PV-C4M-S 2,5-6 (-) - Photovoltaic connector

1020775

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

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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: 1500 V DC, rated current: 35 A, Connection method: Spring-cage, 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	50 pc
Minimum order quantity	50 pc
Sales key	AB02
Product key	ABLBBA
GTIN	4055626511283
Weight per piece (including packing)	19.73 g
Weight per piece (excluding packing)	19.211 g
Customs tariff number	85359000
Country of origin	IN

Technical data

Product properties

Product type	Photovoltaic connectors
Product family	SUNCLIX
Number of positions	1

Insulation characteristics

Protection class	II
Degree of pollution	2

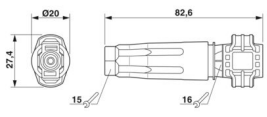
Electrical properties

Rated voltage (II/2)	1000 V
Rated voltage (III/2)	1500 V
Rated voltage	1500 V DC (III/2) in accordance with IEC 62852:2014/AMD1:2020
	1500 V DC in accordance with UL 6703
	2000 V DC in accordance with TÜV Rh. 2 PfG 2925/01.23
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 mm²)	35 A (in accordance with IEC 62852:2014-11)
Rated current (4.0 mm²)	30 A (in accordance with IEC 62852:2014-11)
Rated current (2.5 mm²)	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	≤ 0.45 mΩ (when plugged in (without cable))

Connection data

Stripping length	15 mm

Dimensions

Dimensional drawing	
Width	20 mm
Height	27.4 mm
Length	82.6 mm

Material specifications

Color	black
Color of the housing part	black
Material Housing	PPE
Material Seal	EPDM
Material Contact	Cu
Material Contact carrier	PA 6.6 (V0)
Flammability rating according to UL 94	V0
Insulating material group	II
Insulating material	mPPE
Contact surface material	Ag
O-ring material	Elastosil LR 3065/50

Cable/line

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
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

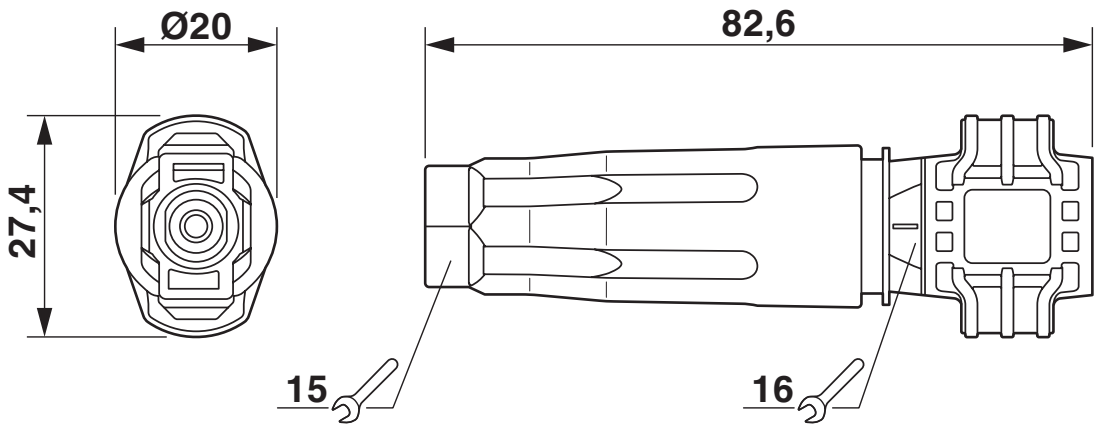
Degree of protection (when plugged in)	IP66/IP68 (2 m / 24 h)
Degree of protection (not plugged in)	IP20
Degree of protection	IP66/IP68 (2 m / 24 h)
Ambient temperature (operation) (male connector/female connector)	-40 °C ... 85 °C (dependent on the derating curve)
Ambient temperature (assembly)	-5 °C ... 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/1020775

UL Recognized
Approval ID: E477377-20180202

	Nominal voltage U_N	Nominal current I_N	Cross section AWG	Cross section mm^2
keine				
	1500 V	50 A	- 10	-

TÜV Rheinland
Approval ID: R60169305 0001

	Nominal voltage U_N	Nominal current I_N	Cross section AWG	Cross section mm^2
keine				
	1500 V	35 A	-	2.5 - 6

TÜV Rheinland
Approval ID: R60169305 0002

	Nominal voltage U_N	Nominal current I_N	Cross section AWG	Cross section mm^2
keine				
	2000 V	35 A	-	-

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)

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