model

[ENG\\_CVM\\_1394081-1\\_B1.2d\\_dxf.zip](#)

English

Customer View Model

[ENG\\_CVM\\_1394081-1\\_B1.3d\\_igs.zip](#)

English

Customer View Model

[ENG\\_CVM\\_1394081-1\\_B1.3d\\_stp.zip](#)

English

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

[Product Specifications](#)

[Application Specification](#)

German