

# PV-C1F-S 2,5-6 (+) - Connector



1789821

<https://www.phoenixcontact.com/us/products/1789821>

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Connector, Range of articles: SUNCLIX, 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 current: 27 A, Connection method: Spring-cage

## Commercial data

Item number	1789821
Packing unit	1 pc
Note	Made to order (non-returnable)
Sales key	AB02
Product key	ABLBBA
GTIN	4046356626828
Weight per piece (including packing)	16.34 g
Weight per piece (excluding packing)	16.34 g
Customs tariff number	85359000
Country of origin	DE

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## Technical data

### Product properties

Product type	Photovoltaic connectors
Product family	SUNCLIX
Number of positions	1
Pitch	2.5 mm

### Insulation characteristics

Protection class	II
Degree of pollution	3

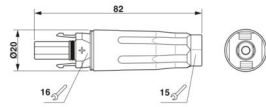
### Electrical properties

Rated voltage (III/2)	1500 V
Rated surge voltage (III/3)	16 kV
Rated current (2.5 mm <sup>2</sup> )	27 A
Rated current (4.0 mm <sup>2</sup> )	40 A
Rated current	40 A
Contact resistance	0.45 mΩ
Contact resistance	≤ 0.45 mΩ (when plugged in (without cable))

### Connection data

Connection method	Spring-cage
Stripping length	15 mm

### Dimensions

Dimensional drawing	
Width	20 mm
Height	20 mm
Length	60 mm
Pitch	2.5 mm

### Material specifications

Color	black
Color of the housing part	black
Flammability rating according to UL 94	V0
Insulating material group	CTI 600
Insulating material	mPPE
Contact surface	Tin Sn
Housing material	PPE

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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
Material for screw connection	PPE

## Cable/line

Cable type	PV1-F cables
External cable diameter	5 mm ... 8 mm
Single wire, cross section	2.5 mm <sup>2</sup> 6 mm <sup>2</sup>
Stripping length of the individual wire	15 mm
Cable pull-out force	> 330 N
Halogen-free	yes

## Mechanical properties

Outside conductor diameter	8.00 mm 5.00 mm
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### Mechanical data

Outside conductor diameter	8.00 mm 5.00 mm
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)
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Ambient temperature (operation) (male connector/female connector)	-40 °C ... 85 °C
Ambient temperature (assembly)	-25 °C ... 50 °C

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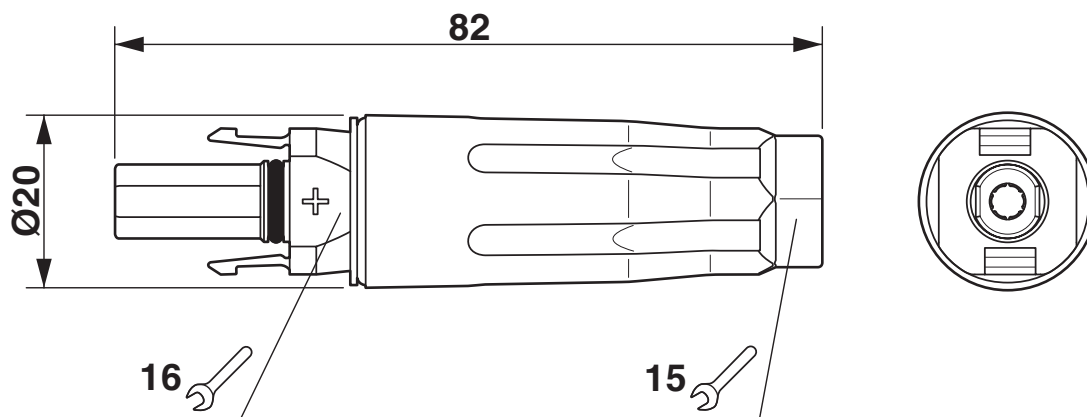
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## Drawings

Dimensional drawing



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## Classifications

### ECLASS

ECLASS-13.0	27440107
ECLASS-15.0	27440107

### ETIM

ETIM 9.0	EC002635
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## Environmental product compliance

### EU RoHS

Fulfills EU RoHS substance requirements	Yes, No exemptions
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### 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%
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