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Photovoltaic connector, Photovoltaic connector, housing material: PPE, color: black, number of positions: 1, min. conductor cross section: 6 mm², Connection method: Crimp, Type of contact: Pin, cable length: 500



### **Key Commercial Data**

| Packing unit           | 50 pc           |
|------------------------|-----------------|
| Minimum order quantity | 50 pc           |
| GTIN                   | 4 055626 139654 |
| GTIN                   | 4055626139654   |

### Technical data

#### **Dimensions**

| Fixed cable length      | 500 mm          |
|-------------------------|-----------------|
| External cable diameter | 5.4 mm ±0.15 mm |

### 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             |

### General

| Design                                      | Pin                       |
|---|---------------------------|
| Tightening torque nut                       | 1.8 Nm ±0.1 Nm            |
| Insertion force                             | 45 N ±10 N                |
| Disconnect force                            | 250 N ±50 N (when locked) |
| Pull-out force of cable >= disconnect force | > 80 N                    |
| Insertion/withdrawal cycles                 | 100                       |
| Cable cross section                         | 6 mm²                     |
| Degree of pollution                         | 3                         |



### Technical data

### General

| Degree of protection        | IP20                                       |
|-----------------------------|--|
| Number of positions         | 1  |
| Locking type                | Latching (can only be released using tool) |
| Current                     | 40 A                                       |
| Rated surge voltage (III/3) | 16 kV                                      |
| pluggable                   | Yes  |
| Rated voltage               | 1500 V                                     |
| Rated current (6.0 mm²)     | 40 A                                       |
| Nominal cross section       | 6 mm²                                      |
| Protection class            | П  |

#### Material

| Color                                  | black |
|--|-------|
| Insulating material                    | mPPE  |
| Contact material                       | Cu    |
| Contact surface material               | Ag    |
| Flammability rating according to UL 94 | V0    |

#### Connection data

| Connection method                           | Crimp             |
|---|-------------------|
| Connection capacity                         | 6 mm <sup>2</sup> |
| Contact resistance with connected conductor | 0.45 mΩ           |
| Cable type                                  | S03               |

### Standards and Regulations

| Flame resistance                       | no   |
|--|--|
| Resistance to oil                      | no   |
| Halogen-free                           | yes  |
| Flammability rating according to UL 94 | V0   |
| 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.  |



### Technical data

### Standards and Regulations

| 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<br>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.  |

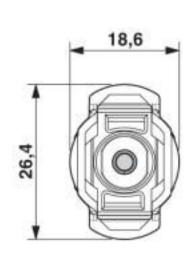
### **Environmental Product Compliance**

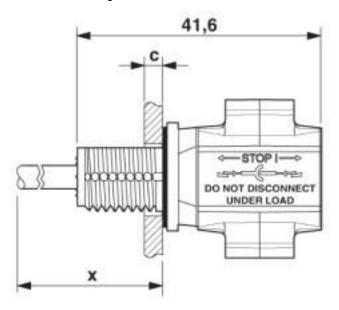
| China RoHS | Environmentally friendly use period: unlimited = EFUP-e |
|------------|---|
|            | No hazardous substances above threshold values          |

## Drawings



### Dimensional drawing

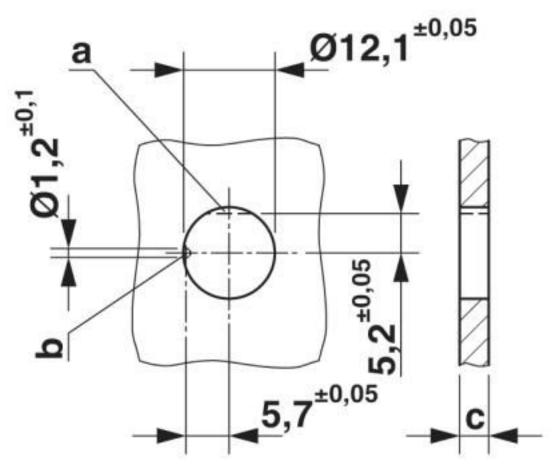




Dimension x = cable length c: panel thickness - plastic: 2 - 6 mm; metal: 2 - 5 mm



#### Dimensional drawing



a: anti-rotation protection

b: coding

c: panel thickness - plastic: 2 - 6 mm; metal: 2 - 5 mm

### Classifications

### eCl@ss

| eCl@ss 10.0.1 | 27440107 |
|---------------|----------|
| eCl@ss 4.0    | 27260700 |
| eCl@ss 4.1    | 27260700 |
| eCl@ss 5.0    | 27260700 |
| eCl@ss 5.1    | 27260700 |
| eCl@ss 6.0    | 27260700 |
| eCl@ss 7.0    | 27440102 |
| eCl@ss 8.0    | 27440102 |
| eCl@ss 9.0    | 27440107 |

### **ETIM**

| ETIM 5.0 | EC002635 |
|----------|----------|



### Classifications

### **ETIM**

| ETIM 6.0 | EC002061 |
|----------|----------|
| ETIM 7.0 | EC002635 |

#### **UNSPSC**

| UNSPSC 13.2 | 39121413 |
|-------------|----------|
| UNSPSC 18.0 | 39121413 |
| UNSPSC 19.0 | 39121413 |
| UNSPSC 20.0 | 39121413 |
| UNSPSC 21.0 | 39121413 |

### **Approvals**

#### Approvals

Approvals

TÜV Rheinland / EAC

Ex Approvals

#### Approval details

| TÜV Rheinland      | 170 mmm. | http://www.certipedia.com | R 60126961 |
|--------------------|----------|---------------------------|------------|
|                    |          |                           |            |
| Nominal voltage UN |          | 1500 V                    |            |

| EAC | EAC | B.01687 |
|-----|-----|---------|
|-----|-----|---------|

### Accessories

Accessories

Photovoltaic connector

Nut - PV-FT-C NUT BK - 1775880



Photovoltaic connector, Range of articles: SUNCLIX, Nut, number of positions: 0



### Accessories

Protective cap - PV-C PROTECTION CAP - 1785430



Photovoltaic connector, Range of articles: SUNCLIX, Protective cap, 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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PHOENIX CONTACT GmbH & Co. KG Flachsmarktstr. 8 32825 Blomberg Germany Tel. +49 5235 300 Fax +49 5235 3 41200 http://www.phoenixcontact.com

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