

# PV-C3M-C-6-R3000 - Crimp contact



1050766

<https://www.phoenixcontact.com/us/products/1050766>

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Crimp contact, series: SUNCLIX, Pin, rolled, rated current: 40 A, connection cross section: 6 mm<sup>2</sup> ... 6 mm<sup>2</sup>, AWG 10...10, contact material: Cu

## Your advantages

- High-quality materials ensure a high degree of reliability and long-term stability
- Maximum system efficiency with proven, low-loss SUNCLIX contacts
- International approvals enable worldwide use

## Commercial data

|                                      |               |
|--------------------------------------|---------------|
| Item number                          | 1050766       |
| Packing unit                         | 3,000 pc      |
| Minimum order quantity               | 3,000 pc      |
| Sales key                            | AB02          |
| Product key                          | ABLBFA        |
| GTIN                                 | 4055626670102 |
| Weight per piece (including packing) | 1.67 g        |
| Weight per piece (excluding packing) | 1.708 g       |
| Customs tariff number                | 85366990      |
| Country of origin                    | CN            |

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## Technical data

### Notes

|                     |   |
|---------------------|---|
| Notes on operation  | Crimping recommendation: Crimp the conductor with the crimp contact in accordance with IEC 60352                      |
| Note on application | When using the CRIMPFOX-P SR 6 manual crimping tool, item no. 1212755, please note the use of the PV-C3F/M-C locator. |

### Safety note

|  |   |
|--|---|
| Safety note  | <ul style="list-style-type: none"><li>• <b>WARNING:</b> Commission properly functioning products only. The products must be regularly inspected for damage. Decommission defective products immediately. Replace damaged products. Repairs are not possible.</li></ul>  |
|  | <ul style="list-style-type: none"><li>• <b>WARNING:</b> Only electrically qualified personnel may install and operate the product. They must observe the following safety notes. The qualified personnel must be familiar with the basics of electrical engineering. They must be able to recognize and prevent danger. The relevant symbol on the packaging indicates that only personnel familiar with electrical engineering are allowed to install and operate the product.</li></ul> |
|  | <p><b>WARNING:</b> The connectors may not be plugged in or disconnected under load. Ignoring the warning or improper use may damage persons and/or property.</p>  |
|  | <ul style="list-style-type: none"><li>• The products are suitable for applications in plant, controller, and electrical device engineering.</li></ul>   |
|  | <ul style="list-style-type: none"><li>• Assembled products may not be manipulated or improperly opened.</li></ul>   |
|  | <ul style="list-style-type: none"><li>• Only use mating connectors that are specified in the technical data of the standards listed (e.g. the ones listed in the product accessories online at <a href="https://www.phoenixcontact.com/products">phoenixcontact.com/products</a>).</li></ul>  |
|  | <ul style="list-style-type: none"><li>• When using the product in direct connection with third-party manufacturers, the user is responsible.</li></ul>  |
|  | <ul style="list-style-type: none"><li>• For operating voltages &gt; 50 V AC, conductive connector housings must be grounded</li></ul>   |
|  | <ul style="list-style-type: none"><li>• Ensure that the protective or functional ground has been properly connected.</li></ul>  |
|  | <ul style="list-style-type: none"><li>• Observe the corresponding technical data. You will find information:<ul style="list-style-type: none"><li>o On the product</li><li>o On the packing label</li><li>o In the supplied documentation</li><li>o Online at <a href="https://www.phoenixcontact.com/products">phoenixcontact.com/products</a> under the product</li></ul></li></ul>   |
|  | <ul style="list-style-type: none"><li>• The installation notes/Design In documents online on the download page at <a href="https://www.phoenixcontact.com/products">phoenixcontact.com/products</a> must be observed for this product.</li></ul>  |
|  | <ul style="list-style-type: none"><li>• Use a protective cap to protect connectors that are not in use. The suitable accessories are available online in the accessory section of the product at <a href="https://www.phoenixcontact.com/products">phoenixcontact.com/products</a></li></ul>  |
|  | <ul style="list-style-type: none"><li>• The connector warms up in normal operation. Depending on the ambient conditions, the surface of the connector can continue to warm up. In this case, the user is responsible for posting warnings (e.g. DIN EN ISO 13732-1:2008-12).</li></ul>  |
| <ul style="list-style-type: none"><li>• Operate the connector only when it is fully plugged in and</li></ul> |   |

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|  |   |
|--|---|
|  | interlocked.  |
|  | <ul style="list-style-type: none"><li>• Ensure that when laying the cable, the tensile load on the connectors does not exceed the upper limit specified in the standards.</li></ul> |
|  | <ul style="list-style-type: none"><li>• Observe the minimum bending radius of the cable. Lay the cable without twisting it.</li></ul>   |

## Product properties

|                       |               |
|-----------------------|---------------|
| Product type          | Crimp contact |
| Series                | SUNCLIX       |
| Contact material type | rolled        |

## Connection data

### Connection technology

|                         |                  |
|-------------------------|------------------|
| Contact connection type | Pin              |
| Connection method       | Crimp connection |

### Conductor connection

|                              |   |
|------------------------------|---|
| Stripping length             | 9 mm -1 mm                              |
| Connection cross section     | 6 mm <sup>2</sup> ... 6 mm <sup>2</sup> |
| Connection cross section AWG | 10 ... 10                               |

## Material specifications

|                          |                |
|--------------------------|----------------|
| Color                    | silver-colored |
| Material Contact         | Cu             |
| Material Contact surface | Ag             |

## Dimensions

|            |         |
|------------|---------|
| Width [w]  | 5.5 mm  |
| Height [h] | 7.8 mm  |
| Length [l] | 27.6 mm |

## Electrical properties

|                                      |                           |
|--------------------------------------|---------------------------|
| Rated current (6,0 mm <sup>2</sup> ) | 40 A                      |
| Resistance (Übergangswiderstand)     | < 0.3 mΩ (Crimp to crimp) |

## Mechanical properties

### Mechanical data

|                             |              |
|-----------------------------|--------------|
| Insertion/withdrawal cycles | 100          |
| Insertion force             | < 45 N ±10 N |

## Environmental and real-life conditions

### Ambient conditions

|                                 |                  |
|---------------------------------|------------------|
| Ambient temperature (operation) | -40 °C ... 85 °C |
| Ambient temperature (assembly)  | -5 °C ... 50 °C  |

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## Classifications

### ECLASS

|             |          |
|-------------|----------|
| ECLASS-13.0 | 27440204 |
| ECLASS-15.0 | 27440204 |

### ETIM

|           |          |
|-----------|----------|
| ETIM 10.0 | EC000796 |
|-----------|----------|

### UNSPSC

|             |          |
|-------------|----------|
| UNSPSC 21.0 | 39121400 |
|-------------|----------|

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## Environmental product compliance

### EU RoHS

|   |                    |
|---|--------------------|
| Fulfills EU RoHS substance requirements | Yes, No exemptions |
|---|--------------------|

### China RoHS

|  |  |
|--|--|
| Environment friendly use period (EFUP) | EFUP-E                                   |
|  | No hazardous substances above the limits |

### EU REACH SVHC

|                                     |                            |
|-------------------------------------|----------------------------|
| REACH candidate substance (CAS No.) | No substance above 0.1 wt% |
|-------------------------------------|----------------------------|

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