



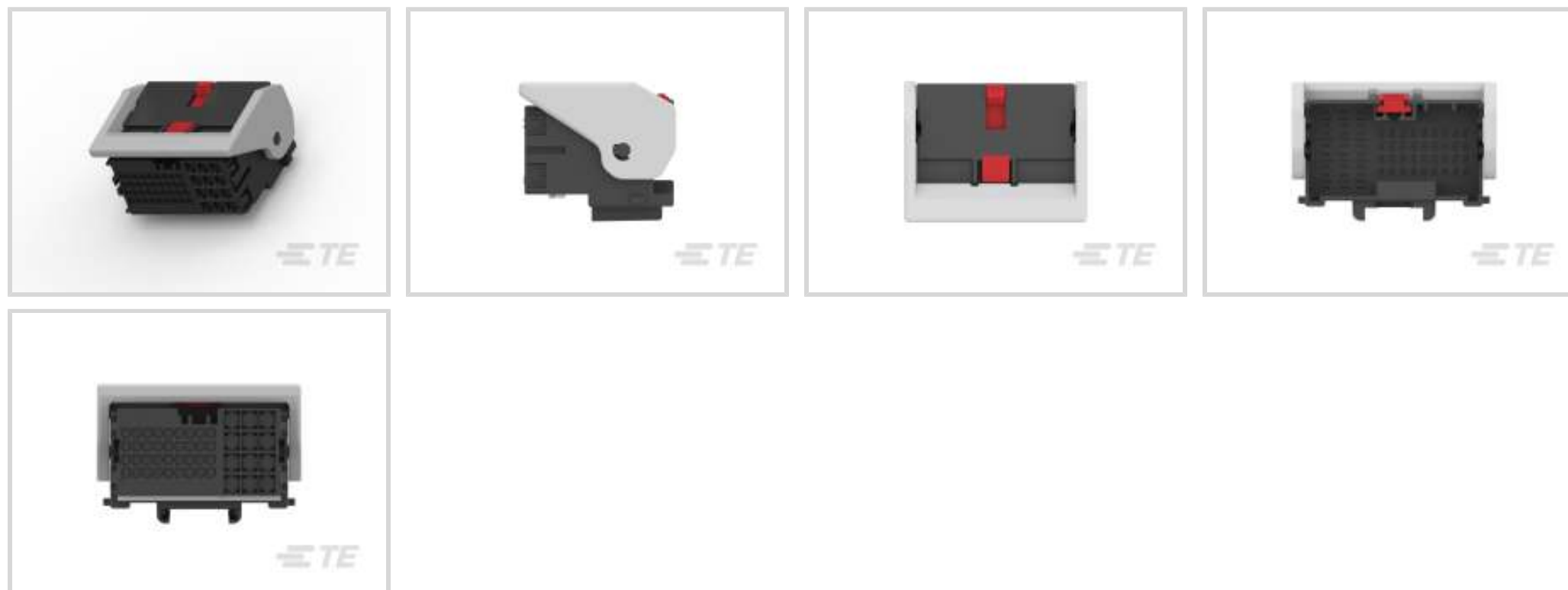
1.5/2.8 Connector System

TE Internal #: 5-2109455-2

Housing for Male Terminals, Wire-to-Wire, 48 Position, .118 in [3 mm] Centerline, Black, Signal, Cable Mount (Free-Hanging), 1.5/2.8 Connector System

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Connectors > Automotive Connectors > Automotive Housings



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

Number of Positions: **48**

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

Centerline (Pitch): **3 mm [ .118 in ]**

Sealable: **No**

**Features**

**Product Type Features**

Hybrid Connector	Yes
Connector Shape	Rectangular
Connector System	Wire-to-Wire
Connector & Housing Type	Housing for Male Terminals
Sealable	No
Primary Locking Feature	On the Terminal

**Configuration Features**

Number of Positions	48
Number of Rows	4

**Electrical Characteristics**

Operating Voltage	12 VDC
Nominal Voltage Architecture	12 V

**Body Features**

Cable Exit Angle	180°
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Primary Product Color	Black
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Connector & Keying Code	A
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### Contact Features

Contact Size	1.2mm, 2.8mm
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Contact Type	Tab
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Mating Tab Width	1.2 mm[.047 in]
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### Mechanical Attachment

Terminal Position Assurance	Yes
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Strain Relief	Without
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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

Housing Material	PBT GF
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Centerline (Pitch)	3 mm[.118 in]
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### Dimensions

Product Width	58 mm[2.283 in]
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### Usage Conditions

Operating Temperature (Max)	70 °C, 75 °C, 80 °C, 85 °C, 90 °C, 100 °C, 105 °C[158 °F][167 °F][176 °F][185 °F][194 °F][212 °F][221 °F]
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Operating Temperature Range	-40 – 105 °C[-40 – 221 °F]
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### Operation/Application

Circuit Application	Signal
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### Packaging Features

Packaging Quantity	24
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Packaging Method	Tray
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### Other

Serviceable	Yes
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Connector Position Assurance Capable	Yes
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### Product Compliance

For compliance documentation, visit the product page on [TE.com](https://www.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 2023 (235) Candidate List Declared Against: JUNE 2023 (235) 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 # 1418762-1  
MCON 1.2 LL TAB STC SN



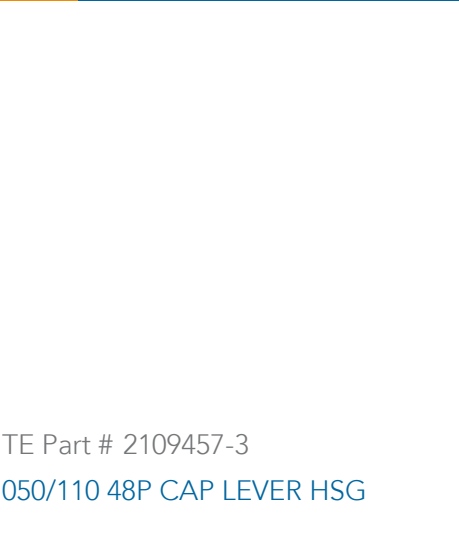
TE Part # CAT-T4827-T273  
TIMER, RECEPTACLE AND TAB



TE Part # 2109452-2  
050/110 48P PLUG ASSY CODE A



TE Part # 2109456-2  
050/110 48P CAP HSG CODE A

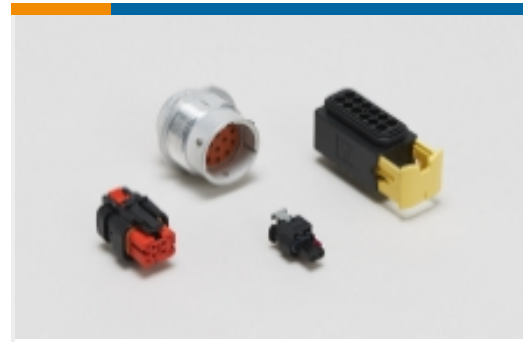


TE Part # 2109457-3  
050/110 48P CAP LEVER HSG

## Also in the Series | 1.5/2.8 Connector System



Automotive Connector Caps & Covers (6)



Automotive Housings(35)



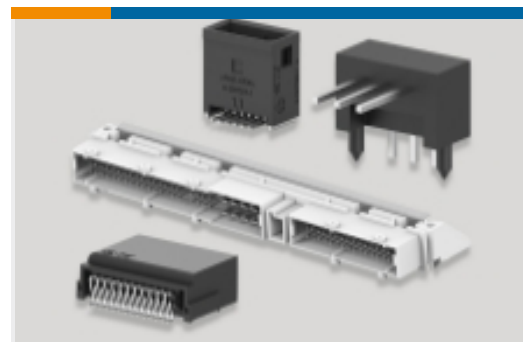
Automotive Terminals(56)



Insertion & Extraction Tools(1)



Other Automotive Connector Accessories(1)



PCB Headers & Receptacles(1)

## Customers Also Bought



TE Part #1897255-2  
SLOT CLIP FOR J300



TE Part #1743064-2  
MT-2/JPT SLD 36P PLUG COVER BK



TE Part #1743757-2  
SPT SEALED 3P CAP HSG



TE Part #1-2005275-3  
MT3/JPT/SPT HYB 58P CAP ASSY



TE Part #1897015-2  
MT-2/JPT SLD 26P CAP COVER



TE Part #2005281-3  
MT3/JPT/SPT HYB 58P PLUG ASSY



TE Part #2109452-2  
050/110 48P PLUG ASSY CODE A



TE Part #3-2005275-3  
MT3/JPT/SPT HYB 58P CAP ASSY



TE Part #1897540-2  
MQS/MCP HYB 22P CAP ASSY



TE Part #2109209-2  
JPT 1P CAP HSG



## Documents

### Product Drawings

[050/110 48P CAP ASSY CODE A](#)

English

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### CAD Files

[3D PDF](#)

3D

Customer View Model

[ENG\\_CVM\\_CVM\\_5-2109455-2\\_A.2d\\_dxf.zip](#)

English

Customer View Model

[ENG\\_CVM\\_CVM\\_5-2109455-2\\_A.3d\\_igs.zip](#)

English

Customer View Model

[ENG\\_CVM\\_CVM\\_5-2109455-2\\_A.3d\\_stp.zip](#)

English

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### Product Specifications

[050 110 48P](#)

English