

# PV-CF-C-HSG - Photovoltaic connector



1622661

<https://www.phoenixcontact.com/us/products/1622661>

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Photovoltaic connector, Range of articles: SUNCLIX, housing material: PPE, 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, rated current: 20 A, Connection method: Crimp, min. cable diameter: 5.5 mm, max. cable diameter: 8 mm

## 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

Item number	1622661
Packing unit	1 pc
Note	Made to order (non-returnable)
Sales key	AB02
Product key	ABLBBB
GTIN	4055626056418
Weight per piece (including packing)	10.47 g
Weight per piece (excluding packing)	9.815 g
Customs tariff number	85359000
Country of origin	DE

## 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 type	Photovoltaic connectors
Product family	SUNCLIX
Number of positions	1

## Insulation characteristics

Protection class	II
Degree of pollution	2

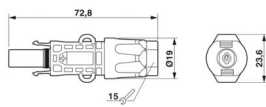
## Electrical properties

Rated voltage (II/2)	1000 V
Rated voltage (III/2)	1500 V
Rated voltage	1500 V
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 (2.5 mm <sup>2</sup> )	20 A
Rated current (4.0 mm <sup>2</sup> )	30 A
Rated current (6.0 mm <sup>2</sup> )	35 A
Contact resistance	≤ 0.45 mΩ
Contact resistance	< 0.3 mΩ (Crimp contact/crimp contact)

## Connection data

Connection method	Crimp
Stripping length	8 mm
Tightening torque	3 ... 3.2 Nm

## Dimensions

Dimensional drawing	
Width	23.6 mm
Height	23.6 mm
Length	72.8 mm

## Material specifications

Color	black
Color of the housing part	black
Flammability rating according to UL 94	V0
Insulating material group	II

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Insulating material	mPPE
Contact surface	Silver Ag
Housing material	PPE
Cable seal material	EPDM
Contact material	Cu
Contact surface material	Ag
Contact carrier material	PPE
O-ring material	Silopren LSR 2660
Material for screw connection	PPE

## Cable/line

Cable type	H1Z2Z2-K lines
External cable diameter	5.5 mm ... 8 mm
External cable diameter	5.5 mm ... 8 mm
Single wire, cross section	2.5 mm <sup>2</sup> 6 mm <sup>2</sup>
Cable pull-out force	> 80 N (IEC 62852:2014)

## Mechanical properties

Outside conductor diameter	5.50 mm 8.00 mm
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### Mechanical data

Outside conductor diameter	5.50 mm 8.00 mm
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)
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Ambient temperature (operation) (male connector/female connector)	-40 °C ... 85 °C
Ambient temperature (assembly)	-25 °C ... 50 °C

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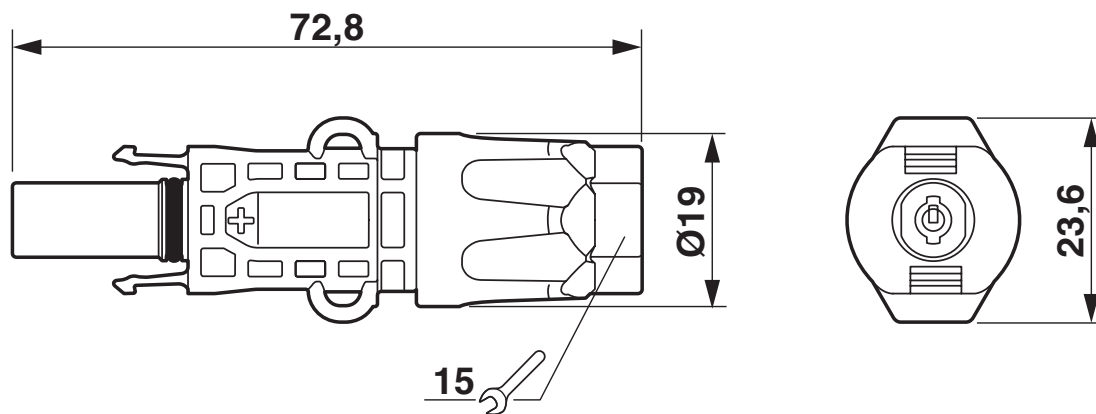


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## Drawings

Dimensional drawing



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## Classifications

### ECLASS

ECLASS-13.0	27440107
ECLASS-15.0	27440107

### UNSPSC

UNSPSC 21.0	39121400
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## 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.)	Triphenyl phosphate(CAS: 115-86-6)
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