

# Connector - PV-C1F-S 2,5-6 (+) - 1789821


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Photovoltaic connector, Connector, Housing material: PPE, color: black, number of positions: 1, Min. wire 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, Type of contact: Socket. can only be released using a tool



## Key Commercial Data

Packing unit	50 pc
GTIN	 4 046356 626828
GTIN	4046356626828
Weight per Piece (excluding packing)	16.340 g
Custom tariff number	85359000
Country of origin	Germany
Note	Made to Order (non-returnable)

## Technical data

### Dimensions

External cable diameter	5 mm ... 8 mm
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### Ambient conditions

Degree of protection (when plugged in)	IP66 / IP68 (2 m / 24 h)
Ambient temperature (operation)	-40 °C ... 85 °C
Ambient temperature (assembly)	-25 °C ... 50 °C

### General

Design	Socket
Tightening torque nut	2 Nm ±0.1 Nm
Insertion force	45 N ±10 N
Disconnect force	250 N ±50 N
Pull-out force of cable >= disconnect force	> 330 N
Rated voltage	1500 V
Rated current (2.5 mm <sup>2</sup> )	27 A

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## Technical data

### General

Rated current (4.0 mm <sup>2</sup> )	40 A
Nominal cross section	6 mm <sup>2</sup>
Protection class	II

### Material

Color	black
Insulating material	mPPE
Contact material	Cu
Contact surface material	Ag
Flammability rating according to UL 94	V0

### Connection data

Connection method	Spring-cage
Connection capacity	2.5 mm <sup>2</sup> ... 6 mm <sup>2</sup>
Contact resistance with connected conductor	0.45 mΩ
Stripping length	15 mm
Cable type	PV1-F cables

### Standards and Regulations

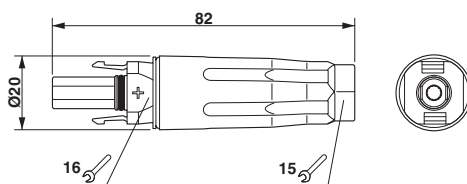
Halogen-free	yes
Flammability rating according to UL 94	V0

### Environmental Product Compliance

China RoHS	Environmentally friendly use period: unlimited = EFUP-e
	No hazardous substances above threshold values

## Drawings

Dimensional drawing



## Classifications

### eCl@ss

eCl@ss 4.0	272607xx
eCl@ss 4.1	27260701
eCl@ss 5.0	27260701
eCl@ss 5.1	27260700

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## Classifications

### eCl@ss

eCl@ss 6.0	27260700
eCl@ss 7.0	27440102
eCl@ss 8.0	27440102
eCl@ss 9.0	27440103

### ETIM

ETIM 4.0	EC002637
ETIM 5.0	EC002635
ETIM 6.0	EC002061

### UNSPSC

UNSPSC 6.01	30211810
UNSPSC 7.0901	39121409
UNSPSC 11	39121409
UNSPSC 12.01	39121409
UNSPSC 13.2	39121413

## Approvals

### Approvals

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Approvals

EAC

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Ex Approvals

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### Approval details

EAC		B.01742
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## Accessories

Accessories

Protective cap

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### Accessories

Protective cap - PV-C PROTECTION CAP - 1785430

Protective cap for SUNCLIX photovoltaic connector; transport protection for the mating face.



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### Screwdriver tools

Screwdriver - SZF 1-0,6X3,5 - 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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### Sealing plugs

Filler plugs - PV-C-PLUG-HV - 1623478



Protective cap for 1500 V SUNCLIX photovoltaic connector, for IP67 protection in the cable gland.

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### Stripping tool

Stripping pliers - QUICK WIREFOX 6 SC - 1207637



Stripping tool for short-circuit proof conductors, stripping range: 1.5 up to 6 mm<sup>2</sup>, wire cutting up to 6 mm<sup>2</sup> cable stopper up to 18 mm<sup>2</sup>

Stripping tool - WIREFOX-D SR 6-1 - 1212511



Stripping tool, for standard 2.5, 4, and 6 mm<sup>2</sup> solar cables, with 15 mm length stop, for SUNCLIX field connectors

