

1445538-1 ✓ ACTIVE

AMP | AMP CPC

TE Internal #: 1445538-1

Circular Power Connectors, Housing, 250 VDC, 30 – 18 AWG Wire Size, .0509 – .823 mm<sup>2</sup> Wire Size, Wire-to-Wire, 2 Position, Sealable, AMP CPC

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Connectors > Power Connectors > Circular Power > Circular Power Connectors > Mini Circular Plastic Connectors (CPC)



Connector Product Type: **Housing**

Operating Voltage: **250 VDC**

Wire Size: **.0509 – .823 mm<sup>2</sup>**

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

[All Mini Circular Plastic Connectors \(CPC\) \(53\)](#)

## Features

### Product Type Features

|                                   |              |
|-----------------------------------|--------------|
| Connector Product Type            | Housing      |
| Connector System                  | Wire-to-Wire |
| Sealable                          | Yes          |
| Connector & Contact Terminates To | Wire & Cable |
| Connector & Housing Type          | Receptacle   |
| Circular Connector Shell Type     | All Plastic  |

### Configuration Features

|                            |                             |
|----------------------------|-----------------------------|
| Number of Positions        | 2                           |
| Number of Power Positions  | 0                           |
| Seal Type                  | Peripheral, Wire Entry Seal |
| Number of Signal Positions | 2                           |

### Electrical Characteristics

|                   |         |
|-------------------|---------|
| Operating Voltage | 250 VAC |
|-------------------|---------|



### Contact Features

|                              |       |
|------------------------------|-------|
| Reverse Gender               | No    |
| Contact Type                 | Pin   |
| Contact Current Rating (Max) | 7.5 A |

### Termination Features

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

### Mechanical Attachment

|                          |                                  |
|--------------------------|----------------------------------|
| Screw & Hole Thread Size | 5/8-24 UNEF-2A and 1/2-20 UNF-2A |
| Connector Mounting Type  | Panel Mount                      |
| Mating Alignment         | With                             |
| Mating Retention         | With                             |
| Panel Mount Feature      | With                             |
| Mating Retention Type    | Threaded Coupling                |

### Housing Features

|                               |               |
|-------------------------------|---------------|
| Housing Color                 | Black         |
| Housing Material              | Thermoplastic |
| Circular Connector Shell Size | 8             |

### Dimensions

|  |                               |
|--|-------------------------------|
| Wire Size                              | .0509 – .823 mm <sup>2</sup>  |
| Accepts Wire Insulation Diameter Range | .89 – 1.5 mm [.035 – .059 in] |

### Usage Conditions

|                             |                             |
|-----------------------------|-----------------------------|
| Operating Temperature Range | -55 – 105 °C [-67 – 221 °F] |
| Fluid Resistance            | Immersion                   |

### Operation/Application

|                     |                |
|---------------------|----------------|
| Circuit Application | Power & Signal |
| Shielded            | No             |

### Industry Standards

|                        |          |
|------------------------|----------|
| UL Flammability Rating | UL 94V-0 |
|------------------------|----------|

### Packaging Features

|                    |        |
|--------------------|--------|
| Packaging Method   | Carton |
| Packaging Quantity | 100    |



## 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: JUNE 2022 (224)<br>Does not contain REACH SVHC |
| Halogen Content                               | Not Low Halogen - contains Br or Cl > 900 ppm.  |
| 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

|   |  |   |  |
|---|--|---|--|
|   |  |   |  |
| <p>TE Part # CAT-AM71-C83998EE<br/>Mini Circular Plastic Connectors (CPC)</p> | <p>TE Part # 1604089-1<br/>CAP, DUST, SIZE 8</p> | <p>TE Part # 1445420-1<br/>SEAL, FLANGE, SIZE 8/M13.5</p> | <p>TE Part # 1-770985-0<br/>MINI UMNL PIN 26-22AWG AU LP</p> |



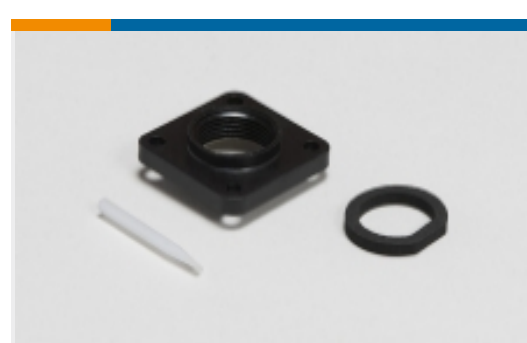
|   |   |   |  |
|---|---|---|--|
|  <p>TE Part # 1-770987-0<br/>MINI UMNL PIN 22-18 AWG AU LP</p>   |  <p>TE Part # 770988-3<br/>MINI UMNL SOK 22-18AWG AU LP</p>   |  <p>TE Part # 1-770988-0<br/>MINI UMNL SOK 22-18AWG AU</p>   |  <p>TE Part # 1-794059-0<br/>MINI UMNL PIN L/P LF</p>         |
|  <p>TE Part # 770988-1<br/>MINI UMNL SOK 22-18AWG SN LP</p>     |  <p>TE Part # 770986-1<br/>MINI UMNL SOK 26-22AWG SN LP</p>  |  <p>TE Part # 770985-1<br/>MINI UMNL PIN 26-22AWG SN LP</p> |  <p>TE Part # 770903-3<br/>MINI UMNL PIN 22-18 AWG AU</p>    |
|  <p>TE Part # 1-770902-1<br/>MINI UMNL SOK 26-22 AWG AU LF</p> |  <p>TE Part # 770902-3<br/>MINI UMNL SOK 26-22 AWG AU</p>   |  <p>TE Part # 1-770835-0<br/>MINI UMNL PIN AU LF</p>       |  <p>TE Part # 1-770903-0<br/>MINI UMNL PIN 22-18 AWG AU</p> |
|  <p>TE Part # 770904-3<br/>MINI UMNL SOK 22-18 AWG AU</p>      |  <p>TE Part # 1-770902-0<br/>MINI UMNL SOK 26-22 AWG AU</p> |  <p>TE Part # 770901-1<br/>MINI UMNL PIN 26-22 AWG SN</p>  |  <p>TE Part # 1-770904-0<br/>MINI UMNL SOK 22-18 AWG AU</p> |

Also in the Series | AMP CPC

|   |   |   |   |
|---|---|---|---|
|  <p>Circular Connector Adapters(7)</p> |  <p>Circular Connector Boots &amp; Strain Relief(6)</p> |  <p>Circular Connector Caps &amp; Covers(16)</p> |  <p>Circular Connector Hardware(3)</p> |
|---|---|---|---|



Circular Connector Keying Plugs(2)



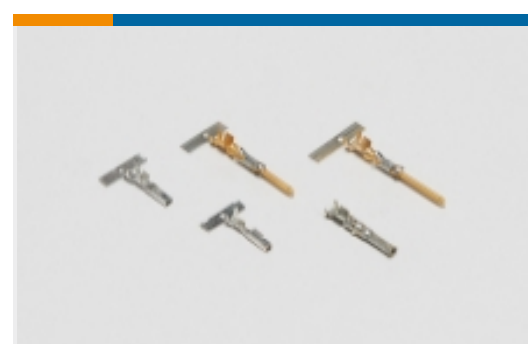
Circular Connector Seals(36)



Circular Power Connectors(467)



Insertion &amp; Extraction Tools(1)



Power Contacts(6)



Sealing Sleeves(2)



Unscreened Circular Connector Backshells &amp; Clamps(56)

## Documents

### Product Drawings

[REC,8-2,FLNG MT,SM INS,STD KEY](#)

English

### CAD Files

[3D PDF](#)

3D

Customer View Model

[ENG\\_CVM\\_CVM\\_1445538-1\\_C.2d\\_dxf.zip](#)

English

Customer View Model

[ENG\\_CVM\\_CVM\\_1445538-1\\_C.3d\\_igs.zip](#)

English

Customer View Model

[ENG\\_CVM\\_CVM\\_1445538-1\\_C.3d\\_stp.zip](#)

English

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

### Datasheets & Catalog Pages

[1-1773902-9\\_CPC\\_Catalog](#)

German

[1-1773902-9\\_CPC\\_Catalog](#)

English

[1-1773902-9\\_CPC\\_Catalog](#)

[1-1773902-9\\_CPC\\_Catalog](#)

Japanese



## AMP Circular Connectors for Commercial Signal & Power Applications Continued

English

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### Product Specifications

#### Application Specification

English