

# PV-FT-CF-C-6-130-BU - Device connector front mounting

1805177

<https://www.phoenixcontact.com/us/products/1805177>

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Panel feed-through, Range of articles: Sunclix, Device connector front mounting, housing material: PPE, color: black, number of positions: 1, min. conductor cross section: 6 mm<sup>2</sup>, Connection method: Crimp, Contact connection type: Socket, cable length: 130

## Commercial data

|                                      |                     |
|--------------------------------------|---------------------|
| Item number                          | 1805177             |
| Packing unit                         | 1 pc                |
| Minimum order quantity               | 50 pc               |
| Sales key                            | AB02                |
| Product key                          | ABLBA               |
| Catalog page                         | Page 420 (C-2-2013) |
| GTIN                                 | 4046356671781       |
| Weight per piece (including packing) | 14.815 g            |
| Weight per piece (excluding packing) | 14.5 g              |
| Customs tariff number                | 85444290            |
| Country of origin                    | DE                  |

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## 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.

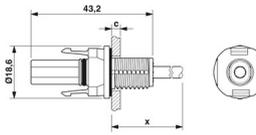
## Product properties

|                     |                    |
|---------------------|--------------------|
| Product type        | Panel feed-through |
| Product family      | Sunclix            |
| Number of positions | 1                  |

## Insulation characteristics

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

## Dimensions

|                     |   |
|---------------------|---|
| Dimensional drawing |  |
| Width               | 18.6 mm   |
| Height              | 18.6 mm   |
| Length              | 43.2 mm   |

## Electrical properties

|                                      |   |
|--------------------------------------|---|
| Rated voltage (III/2)                | 1000 V                                      |
| Rated surge voltage (III/2)          | 12 kV                                       |
| Rated current (6.0 mm <sup>2</sup> ) | 40 A  |
| Contact resistance                   | 0.45 mΩ                                     |
| Contact resistance                   | ≤ 0.45 mΩ (when plugged in (without cable)) |

## Mechanical properties

### Mechanical data

|                             |                           |
|-----------------------------|---------------------------|
| Insertion/withdrawal cycles | 100                       |
| Insertion force             | 45 N ±10 N                |
| Withdrawal force            | 250 N ±50 N (when locked) |

## Material specifications

|  |                      |
|--|----------------------|
| Color                                  | black                |
| Color of the housing part              | black                |
| Flammability rating according to UL 94 | V0                   |
| Insulating material group              | III                  |
| Seal material                          | EPDM                 |
| Insulating material                    | mPPE                 |
| Contact surface                        | Silver Ag            |
| Cable seal material                    | Elastosil LR 3065/50 |
| Contact material                       | Cu                   |

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|                          |                   |
|--------------------------|-------------------|
| Contact surface material | Ag                |
| Contact carrier material | PPE               |
| O-ring material          | Silopren LSR 2660 |
| Housing material         | PPE               |
| Outer sheath, material   | PE-X              |

## Cable/line

|   |  |
|---|--|
| Cable length  | 130 mm   |
| Cable type  | S03  |
| Structure of individual litz in acc. with VDE 0295 / smallest wire diameter | 84x0.3   |
| Cable type  | Hose line  |
| Cable structure   | 84 x 0.30 mm Ø litz wires, tin-plated, 1x bunched            |
| External cable diameter   | 5.4 mm ±0.15 mm  |
| Outer sheath, material  | PE-X   |
| External sheath, color  | blue RAL 5015  |
| Single wire, material   | Cu   |
| Single wire, cross section  | 6 mm <sup>2</sup>  |
| Nominal voltage, cable  | 1.8 kV DC (max U (conductor / conductor, ungrounded system)) |
| Test voltage, cable   | ≥ 8 kV AC (Spark test online (standard designation))         |
| Smallest bending radius, fixed installation                                 | 27 mm (5x Ø)   |
| Smallest bending radius, movable installation                               | 54 mm (10x Ø)  |
| Cable pull-out force  | > 80 N   |
| Halogen-free  | yes  |
| Resistance to oil   | no   |
| Flame resistance  | no   |

## Mounting

|                   |       |
|-------------------|-------|
| Connection method | Crimp |
|-------------------|-------|

## 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                     |
| Ambient temperature (operation)        | -40 °C ... 85 °C         |
| Ambient temperature (assembly)         | -25 °C ... 50 °C         |
| Resistance to oil                      | no                       |

## Standards and regulations

|                   |    |
|-------------------|----|
| Flame resistance  | no |
| Resistance to oil | no |

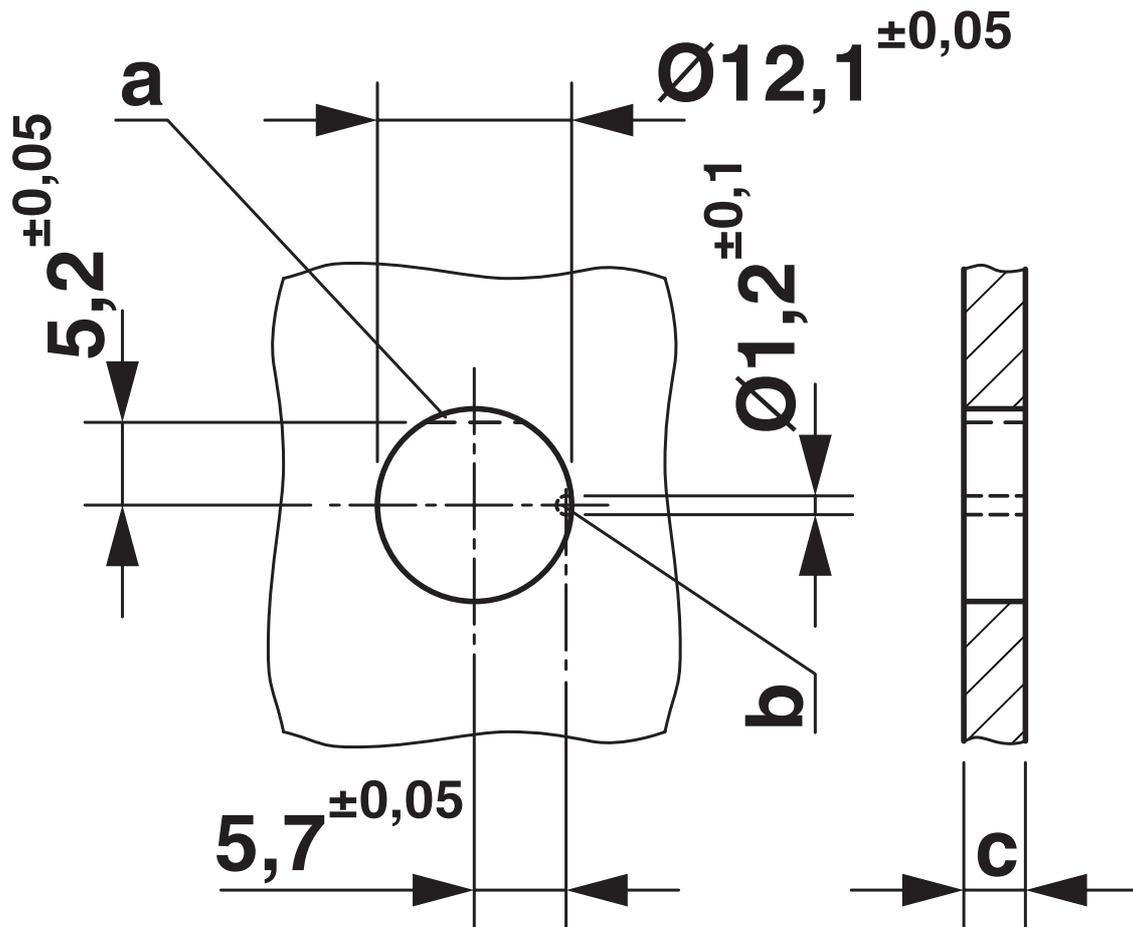
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## Drawings

Dimensional drawing



a: anti-rotation protection

b: coding

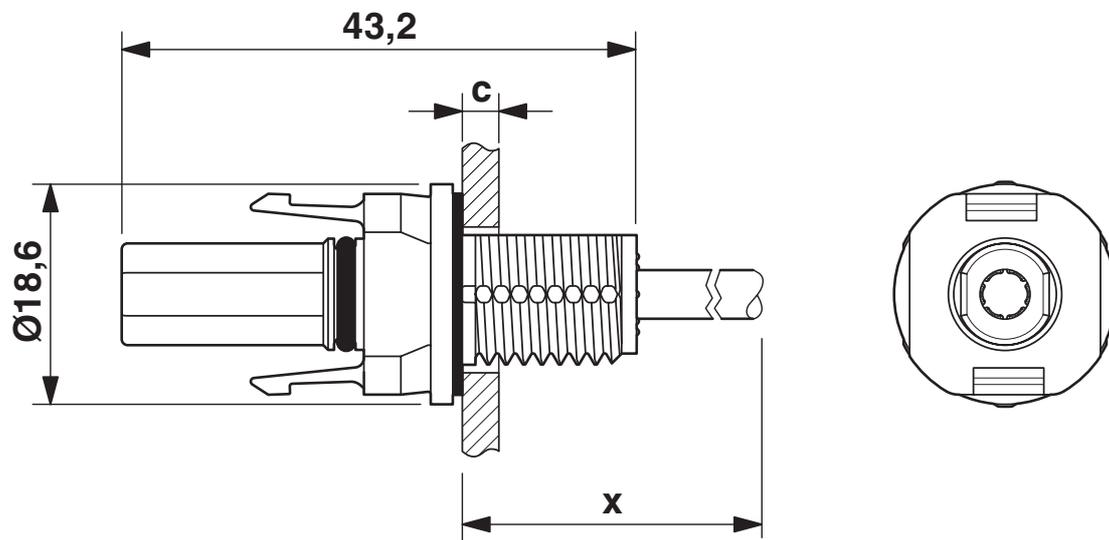
c: panel thickness - plastic: 2 - 6 mm; metal: 2 - 5 mm

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Dimensional drawing



Dimension x = cable length

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

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## Approvals

🔗 To download certificates, visit the product detail page: <https://www.phoenixcontact.com/us/products/1805177>



**EAC**

Approval ID: B.01687



**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 8.0 | EC002635 |
|----------|----------|

### UNSPSC

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

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## Environmental product compliance

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

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## Accessories

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

1775880

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

Panel feed-through, Range of articles: Sunclix, Screw connection



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### PV-C PROTECTION CAP - Protective cap

1785430

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