

# PV-C4M-S 2,5-6 (-) - Connector



1020775

<https://www.phoenixcontact.com/pc/products/1020775>

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Connector, Range of articles: SUNCLIX, color: black, number of positions: 1, min. conductor cross-section: 2.5 mm<sup>2</sup>, max. conductor cross-section: 6 mm<sup>2</sup>, rated voltage: 1500 V DC, rated current: 35 A, Connection method: Spring-cage, min. cable diameter: 5 mm, max. cable diameter: 8 mm

## Your advantages

- Convenient, secure spring connection technology
- High yield, thanks to silver-plated contacts
- Convenient release without a special tool
- One-piece DC connector

## Commercial data

|                                      |               |
|--------------------------------------|---------------|
| Item number                          | 1020775       |
| Packing unit                         | 50 pc         |
| Minimum order quantity               | 50 pc         |
| Product key                          | ABLBBA        |
| GTIN                                 | 4055626511283 |
| Weight per piece (including packing) | 19.73 g       |
| Weight per piece (excluding packing) | 19.211 g      |
| Customs tariff number                | 85359000      |
| Country of origin                    | IN            |

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## Technical data

### Notes

#### Safety note

##### 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](https://www.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:
  - o On the product
  - o On the packing label
  - o In the supplied documentation
  - o Online at [phoenixcontact.com/products](https://www.phoenixcontact.com/products) under the product
- The installation notes/Design In documents online on the download page at [phoenixcontact.com/products](https://www.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](https://www.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.

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

## Product properties

|                     |         |
|---------------------|---------|
| Product family      | SUNCLIX |
| Number of positions | 1       |

## Insulation characteristics

|                     |    |
|---------------------|----|
| Protection class    | II |
| Degree of pollution | 2  |

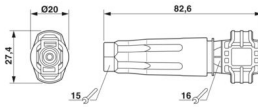
## Electrical properties

|                                      |                                                                   |
|--------------------------------------|-------------------------------------------------------------------|
| Rated voltage (II/2)                 | 1000 V                                                            |
| Rated voltage (III/2)                | 1500 V                                                            |
| Nominal voltage ATD                  | 1500 V DC (III/2.00) in accordance with IEC 62852:2014/AMD1:2 020 |
|                                      | 1500 V DC in accordance with UL 6703                              |
| Rated surge voltage                  | 16 kV                                                             |
| Rated surge voltage (II/2)           | 12 kV                                                             |
| Rated surge voltage (III/2)          | 12 kV                                                             |
| Rated surge voltage (III/3)          | 16 kV                                                             |
| Rated current (6.0 mm <sup>2</sup> ) | 35 A (in accordance with IEC 62852:2014-11)                       |
| Rated current (4.0 mm <sup>2</sup> ) | 30 A (in accordance with IEC 62852:2014-11)                       |
| Rated current (2.5 mm <sup>2</sup> ) | 20 A (in accordance with IEC 62852:2014-11)                       |
| Rated current                        | 30 A (in accordance with UL 6703)                                 |
|                                      | 35 A (in accordance with UL 6703)                                 |
|                                      | 50 A (in accordance with UL 6703)                                 |
| Contact resistance                   | 0.45 mΩ                                                           |
| Contact resistance                   | ≤ 0.45 mΩ (when plugged in (without cable))                       |

## Connection data

|                   |             |
|-------------------|-------------|
| Connection method | Spring-cage |
| Stripping length  | 15 mm       |

## Dimensions

|                     |                                                                                      |
|---------------------|--------------------------------------------------------------------------------------|
| Dimensional drawing |  |
| Width               | 20 mm                                                                                |
| Height              | 27.4 mm                                                                              |
| Length              | 82.6 mm                                                                              |

## Material specifications

|       |       |
|-------|-------|
| Color | black |
|-------|-------|

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|                                        |                      |
|----------------------------------------|----------------------|
| Color of the housing part              | black                |
| Material Contact carrier               | PA 6.6 (V0)          |
| Material Housing                       | PPE                  |
| Material Contact                       | Cu                   |
| Flammability rating according to UL 94 | V0                   |
| Insulating material group              | II                   |
| Insulating material                    | mPPE                 |
| Cable seal material                    | EPDM                 |
| Contact surface material               | Ag                   |
| O-ring material                        | Elastosil LR 3065/50 |

## Cable/line

|                                         |                                                     |
|-----------------------------------------|-----------------------------------------------------|
| External cable diameter                 | 5 mm ... 8 mm                                       |
| External cable diameter                 | 5 mm ... 8 mm                                       |
| Single wire, cross section              | 2.5 mm <sup>2</sup> 6 mm <sup>2</sup> 14 AWG 10 AWG |
| Stripping length of the individual wire | 15 mm                                               |
| Cable pull-out force                    | > 80 N                                              |

## Mechanical properties

### Mechanical data

|                             |                           |
|-----------------------------|---------------------------|
| Insertion/withdrawal cycles | 100                       |
| Insertion force             | 45 N ±10 N                |
| Withdrawal force            | 250 N ±50 N (when locked) |

## 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                                               |
| Degree of protection                                              | IP66/IP68 (2 m / 24 h)                             |
| Ambient temperature (operation) (male connector/female connector) | -40 °C ... 85 °C (dependent on the derating curve) |
| Ambient temperature (assembly)                                    | -5 °C ... 50 °C                                    |

## Standards and regulations

|                          |                          |
|--------------------------|--------------------------|
| Standards/specifications | IEC 62852:2014/AMD1:2020 |
|--------------------------|--------------------------|

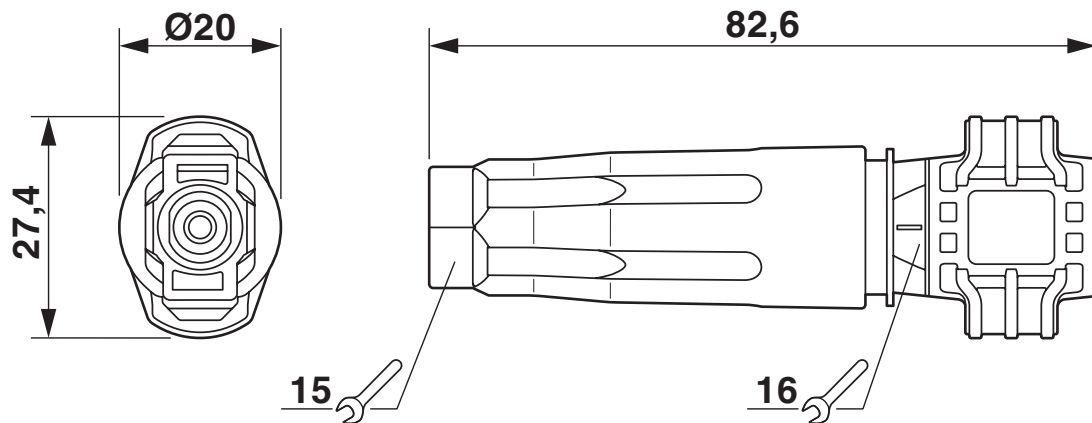
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## Drawings

Dimensional drawing



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## Approvals

To download certificates, visit the product detail page: <https://www.phoenixcontact.com/pc/products/1020775>

|                                                                                                                                         |                                |                                |                   |                               |
|-----------------------------------------------------------------------------------------------------------------------------------------|--------------------------------|--------------------------------|-------------------|-------------------------------|
|  <b>UL Recognized</b><br>Approval ID: E477377-20180202 |                                |                                |                   |                               |
|                                                                                                                                         | Nominal voltage U <sub>N</sub> | Nominal current I <sub>N</sub> | Cross section AWG | Cross section mm <sup>2</sup> |
| keine                                                                                                                                   |                                |                                |                   |                               |
|                                                                                                                                         | 1500 V                         | 50 A                           | - 10              | -                             |

|                                                                                                                                       |  |  |  |  |
|---------------------------------------------------------------------------------------------------------------------------------------|--|--|--|--|
|  <b>TÜV Rheinland</b><br>Approval ID: R60169305 0001 |  |  |  |  |
|---------------------------------------------------------------------------------------------------------------------------------------|--|--|--|--|

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## Classifications

### ECLASS

|             |          |
|-------------|----------|
| ECLASS-13.0 | 27440107 |
| ECLASS-15.0 | 27440107 |

### ETIM

|          |          |
|----------|----------|
| ETIM 9.0 | EC002635 |
|----------|----------|

### 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.)     | Triphenyl phosphate(CAS: 115-86-6)       |



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## Accessories

### PV-C PROTECTION CAP - Protective cap

1785430

<https://www.phoenixcontact.com/pc/products/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



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### SZF 1-0,6X3,5 - Screwdriver

1204517

<https://www.phoenixcontact.com/pc/products/1204517>

Actuation tool, for ST terminal blocks, also suitable for use as a bladed screwdriver, size: 0.6 x 3.5 x 100 mm, 2-component grip, with non-slip grip



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## QUICK WIREFOX 6 SC - Stripping pliers

1207637

<https://www.phoenixcontact.com/pc/products/1207637>



Stripping pliers for short-circuit proof conductors, stripping range: 1.5 up to 6 mm<sup>2</sup>, wire cutting up to 6 mm<sup>2</sup> cable stopper up to 18 mm<sup>2</sup>

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## WIREFOX-D SR 6-1 - Stripping tool

1212511

<https://www.phoenixcontact.com/pc/products/1212511>



Stripping tool, for standard 2.5, 4, and 6 mm<sup>2</sup> solar cables, with 15 mm length stop, for SUNCLIX field connectors

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## PV-C-PLUG-HV - Filler plug

1623478

<https://www.phoenixcontact.com/pc/products/1623478>

Filler plug, Range of articles: SUNCLIX



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