1020775

https://www.phoenixcontact.com/us/products/1020775



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Photovoltaic connector, Range of articles: Sunclix, Connector, housing material: PPE, color: black, number of positions: 1, min. conductor cross section: 2.5 mm<sup>2</sup>, max. conductor cross section: 6 mm<sup>2</sup>, rated voltage: 1500 V DC, rated current: 35 A, Connection method: Spring-cage, Contact connection type: Pin, min. cable diameter: 5 mm, max. cable diameter: 8 mm

### 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	1020775
Packing unit	1 pc
Minimum order quantity	50 рс
Sales key	AB02
Product key	ABLBBA
GTIN	4055626511283
Weight per piece (including packing)	19.73 g
Weight per piece (excluding packing)	19.602 g
Customs tariff number	85359000
Country of origin	IN

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## Technical data

### Notes

<ul> <li>The products must be regularly inspected for damage. Decommission defective products immediately. Replace damaged products. Repairs are not possible.</li> <li>WARNING: Only electrically qualified personnel may insta operate the product. They must observe the following safet notes. The qualified personnel must be familiar with the base electrical engineering. They must be able to recognize and prevent danger. The relevant symbol on the packaging indi that only personnel familiar with electrical engineering are allowed to install and operate the product.</li> <li>WARNING: The connectors may not be plugged in or disconnected under load. Ignoring the warning or improper may damage persons and/or property.</li> <li>The products are suitable for applications in plant, control and electrical device engineering.</li> <li>Assembled products may not be manipulated or improper opened.</li> <li>Only use mating connectors that are specified in the techn data of the standards listed (e.g. the ones listed in the product accessories online at phoenixcontact.com/products).</li> <li>When using the product in direct connection with third-par manufacturers, the user is responsible.</li> <li>For operating voltages &gt; 50 V AC, conductive connector housings must be grounded</li> <li>Ensure that the protective or functional ground has been properly connected.</li> <li>Observe the corresponding technical data. You will find information:</li> <li>On the product</li> <li>On the packing label</li> <li>In the suptiled documentation</li> <li>Online at phoenixcontact.com/products under the product</li> <li>The installation notes/Design In documents online on the download page at phoenixcontact.com/products subst be observed for this product.</li> <li>Use a protective cap to protect connectors that are not in The suitable accessories are available online in the access section of the product at phoenixcontact.com/products</li> <li>The connector warms up in normal operation. Depending ambient conditions, the surface of the connector can</li></ul>	Safety note	WARNING: Commission properly functioning products only
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		• Ensure that when laying the cable, the tensile load on the

#### 1020775

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• 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
Insulation characteristics	

Ш

2

### Insulation characterist

Protection class
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# Degree of pollution

### Electrical properties

Rated voltage (II/2)	1000 V
Rated voltage (III/2)	1500 V
Nominal voltage ATD	1500 V DC (III/2) in accordance with IEC 62852:2014/AMD1:202 0
	1500 V DC in accordance with UL 6703
Rated surge voltage	16 kV
Rated surge voltage (II/2)	12 kV
Rated surge voltage (III/2)	12 kV
Rated surge voltage (III/3)	16 kV
Rated current (6.0 mm <sup>2</sup> )	35 A (in accordance with IEC 62852:2014-11)
Rated current (4.0 mm <sup>2</sup> )	30 A (in accordance with IEC 62852:2014-11)
Rated current (2.5 mm <sup>2</sup> )	20 A (in accordance with IEC 62852:2014-11)
Rated current	30 A (in accordance with UL 6703)
	35 A (in accordance with UL 6703)
	50 A (in accordance with UL 6703)
Contact resistance	0.45 mΩ
Contact resistance	$\leq$ 0.45 m $\Omega$ (when plugged in (without cable))

### Dimensions

Dimensional drawing	920 13 Ja Ja
Width	20 mm
Height	27.4 mm
Length	82.6 mm

### Material specifications

Color	black
Color of the housing part	black
Material	PPE
Flammability rating according to UL 94	V0

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Insulating material group	II
Insulating material	mPPE
Cable seal material	EPDM
Contact material	Cu
Contact surface material	Ag
Contact carrier material	PA 6.6 V0
O-ring material	Elastosil LR 3065/50
Housing material	PPE

#### Cable/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 mm <sup>2</sup> 6 mm <sup>2</sup> 14 AWG 10 AWG
Stripping length of the individual wire	15 mm
Cable pull-out force	> 80 N

### Mechanical properties

Mechanical data	
Insertion/withdrawal cycles	100
Insertion force	45 N ±10 N
Withdrawal force	250 N ±50 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)	-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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### Mounting

Connection method

Spring-cage

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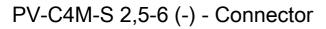
### Approvals

🌣 To download certificates, visit the product detail page: https://www.phoenixcontact.com/us/products/1020775

<b>71</b>	UL Recognized Approval ID: E477377-20180202					
		Nominal voltage $U_N$	Nominal current I <sub>N</sub>	Cross section AWG	Cross section mm <sup>2</sup>	
		1500 V	50 A	- 10	-	
EAC	EAC Approval ID: B.01687					



**TÜV Rheinland** Approval ID: R60169305 0001



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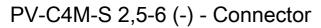
## Classifications

### ECLASS

ECLASS-11.0	27440102
ECLASS-12.0	27440116
ECLASS-13.0	27440116

### 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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