PV-FT-CCF-2,5-4-R1000 - Crimp contact

1704930


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Crimp contact, Range of articles: Sunclix, min. conductor cross section: 2.5 mm², max. conductor cross section: 4 mm², rated current: 27 A, Connection method: Crimp, Contact connection type: Socket. Crimping recommendation: Crimp the conductor with the crimp contact in accordance with IEC 60352

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

<table>
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<tr>
<th>Item number</th>
<th>1704930</th>
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<tbody>
<tr>
<td>Packing unit</td>
<td>1 pc</td>
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<tr>
<td>Minimum order quantity</td>
<td>1,000 pc</td>
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<tr>
<td>Sales key</td>
<td>AB02</td>
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<td>Product key</td>
<td>ABLBFA</td>
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<td>Catalog page</td>
<td>Page 421 (C-2-2013)</td>
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<tr>
<td>GTIN</td>
<td>4046356746205</td>
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<tr>
<td>Weight per piece (including packing)</td>
<td>5.053 g</td>
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<td>Weight per piece (excluding packing)</td>
<td>5 g</td>
</tr>
<tr>
<td>Customs tariff number</td>
<td>85359000</td>
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<td>Country of origin</td>
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### Technical data

#### Notes

<table>
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<tr>
<th>General</th>
<th>Crimping recommendation: Crimp the conductor with the crimp contact in accordance with IEC 60352</th>
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<tbody>
<tr>
<td>General</td>
<td>When using the CRIMPFOX-P SR 6 manual crimping tool, item no. 1212755, please note the use of the standard locator (no marking).</td>
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</table>

#### Safety note

- **WARNING:** Commission properly functioning products only. The products must be regularly inspected for damage. Decommission defective products immediately. Replace damaged products. Repairs are not possible.

- **WARNING:** 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.

- **WARNING:** The connectors may not be plugged in or disconnected under load. Ignoring the warning or improper use may damage persons and/or property.

- **The products are suitable for applications in plant, controller, and electrical device engineering.**

- **Assembled products may not be manipulated or improperly opened.**

- **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 phoenixcontact.com/products).**

- **When using the product in direct connection with third-party manufacturers, the user is responsible.**

- **For operating voltages > 50 V AC, conductive connector housings must be grounded**

- **Ensure that the protective or functional ground has been properly connected.**

- **Observe the corresponding technical data. You will find information:**
  - On the product
  - On the packing label
  - In the supplied documentation
  - Online at phoenixcontact.com/products under the product

- **The installation notes/Design In documents online on the download page at phoenixcontact.com/products must be observed for this product.**

- **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 phoenixcontact.com/products**

- **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).**
Operate the connector only when it is fully plugged in and interlocked.

Ensure that when laying the cable, the tensile load on the connectors does not exceed the upper limit specified in the standards.

Observe the minimum bending radius of the cable. Lay the cable without twisting it.

Mounting

- Connection method: Crimp

Product properties

- Product type: Crimp contact
- Product family: Sunclix

Insulation characteristics

- Degree of pollution: 2

Connection data

- Conductor connection
  - Cross section range, metric: 2.5 mm² ... 4 mm²
  - Connection method: Crimp
  - Contact connection type: Socket
  - Stripping length of the individual wire: 8 mm -1 mm
  - Conductor cross section flexible: 2.5 mm² ... 4 mm²

Material specifications

- Flammability rating according to UL 94: V0
- Insulating material group: I / CTI 600
- Contact surface: Silver Ag
- Contact material: Cu
- Contact surface material: Ag

Dimensions

- Dimensional drawing
- Width: 5.4 mm
- Height: 5.4 mm
- Length: 33.1 mm

Electrical properties

- Maximum load current: 35 A (for 4 mm²)
- Rated voltage (II/2): 1000 V
- Rated voltage (III/2): 1500 V
<table>
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<tr>
<th>Specification</th>
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<tr>
<td>Rated surge voltage (III/2)</td>
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<tr>
<td>Rated surge voltage (III/3)</td>
<td>16 kV</td>
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<tr>
<td>Rated current (2.5 mm²)</td>
<td>27 A</td>
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<tr>
<td>Rated current (4.0 mm²)</td>
<td>35 A</td>
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<tr>
<td>Contact resistance</td>
<td>0.45 mΩ</td>
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**Mechanical properties**

- **Mechanical data**
  - Insertion force: 45 N ±10 N

**Environmental and real-life conditions**

- **Ambient conditions**
  - Degree of protection (when plugged in): IP66 / IP68 (2 m / 24 h)
  - Degree of protection (not plugged in): IP20
  - Ambient temperature (operation): -40 °C ... 85 °C
  - Ambient temperature (assembly): -25 °C ... 50 °C
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Drawings

Dimensional drawing

Dimensional drawing

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Classifications

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Environmental product compliance

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<th>China RoHS</th>
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<td>No hazardous substances above threshold values</td>
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</table>
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Accessories

PV-FT-C NUT BK - Screw connection

1775880

Screw connection, Range of articles: Sunclix

PV-C PROTECTION CAP - Protective cap

1785430

Protective cap, Range of articles: Sunclix, color: black, self-sealing, without interlock, set consisting of: 1 protective cap for connector side and 1 protective cap for coupling side
PV-FT-CCF-2,5-4-R1000 - Crimp contact

PV-FT-C2F-HSG - Photovoltaic connector

CRIMPFOX-P SR 6 - Crimping pliers
UNIFOX SR 6 - Mounting pliers

1200137

https://www.phoenixcontact.com/us/products/1200137

Mounting pliers for snapping the SUNCLIX crimp contacts into the plastic housing, curved 35°, suitable for a conductor diameter of 4.2 mm ... 6.0 mm.