

1386381

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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 mm2, max. conductor cross section: 6 mm2, rated voltage: 1100 V DC, rated current: 35 A, Connection method: Spring-cage, Contact connection type: Socket, 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 50 pc
Packing unit	50 pc ABLBBA
Minimum order quantity	ABLBBA
Sales key	4063151762629
Product key	11.625 g 11.58
GTIN	g 85359000 DE
Weight per piece (including packing)	
Weight per piece (excluding packing)	
Customs tariff number	
Country of origin	

Technical data

Notes

Order information:	Follow-up item to 1774674
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). • 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

standards.

- Observe the minimum bending radius of the cable. Lay the cable without twisting it.

Product properties

Product type	Photovoltaic connector
Product family	SUNCLIX
Number of positions	1

Data management status

Article revision	02
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Insulation characteristics

Protection class	II
Degree of pollution	2

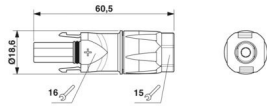
Electrical properties

Rated voltage (III/2)	1100 V 1100 V DC (III/2.00) in accordance with
Nominal voltage ATD	IEC 62852:2014/AMD1:2020
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 mm ²)	35 A (in accordance with IEC 62852:2014/AMD1:2020)
Rated current (4.0 mm ²)	30 A (in accordance with IEC 62852:2014/AMD1:2020)
Rated current (2.5 mm ²)	20 A (in accordance with IEC 62852:2014/AMD1:2020)
Contact resistance	≤ 0.45 mΩ (when plugged in (without cable))

Connection data

Connection method	Spring-cage
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Dimensions

Dimensional drawing	
Width	19 mm
Height	19 mm
Length	60.9 mm

Material specifications

Color	black black
Color of the housing part	PPE (Housing)
Material	

Flammability rating according to UL 94	V0
Insulating material group	III
Insulating material	mPPE
Housing material	PPE
Cable seal material	EPDM
Contact material	Cu alloy
Contact surface material	Ag
Contact carrier material	PA 6.6 V0
O-ring material	EPDM
Material for screw connection	PPE

Cable/line

Cable type	in accordance with IEC 62930
External cable diameter	5.5 mm ... 8 mm 5.5 mm ... 8
External cable diameter	mm 2.5 mm² 6 mm² 15 mm >
Single wire, cross section	250 N
Stripping length of the individual wire	
Cable pull-out force	

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

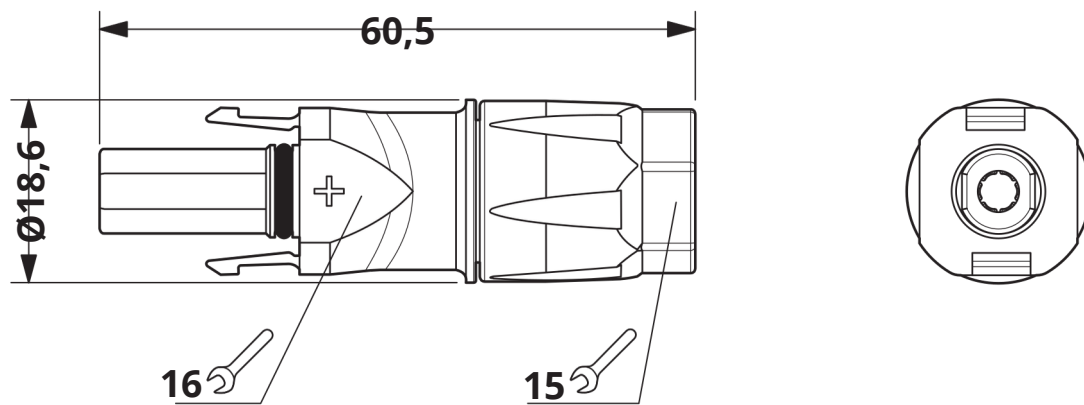
Degree of protection (when plugged in)	IP66 / IP68 (2 m / 24 h)
Degree of protection (not plugged in)	IP20
Degree of protection Ambient	IP66 / IP68 (2 m / 24 h)
temperature (operation) Ambient	-40 °C ... 85 °C (dependent on the derating curve)
temperature (assembly)	-5 °C ... 50 °C

Standards and regulations

Standards/specifications	IEC 62852:2014/AMD1:2020
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Drawings

Dimensional drawing



Approvals

 To download certificates, visit the product detail page: <https://www.phoenixcontact.com/fr/produits/1386381>



TÜV Rheinland
Approval ID: R 60165497-0001

Classifications

ECLASS

ECLASS-11.0	27440109
ECLASS-12.0	27440109
ECLASS-13.0	27440109

ETIM

ETIM 9.0	EC003569
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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.)	No substance above 0.1 wt%