# PV-C3M-S 2,5-6 (-) - Photovoltaic connector

1386384

https://www.phoenixcontact.com/us/products/1386384

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Photovoltaic connector, Range of articles: SUNCLIX, color: black, number of positions: 1, min. conductor cross-section: 2.5 $mm^2$, max. conductor cross-section: 6 $mm^2$, rated voltage: 1100 V DC, rated current: 35 A, Connection method: Spring-cage, min. cable diameter: 5.5 mm, max. cable diameter: 8 mm, Follow-up item to 1774687

## 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 | 1386384 |
| Packing unit | 50 pc |
| Minimum order quantity | 50 pc |
| Sales key | AB02 |
| Product key | ABLBBA |
| GTIN | 4063151762377 |
| Weight per piece (including packing) | 13.78 g |
| Weight per piece (excluding packing) | 13.677 g |
| Customs tariff number | 85359000 |
| Country of origin | DE |

## Technical data

### Notes

| | |
|---|---|
| Order information: | Follow-up item to 1774687 |

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. |

### Product properties

| | |
|---|---|
| Product type | Photovoltaic connectors |
| Product family | SUNCLIX |
| Number of positions | 1 |

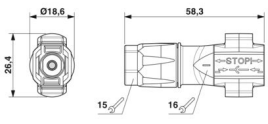
Insulation characteristics

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

### Electrical properties

| | |
|---|---|
| Rated voltage (III/2) | 1100 V |
| Rated voltage | 1100 V DC (III/2) in accordance with IEC 62852:2014/AMD1:2020 |
| Rated surge voltage | 12.8 kV |
| Rated surge voltage (II/2) | 12 kV |
| Rated surge voltage (III/2) | 12 kV |
| Rated surge voltage (III/3) | 12.8 kV |
| Rated current (6.0 mm²) | 35 A (in accordance with IEC 62852:2014/AMD1:2020) |
| Rated current (4.0 mm²) | 30 A (in accordance with IEC 62852:2014/AMD1:2020) |
| Rated current (2.5 mm²) | 20 A (in accordance with IEC 62852:2014/AMD1:2020) |
| Contact resistance | ≤ 0.45 mΩ (when plugged in (without cable)) |

### Dimensions

| | |
|---|---|
| Dimensional drawing |   |
| Width | 18.6 mm |
| Height | 26.4 mm |
| Length | 58.3 mm |

## Material specifications

| | |
|---|---|
| Color | black |
| Color of the housing part | black |
| Material Housing | PPE |
| Material Seal | EPDM |
| Material Cable gland | PPE |
| Material Contact | Cu alloy |
| Material Contact carrier | PA 6.6 (V0) |
| Flammability rating according to UL 94 | V0 |
| Insulating material group | III |
| Insulating material | mPPE |
| Contact surface material | Ag |
| O-ring material | EPDM |

## Cable/line

| | |
|---|---|
| External cable diameter | 5.5 mm ... 8 mm |
| External cable diameter | 5.5 mm ... 8 mm |
| Single wire, cross section | 2.5 mm² 6 mm² |
| Cable pull-out force | > 250 N |

## Mechanical properties

Mechanical data

| | |
|---|---|
| Insertion/withdrawal cycles | 100 |
| Insertion force | 45 N ±10 N |
| Withdrawal force | < 200 N (when locked) |

## Environmental and real-life conditions

Ambient conditions

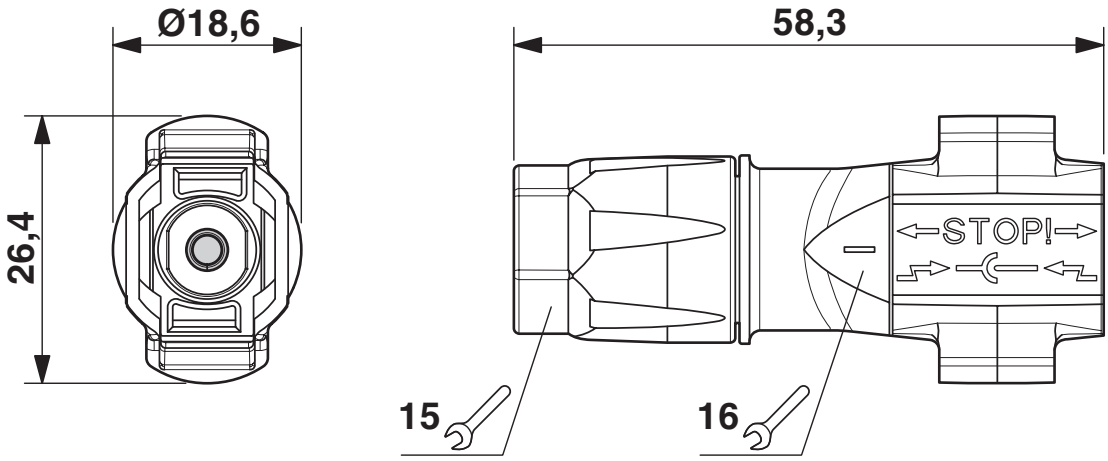
| | |
|---|---|
| Degree of protection (when plugged in) | IP66/IP68 (2 m / 24 h) |
| Degree of protection (not plugged in) | IP20 |
| Degree of protection | IP66/IP68 (2 m / 24 h) |
| Ambient temperature (operation) (male connector/female connector) | -40 °C ... 85 °C (dependent on the derating curve) |
| Ambient temperature (assembly) | -5 °C ... 50 °C |

## Standards and regulations

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

## Drawings

Dimensional drawing



## Approvals

To download certificates, visit the product detail page: https://www.phoenixcontact.com/us/products/1386384

**TÜV Rheinland**
Approval ID: R 60165497-0001

## Classifications

### ECLASS

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

### ETIM

| | |
|---|---|
| ETIM 10.0 | EC002635 |

### UNSPSC

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

## 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) |
| SCIP | fe9a5fe0-49a7-4e4f-b383-dbf38fdc624d |

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