

5-87165-2 ✓ ACTIVE

## AMPMODU

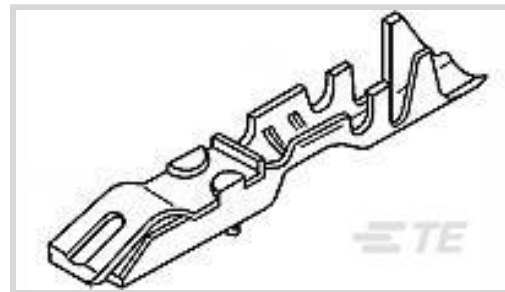
TE Internal #: 5-87165-2

Connector Contact, Socket, Wire-to-Board, 26 – 22 AWG Wire Size,  
254.1 – 642.4 CMA Wire Size, .12 – .4 mm<sup>2</sup> Wire Size, Tin, Loose  
Piece, Wire & Cable

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Connectors > PCB Connectors > Wire-to-Board Connectors > Wire-to-Board Connector Contacts



Contact Type: **Socket**

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

Wire Size: .12 – .4 mm<sup>2</sup>

### Features

#### Product Type Features

|                                   |               |
|-----------------------------------|---------------|
| Connector System                  | Wire-to-Board |
| Connector & Contact Terminates To | Wire & Cable  |

#### Electrical Characteristics

|                                       |         |
|---------------------------------------|---------|
| Termination Resistance                | 12 mΩ   |
| Insulation Resistance                 | 5000 MΩ |
| Dielectric Withstanding Voltage (Max) | 750 V   |
| Operating Voltage                     | 250 VAC |

#### Contact Features

|  |                 |
|--|-----------------|
| Mating Square Post Dimension                   | .64 mm[.025 in] |
|  | 100 μin         |
| Wire Contact Termination Area Plating Material | Tin             |
| Contact Shape & Form                           | Square          |
| Contact Underplating Material                  | Nickel          |
| PCB Contact Termination Area Plating Material  | Gold Flash      |
| Contact Base Material                          | Phosphor Bronze |
| Contact Type                                   | Socket          |
| Contact Mating Area Plating Material           | Tin             |
| Contact Current Rating (Max)                   | 3 A             |

#### Termination Features

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



### Mechanical Attachment

|                         |      |
|-------------------------|------|
| Wire Insulation Support | With |
|-------------------------|------|

### Dimensions

|                                      |                                |
|--------------------------------------|--------------------------------|
| Compatible Insulation Diameter Range | .97 – 1.57 mm [.038 – .062 in] |
| Wire Size                            | .12 – .4 mm <sup>2</sup>       |

### Usage Conditions

|                             |                             |
|-----------------------------|-----------------------------|
| Operating Temperature Range | -65 – 105 °C [-85 – 221 °F] |
|-----------------------------|-----------------------------|

### Operation/Application

|                     |        |
|---------------------|--------|
| Circuit Application | Signal |
|---------------------|--------|

### Industry Standards

|                    |           |
|--------------------|-----------|
| Approved Standards | UL E28476 |
|--------------------|-----------|

### Packaging Features

|                    |             |
|--------------------|-------------|
| Packaging Quantity | 1000        |
| Packaging Method   | Loose Piece |

### Other

|                            |   |
|----------------------------|---|
| Connector Contacts Comment | (*) For use with Model "K" machines. Call the Technical Assistance Center (1-800-522-6752) for any tooling questions., These contacts must be crimped per AMP Specification No. 114-25006 in order to function properly in a connector housing. |
|----------------------------|---|

### Product Compliance

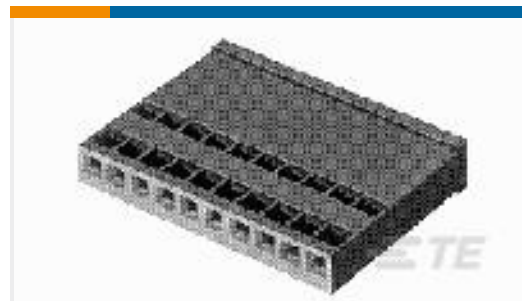
[For compliance documentation, visit the product page on TE.com>](#)

|   |   |
|---|---|
| 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 2023 (235)<br>Candidate List Declared Against: JUNE 2023 (235)<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>

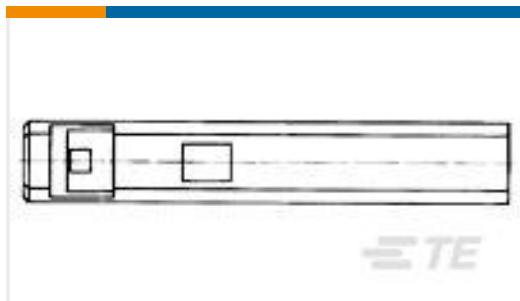
## Compatible Parts



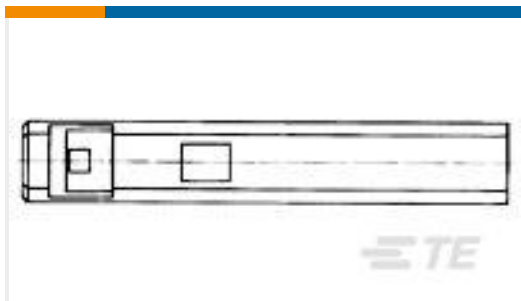
TE Part # 87175-2  
01 LOCKING CLIP HSG SR .100CL



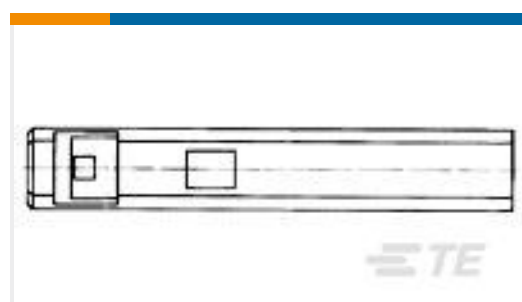
TE Part # 87133-1  
04 LOCKING CLIP HSG DR .100CL



TE Part # 926657-6  
LOCKING CLIP HSG



TE Part # 926657-3  
3P LOCKG CLIP GEH



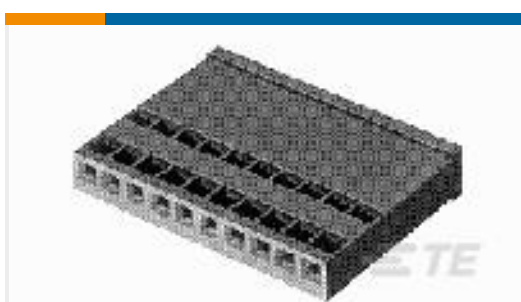
TE Part # 926657-4  
LOCKING CLIP HSG



TE Part # 1-87175-0  
04 LOCKING CLIP HSG SR .100CL



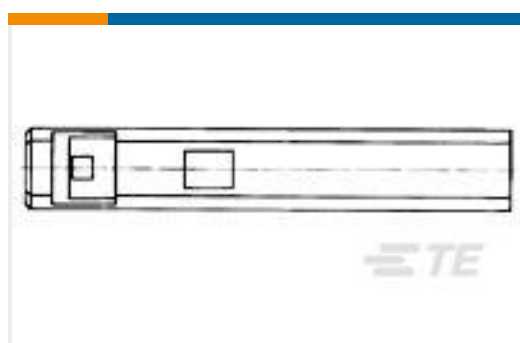
TE Part # 926209-3  
LOCKING CLIP HSG.



TE Part # 1-87175-7  
08 LOCKING CLIP HSG SR MRKD



TE Part # 87133-9  
08 LOCKING CLIP HSG DR .100CL



TE Part # 926010-1  
LOCKING CLIP HSG



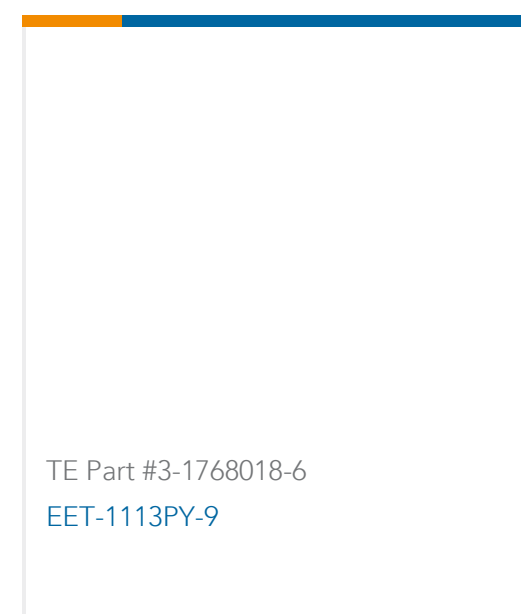
TE Part # 1-87175-2  
05 LOCKING CLIP HSG SR .100CL



TE Part # 87133-2  
10 LOCKING CLIP HSG DR .100CL



## Customers Also Bought



## Documents

### CAD Files

Customer View Model

[ENG\\_CVM\\_5-87165-2\\_R.3d\\_igs.zip](#)

English

Customer View Model

[ENG\\_CVM\\_5-87165-2\\_R.3d\\_stp.zip](#)

English

Customer View Model

[ENG\\_CVM\\_5-87165-2\\_R.2d\\_dxf.zip](#)



English

[3D PDF](#)

English

[3D PDF](#)

3D

Customer View Model

[ENG\\_CVM\\_CVM\\_5-87165-2\\_M.2d\\_dxf.zip](#)

English

Customer View Model

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English

Customer View Model

[ENG\\_CVM\\_CVM\\_5-87165-2\\_M.3d\\_stp.zip](#)

English

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### Datasheets & Catalog Pages

[AMPMODU\\_INTERCONNECTION\\_SYSTEM\\_SECTION5\\_CONT](#)

English

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### Product Specifications

[Application Specification](#)

English

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### Product Environmental Compliance

[TE Material Declaration](#)

English