

1196766

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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: 1500 V DC, rated current: 38 A, Connection method: Crimp, Contact connection type: Pin, min. cable diameter: 5 mm, max. cable diameter: 8 mm

### Your advantages

- · Crimp connection technology for automated assembly processes
- · High yield, thanks to silver-plated contacts
- · Convenient release without a special tool
- Unique SUNCLIX pin connector pattern

#### Commercial data

Item number	1196766
Packing unit	50 pc
Minimum order quantity	50 pc
Product key	ABLBBB
GTIN	4063151255701
Weight per piece (including packing)	14.786 g
Weight per piece (excluding packing)	14.758 g
Country of origin	IN



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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).
- 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.



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	Observe the orbits or handles at the color
	<ul> <li>Observe the minimum bending radius of the cable. Lay the cable without twisting it.</li> </ul>
roduct properties	
Product type	Photovoltaic connector
Product family	SUNCLIX
Number of positions	1
Insulation characteristics	
Protection class	II
Degree of pollution	2
actrical proportion	
ectrical properties	
Rated voltage (II/2)	1500 V
Nominal voltage ATD	1500 V DC (II/2.00) in accordance with IEC 62852:2014/AMD1:2
	1500 V DC in accordance with UL 6703
Rated surge voltage	16 kV
Rated surge voltage (III/3)	16 kV
Rated current	38 A (in accordance with IEC 62852:2014/AMD1:2020)
Rated current (4.0 mm²)	32 A (in accordance with IEC 62852:2014/AMD1:2020)
Rated current (2.5 mm²)	26 A (in accordance with IEC 62852:2014/AMD1:2020)
Rated current	50 A (in accordance with UL 6703)
	35 A (in accordance with UL 6703)
	30 A (in accordance with UL 6703)
Contact resistance	≤ 0.45 mΩ
Contact resistance	< 0.3 mΩ (Crimp to crimp)
onnection data	
Connection method	Crimp
Stripping length	8 mm
mensions	
Width	20 mm
Height	27.4 mm
Length	75.1 mm
aterial specifications	
Color	black
Color of the housing part	black
	V0
Flammability rating according to UL 94	
Flammability rating according to UL 94 Insulating material group	II.
Insulating material group	II mPPF
Insulating material group Insulating material	mPPE
Insulating material group	



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Standards/specifications

Housing material	PPE
able/line	
Cable type	in accordance with IEC 62930
External cable diameter ()	5 mm 8 mm
External cable diameter	5 mm 8 mm
Single wire, cross section	2.5 mm² 6 mm² 14 AWG 10 AWG
Stripping length of the individual wire	9 mm -1 mm
Cable pull-out force	> 80 N (IEC 62852:2014)
echanical properties	
Outside conductor diameter	5.00 mm 8.00 mm
Mechanical data	
Outside conductor diameter	5.00 mm 8.00 mm
Insertion/withdrawal cycles	100
Insertion force	45 N ±10 N
Withdrawal force	250 N ±50 N (when locked)
nvironmental and real-life conditions  Ambient conditions	IDCC / IDCC (Ore / OAh) (elument in)
Degree of protection	IP66 / IP68 (2m / 24h) (plugged in)
Degree of protection	
Degree of protection	IP20 (Not plugged in)
	IP20 (Not plugged in) IP66 / IP68 (2 m / 24 h)
Ambient temperature (operation)  Ambient temperature (assembly)	IP20 (Not plugged in)

IEC 62852:2014/AMD1:2020



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## Classifications

### **ECLASS**

	ECLASS-11.0	27440107			
	ECLASS-12.0	27440107			
	ECLASS-13.0	27440107			
ETIM					
	ETIM 9.0	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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Phoenix Contact USA 586 Fulling Mill Road Middletown, PA 17057, United States (+717) 944-1300 info@phoenixcon.com