

87977-3 ✓ ACTIVE

AMPMODU | AMPMODU IV/V

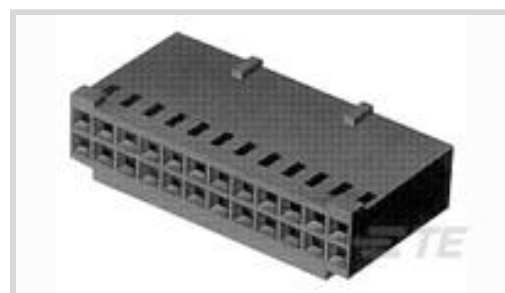
TE Internal #: 87977-3

Housing, Receptacle, Wire-to-Board, 10 Position, .1 in [2.54 mm]  
Centerline, Crimp, 2 Row, Black, Mating Retention, Wire & Cable,  
Signal, AMPMODU IV/V

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Connectors > PCB Connectors > Wire-to-Board Connectors > Wire-to-Board Connector Assemblies & Housings



Connector Product Type: **Housing**

Connector & Housing Type: **Receptacle**

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

Number of Positions: **10**

Centerline (Pitch): **2.54 mm [.1 in]**

## Features

### Product Type Features

|                                   |               |
|-----------------------------------|---------------|
| Connector Product Type            | Housing       |
| Connector & Housing Type          | Receptacle    |
| Connector System                  | Wire-to-Board |
| Connector & Contact Terminates To | Wire & Cable  |

### Configuration Features

|                     |    |
|---------------------|----|
| Number of Positions | 10 |
| Number of Rows      | 2  |

### Electrical Characteristics

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

### Body Features

|                       |       |
|-----------------------|-------|
| Primary Product Color | Black |
|-----------------------|-------|

### Contact Features

|                              |                  |
|------------------------------|------------------|
| Contact Type                 | Socket           |
| Contact Base Material        | Beryllium Copper |
| Contact Current Rating (Max) | 3 A              |



### Termination Features

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

### Mechanical Attachment

|                       |                 |
|-----------------------|-----------------|
| Strain Relief         | Without         |
| Mating Retention Type | Detent Latching |
| Mating Retention      | With            |

### Housing Features

|                             |                  |
|-----------------------------|------------------|
| Housing Entry Configuration | Both Ends Closed |
| Housing Material            | Nylon - GF       |
| Centerline (Pitch)          | 2.54 mm[.1 in]   |

### Dimensions

|                    |                |
|--------------------|----------------|
| Connector Length   | 12.7 mm[.5 in] |
| Connector Height   | 6.1 mm[.24 in] |
| Row-to-Row Spacing | 2.54 mm[.1 in] |

### Usage Conditions

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

### Operation/Application

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

### Industry Standards

|                        |                       |
|------------------------|-----------------------|
| Approved Standards     | CSA LR7189, UL E28476 |
| UL Flammability Rating | UL 94V-0              |

### Packaging Features

|                    |         |
|--------------------|---------|
| Packaging Quantity | 1       |
| Packaging Method   | Package |

### Other

|                                 |   |
|---------------------------------|---|
| Discrete Wire Connector Comment | Cavity identification, AMP, part number and date code stamped on housing where size permits., Strain reliefs are available and may be purchased separately. |
|---------------------------------|---|

### 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: JAN 2023 (233)<br>Does not contain REACH SVHC |
| Halogen Content                               | BFR/CFR/PVC Free, but Br/Cl >900 ppm in other sources.   |
| 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

|  |   |   |   |
|--|---|---|---|
|  <p>TE Part # 5-103167-2<br/>10 MODII HDR DRRA SHRD LF</p>    |  <p>TE Part # 5-103169-3<br/>10 MODII HDR DRST SHRD .100CL</p> |  <p>TE Part # 5-102618-3<br/>10 MODII HDR DRST SHRD .100CL</p> |  <p>TE Part # 5-103168-3<br/>10 MODII HDR DRST SHRD .100CL</p> |
|  <p>TE Part # 5-87589-1<br/>10 MODII HDR DRST SHRD .100CL</p> |  <p>TE Part # 87666-2<br/>MOD IV RECP PLTD 30 SEL</p>          |  <p>TE Part # 87756-6<br/>MOD IV RECP PLTD SN</p>              |  <p>TE Part # 2-87195-4<br/>MOD IV RECP PLTE 15 DPLX</p>       |



|  |  |   |   |
|--|--|---|---|
| <br>TE Part # 87309-9<br>MOD V RECP PLTD 30 AU | <br>TE Part # 102917-5<br>MOD IV RECP PLTD 15 SEL      | <br>TE Part # 87523-5<br>MOD IV RECP PLTD SN            | <br>TE Part # 102548-5<br>MOD IV RECP PLTD 30 SEL     |
| <br>TE Part # 87309-8<br>MOD V RECP PLTD SN    | <br>TE Part # 2-87523-3<br>MOD IV RECP PLTD 15 DPLX    | <br>TE Part # 5-103171-4<br>MOD IV RECP PLTD 30 DPLX LF | <br>TE Part # 85969-8<br>MOD IV RECP PLTD 30 SEL      |
| <br>TE Part # 87666-3<br>MOD IV RECP PLTD SN   | <br>TE Part # 87474-1<br>10 MODII HDR DRST SHRD .100CL | <br>TE Part # 103166-3<br>10 MODII HDR DRRA SHRD .100CL | <br>TE Part # 5-102570-3<br>10 MODII HDR DRRA SHRD LF |

Also in the Series | AMPMODU IV/V

|                              |                                     |  |                                     |
|------------------------------|-------------------------------------|--|-------------------------------------|
| <br>Automotive Housings(2)   | <br>Backplane Connector Housings(1) | <br>Board-to-Board Connector Contacts(6) | <br>Insertion & Extraction Tools(4) |
| <br>PCB Connector Covers(18) | <br>PCB Connector Keying(6)         | <br>PCB Connector Mounting(1)            | <br>PCB Connector Strain Relief(3)  |



PCB Headers & Receptacles(939)



PCB Latches, Locks & Retainers(7)



Rectangular Connector Housings(5)



Standard Rectangular Connectors(8)



Wire-to-Board Connector Assemblies & Housings(465)



Wire-to-Board Connector Contacts (325)

## Customers Also Bought



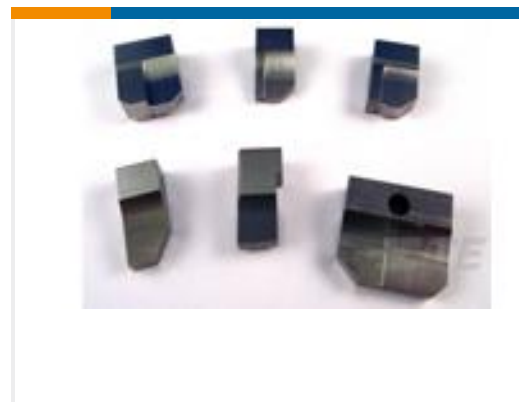
TE Part #1803095-6  
FLOATING SHEAR, FRONT



TE Part #1633965-2  
CRIMPER, INSUL O PREMIUM



TE Part #4-456406-4  
CRIMPER, WIRE .090 'F'



TE Part #5-1333205-6  
ANVIL, COMBINATION .090



TE Part #238011-4  
SPACER, BLOCK CRIMPER (.104)



TE Part #455888-4  
SPACER, CRIMPER(020)



TE Part #1-356885-3  
STOP, SHEAR



TE Part #1-455888-4  
SPACER, CRIMPER((065)



TE Part #2119791-7  
Depressor, Wire

## Documents



### Product Drawings

[10 MODIV HSG DR MRKD .100 POL](#)

English

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### CAD Files

[3D PDF](#)

English

**Customer View Model**

[ENG\\_CVM\\_87977-3\\_S.2d\\_dxf.zip](#)

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### Datasheets & Catalog Pages

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

English

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### Product Specifications

[Application Specification](#)

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### Product Environmental Compliance

[Product Compliance Document](#)

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