# PV-CM/CF-PRC-5FC/FS6-SET K02 - Connector

1622077

https://www.phoenixcontact.com/us/products/1622077

Please be informed that the data shown in this PDF document is generated from our online catalog. Please find the complete data in the user documentation. Our general terms of use for downloads are valid.



Inverter connection kit consisting of 1x AC field connector of the PRC series and 4x “SUNCLIX” DC field connectors (2 pairs)

## Product description

The set consists of a 5-pos. PRC field connector for conductor cross-sections from 1.5 $mm^2$ to 6.0 $mm^2$ and conductor outside diameters from 8 mm to 21 mm, plus four 1-pos SUNCLIX field connectors (2x coupling, 2x connector) for conductor cross-sections of 2.5 $mm^2$ to 6.0 $mm^2$.

## Commercial data

| | |
|---|---|
| Item number | 1622077 |
| Packing unit | 1 pc |
| Minimum order quantity | 25 pc |
| Product key | ABLCBA |
| GTIN | 4055626041124 |
| Weight per piece (including packing) | 166.06 g |
| Weight per piece (excluding packing) | 153.932 g |
| Country of origin | PL |

# Technical data

## Notes

| | |
|---|---|
| Order information: | The technical data for individual products is to be found in the corresponding data sheets. |

Safety note

| | |
|---|---|
| Safety note | • 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. |
| | • Assembled products may not be manipulated or improperly opened. |
| | • When using the product in direct connection with third-party manufacturers, the user is responsible. |
| | • Ensure that the protective or functional ground has been properly connected. |
| | • Observe the corresponding technical data. You will find information:<br>o On the product<br>o On the packing label<br>o In the supplied documentation<br>o 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. |
| | • Operate the connector only when it is fully plugged in. |
| | • Ensure that when laying the cable, the tensile load on the connectors does not exceed the upper limit specified in the standards. |
| | • 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). |

## Product properties

| | |
|---|---|
| Product type | Installation connector |
| Product family | PRC 35 |
| Set comprises | 1410656 PRC 5-FC-FS6 8-21 |
| | 1774687 PV-CM-S 2,5-6 (-) |
| | 1774674 PV-CF-S 2,5-6 (+) |

Insulation characteristics

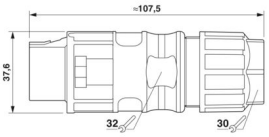
| | |
|---|---|
| Protection class | II |
| Degree of pollution | 2 |

## Connection data

Conductor connection

| | |
|---|---|
| Conductor cross-section | 1.5 mm² ... 6 mm² |

## Dimensions

| | |
|---|---|
| Dimensional drawing |  |
| Width | 37.6 mm |
| Height | 37.6 mm |
| Length | 105 mm |

External dimensions

| | |
|---|---|
| Outside diameter | 5-pos. PRC connector |

## Material specifications

| | |
|---|---|
| Color (Housing) | black (RAL 9005) |
| Color of the housing part | black |
| Material Seal | EPDM |
| Material Contact carrier | PPE |
| Material Housing | PPE |
| Material Contact | Cu |
| Flammability rating according to UL 94 | V0 |
| Insulating material group | I / CTI 600 |
| Cable seal material | EPDM |
| O-ring material | EPDM |
| Material for screw connection | PPE |

## Cable/line

| | |
|---|---|
| External cable diameter | 8 mm ... 21 mm |

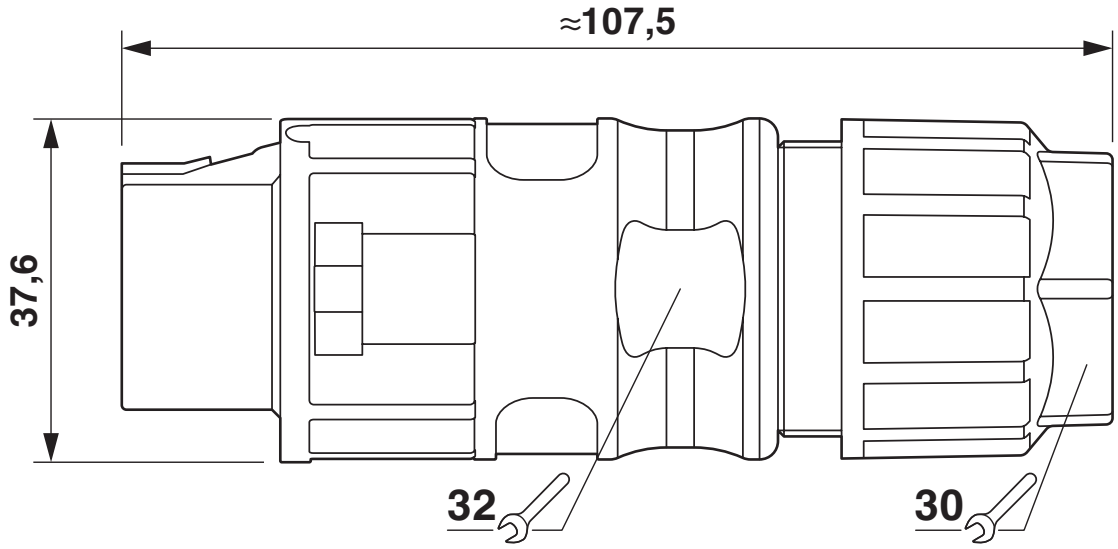
## Environmental and real-life conditions

Ambient conditions

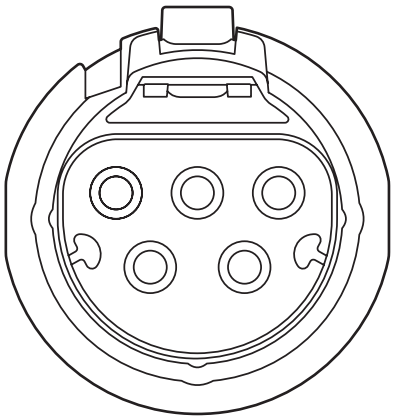
| | |
|---|---|
| Ambient temperature (operation) | -40 °C ... 100 °C (for 5-pos. PRC connector depending on the derating curve) |
| | -40 °C ... 85 °C (for SUNCLIX connector) |
| Ambient temperature (assembly) | 5 °C ... 85 °C |

## Drawings

Dimensional drawing




Schematic diagram



Connector pin assignment

## Classifications

### ECLASS

| | |
|---|---|
| ECLASS-13.0 | 27440605 |
| ECLASS-15.0 | 27440605 |

### ETIM

| | |
|---|---|
| ETIM 10.0 | EC002560 |

### UNSPSC

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

## Environmental product compliance

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% |

Phoenix Contact 2026 © - all rights reserved
https://www.phoenixcontact.com

Phoenix Contact USA
586 Fulling Mill Road
Middletown, PA 17057, United States
(+717) 944-1300
info@phoenixcon.com