PV-C3F-S 2,5-6 (+) - Photovoltaic connector

1386381

https://www.phoenixcontact.com/us/products/1386381

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Photovoltaic connector, Range of articles: SUNCLIX, color: black, number of positions: 1, min. conductor cross-section: 2.5 mm^2, max. conductor cross-section: 6 mm^2, rated voltage: 1100 V DC, rated current: 35 A, Connection method: Spring-cage, 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
Packing unit	50 pc
Minimum order quantity	50 pc
Sales key	AB02
Product key	ABLBBA
GTIN	4063151762629
Weight per piece (including packing)	11.46 g
Weight per piece (excluding packing)	18.101 g
Customs tariff number	85359000
Country of origin	DE

Technical data

Notes

Order information:	Follow-up item to 1774674

Product properties

Product type	Photovoltaic connectors
Product family	SUNCLIX
Number of positions	1

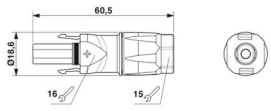
Insulation characteristics

Protection class	II
Degree of pollution	2

Electrical properties

Rated voltage (III/2)	1100 V
Rated voltage	1100 V DC (III/2) in accordance with 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 mm²)	35 A (in accordance with IEC 62852:2014/AMD1:2020)
Rated current (4.0 mm²)	30 A (in accordance with IEC 62852:2014/AMD1:2020)
Rated current (2.5 mm²)	20 A (in accordance with IEC 62852:2014/AMD1:2020)
Contact resistance	≤ 0.45 mΩ (when plugged in (without cable))

Dimensions

Dimensional drawing	
Width	19 mm
Height	19 mm
Length	60.9 mm

Material specifications

Color	black
Color of the housing part	black
Material Housing	PPE
Material Seal	EPDM
Material Cable gland	PPE
Material Contact	Cu alloy

Material Contact carrier	PA 6.6 (V0)
Flammability rating according to UL 94	V0
Insulating material group	III
Insulating material	mPPE
Contact surface material	Ag
O-ring material	EPDM

Cable/line

External cable diameter	5.5 mm ... 8 mm
External cable diameter	5.5 mm ... 8 mm
Single wire, cross section	2.5 mm² 6 mm²
Cable pull-out force	> 250 N

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

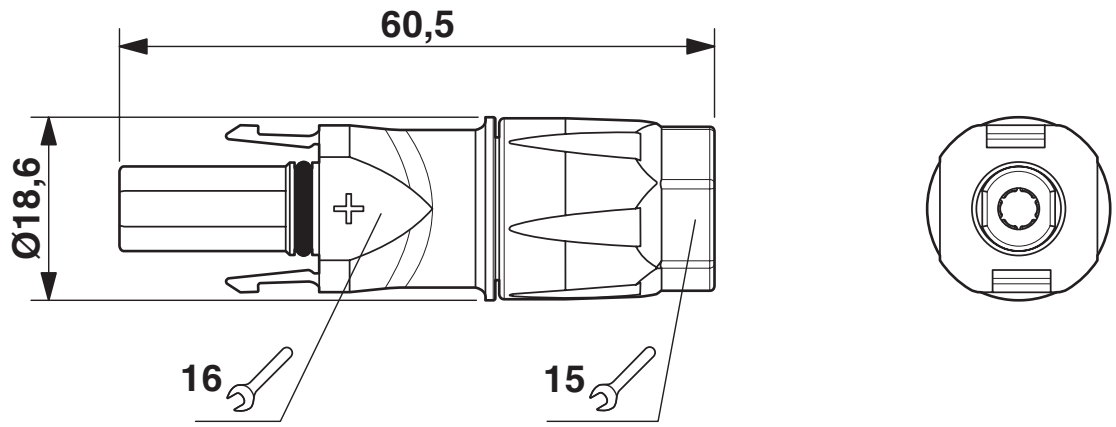
Degree of protection (when plugged in)	IP66/IP68 (2 m / 24 h)
Degree of protection (not plugged in)	IP20
Degree of protection	IP66/IP68 (2 m / 24 h)
Ambient temperature (operation) (male connector/female connector)	-40 °C ... 85 °C (dependent on the derating curve)
Ambient temperature (assembly)	-5 °C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

Standards and regulations

Standards/specifications	IEC 62852:2014/AMD1:2020

Drawings

Dimensional drawing



Approvals

To download certificates, visit the product detail page: https://www.phoenixcontact.com/us/products/1386381

TÜV Rheinland
Approval ID: R 60165497-0001

Classifications

ECLASS

ECLASS-13.0	27440107
ECLASS-15.0	27440107

ETIM

ETIM 10.0	EC002635

UNSPSC

UNSPSC 21.0	39121400

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.)	Triphenyl phosphate(CAS: 115-86-6)
SCIP	ecb97017-25d4-4eee-8ed8-12db55d6caaf

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