

# PV-FT-C2M-HSG - Photovoltaic connector



1704925

<https://www.phoenixcontact.com/us/products/1704925>

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Photovoltaic connector, Range of articles: SUNCLIX, housing material: PPE, color: black, number of positions: 1, rated voltage: 1000 V DC, rated current: 40 A, Connection method: Crimp, Contact connection type: Pin

## Your advantages

- High yield, thanks to silver-plated contacts
- Patented UNLOCK system allows smaller center distances as well as convenient release
- Unique SUNCLIX pin connector pattern

## Commercial data

Item number	1704925
Packing unit	50 pc
Minimum order quantity	50 pc
Sales key	AB02
Product key	ABLBAB
Catalog page	Page 421 (C-2-2013)
GTIN	4046356746243
Weight per piece (including packing)	6.774 g
Weight per piece (excluding packing)	6.4 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	Panel feed-through
Product family	SUNCLIX
Number of positions	1

## Insulation characteristics

Protection class	II
Degree of pollution	2

## Connection data

### Conductor connection

Tightening torque	1.8 Nm $\pm$ 0.1 Nm
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## Dimensions

Dimensional drawing	
Width	18.6 mm
Height	26.4 mm
Length	41.6 mm

## Electrical properties

Rated voltage (III/2)	1000 V
Nominal voltage ATD	1000 V DC (II/2.00) in accordance with IEC 62852:2014/AMD1:2 020
Rated surge voltage	16 kV
Rated surge voltage (III/2)	12 kV
Rated current	40 A (in accordance with IEC 62852:2014/AMD1:2020)
Rated current (4.0 mm <sup>2</sup> )	35 A (in accordance with IEC 62852:2014/AMD1:2020)
Rated current	27 A (in accordance with IEC 62852:2014/AMD1:2020)
Contact resistance	< 0.45 m $\Omega$ (depending on the mating connector used)

## Mechanical properties

### Mechanical data

Insertion/withdrawal cycles	100
Insertion force	45 N $\pm$ 10 N (with installed contacts)
Withdrawal force	250 N $\pm$ 50 N

## Material specifications

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Color	black
Color of the housing part	black
Material	PPE
Flammability rating according to UL 94	V0
Insulating material group	III
Seal material	EPDM
Insulating material	mPPE
Housing material	PPE
Contact material	Cu
Contact surface material	Ag
Contact carrier material	PPE

## Cable/line

Cable pull-out force	> 80 N
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## Environmental and real-life conditions

### Ambient conditions

Degree of protection	IP66 / IP68 (2m / 24h) (plugged in)
	IP20 (Not plugged in)
	IP66 / IP68 (2 m / 24 h)
Ambient temperature (operation)	-40 °C ... 85 °C
Ambient temperature (assembly)	-25 °C ... 50 °C

## Standards and regulations

Standards/specifications	IEC 62852:2014/AMD1:2020
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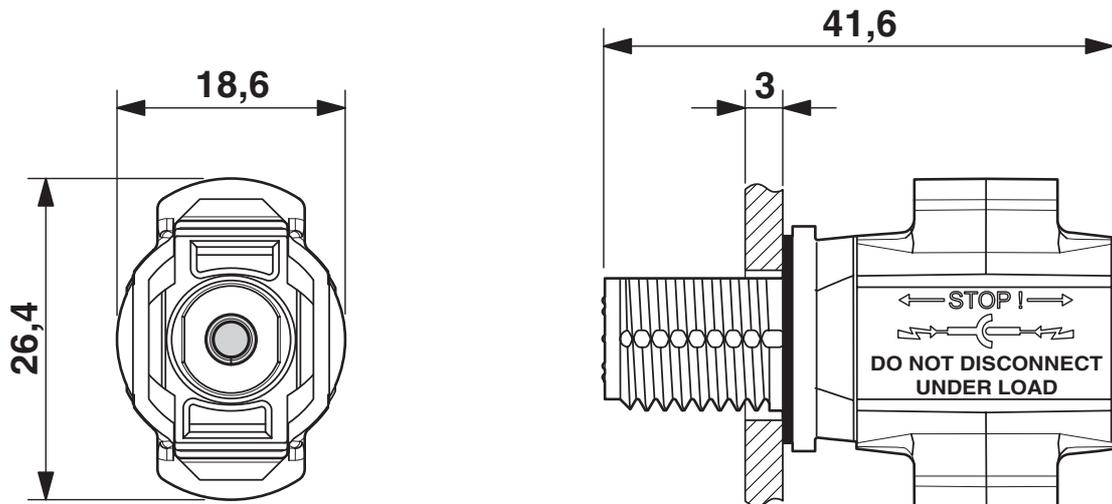


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## Drawings

### Dimensional drawing



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## Approvals

🔗 To download certificates, visit the product detail page: <https://www.phoenixcontact.com/us/products/1704925>



**TÜV Rheinland**

Approval ID: R 60165003-0001

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## Classifications

### ECLASS

ECLASS-11.0	27440107
ECLASS-12.0	27440107
ECLASS-13.0	27440107

### ETIM

ETIM 9.0	EC002635
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### UNSPSC

UNSPSC 21.0	39121400
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## Environmental product compliance

### EU RoHS

Fulfills EU RoHS substance requirements	Yes, No exemptions
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### 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%
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## Accessories

### PV-FT-C NUT BK - Screw connection

1775880

<https://www.phoenixcontact.com/us/products/1775880>



Screw connection, Range of articles: SUNCLIX, Packing unit: 100 pcs. (polybag)

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### PV-C PROTECTION CAP - Protective cap

1785430

<https://www.phoenixcontact.com/us/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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## PV-FT-CCM-6-R1000 - Crimp contact

1704928

<https://www.phoenixcontact.com/us/products/1704928>



Crimp contact, Range of articles: SUNCLIX, number of positions: 1, min. conductor cross section: 6 mm<sup>2</sup>, Connection method: Crimp, Contact connection type: Pin, Crimping recommendation: Crimp the conductor with the crimp contact in accordance with IEC 60352

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## PV-FT-CCM-2,5-4-R1000 - Crimp contact

1704927

<https://www.phoenixcontact.com/us/products/1704927>



Crimp contact, Range of articles: SUNCLIX, min. conductor cross section: 2.5 mm<sup>2</sup>, max. conductor cross section: 4 mm<sup>2</sup>, rated current: 27 A, Connection method: Crimp, Contact connection type: Pin, Crimping recommendation: Crimp the conductor with the crimp contact in accordance with IEC 60352

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## CRIMPFOX-P SR 6 - Crimping pliers

1212755

<https://www.phoenixcontact.com/us/products/1212755>



Crimping pliers, for SUNCLIX solar crimp connectors 2.5 ... 6 mm<sup>2</sup>, unlockable pressure lock, precise parallel crimping, lateral entry, B crimp, incl. positioning tool

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## UNIFOX SR 6 - Mounting pliers

1200137

<https://www.phoenixcontact.com/us/products/1200137>



Mounting pliers for snapping the SUNCLIX crimp contacts into the plastic housing, curved 35°, suitable for a conductor diameter of 4.2 mm ... 6.0 mm.

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