

1386381

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Photovoltaic connector, Range of articles: SUNCLIX, color: black, number of positions: 1, min. conductor cross-section: 2.5 mm², max. conductor cross-section: 6 mm², 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 1774674

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 | 1386381 |
|--------------------------------------|---------------|
| Packing unit | 50 pc |
| Minimum order quantity | 50 pc |
| Product key | ABLBBA |
| GTIN | 4063151762629 |
| Weight per piece (including packing) | 11.6 g |
| Weight per piece (excluding packing) | 11.6 g |
| Customs tariff number | 85359000 |
| Country of origin | DE |



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Technical data

Notes

| Order information: | Follow-up item to 1774674 |
|--------------------|--|
| fety 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). |
| | 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 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 |
| | |



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| | standards. |
|-----------------------------|---|
| | Observe the minimum bending radius of the cable. Lay the cable without twisting it. |
| oduct properties | |
| Product family | SUNCLIX |
| Number of positions | 1 |
| Insulation characteristics | |
| Protection class | II |
| Degree of pollution | 2 |
| ectrical properties | |
| Rated voltage (III/2) | 1100 V |
| Nominal voltage ATD | 1100 V DC (III/2.00) in accordance with IEC 62852:2014/AMD1: 020 |
| 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)) |
| onnection data | |
| Connection method | Spring-cage |
| mensions | |
| Dimensional drawing | |
| | 60,5 10 15 d |
| Width | 19 mm |
| Height | 19 mm |
| Length | 60.9 mm |
| aterial specifications | |
| Color | black |
| Color of the housing part | black |
| Material Housing | PPE |
| Material Seal | EPDM |
| Material Cable gland | PPE |
| | |



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| 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 |
| Stripping length of the individual wire | 15 mm |
| 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 |
|--------------------------|--------------------------|

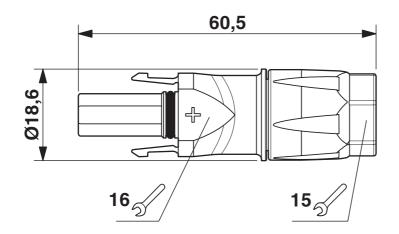


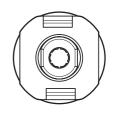
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Drawings

Dimensional drawing







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Approvals

🌣 To download certificates, visit the product detail page: https://www.phoenixcontact.com/pc/products/1386381



TÜV Rheinland

Approval ID: R 60165497-0001



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Classifications

ECLASS

| | ECLASS-13.0 | 27440107 | |
|--------|-------------|----------|--|
| | ECLASS-15.0 | 27440107 | |
| | | | |
| ETIM | | | |
| | ETIM 9.0 | EC002635 | |
| UNSPSC | | | |
| Oi | 101 00 | | |
| | UNSPSC 21.0 | 39121400 | |



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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 | ecb97017-25d4-4eee-8ed8-12db55d6caaf | |



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Accessories

PV-C PROTECTION CAP - Protective cap

1785430

https://www.phoenixcontact.com/pc/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



SZF 1-0,6X3,5 - Screwdriver

1204517

https://www.phoenixcontact.com/pc/products/1204517



Actuation tool, for ST terminal blocks, also suitable for use as a bladed screwdriver, size: $0.6\,x\,3.5\,x\,100$ mm, 2-component grip, with non-slip grip



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QUICK WIREFOX 6 SC - Stripping pliers

1207637

https://www.phoenixcontact.com/pc/products/1207637



Stripping pliers for short-circuit proof conductors, stripping range: 1.5 up to 6 $\rm mm^2$, wire cutting up to 6 $\rm mm^2$ cable stopper up to 18 $\rm mm^2$

WIREFOX-D SR 6-1 - Stripping tool

1212511

https://www.phoenixcontact.com/pc/products/1212511



Stripping tool, for standard 2.5, 4, and 6 mm² solar cables, with 15 mm length stop, for SUNCLIX field connectors



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PV-C PLUG - Filler plug

1775631

https://www.phoenixcontact.com/pc/products/1775631



Filler plug, Range of articles: SUNCLIX, color: black

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