PV-C1F-C-HSG - Photovoltaic connector

1050771

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CRIMP



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: 51 A, Connection method: Crimp, min. cable diameter: 5 mm, max. cable diameter: 8 mm

Your advantages

- Crimp connection technology for automated assembly processes
- High yield, thanks to silver-plated contacts
- International approvals in accordance with IEC and UL enable worldwide use
- Unique SUNCLIX pin connector pattern

Commercial data

Item number	1050771
Packing unit	50 pc
Minimum order quantity	50 pc
Sales key	AB02
Product key	ABLBBB
GTIN	4055626669632
Weight per piece (including packing)	9.821 g
Weight per piece (excluding packing)	9.821 g
Customs tariff number	85359000
Country of origin	IN

Technical data

Notes

Safety note

Safety note	• WARNING: Only electrically qualified personnel may install and operate the product. They must observe the following safety notes. The qualified personnel must be familiar with the basics of electrical engineering. They must be able to recognize and prevent danger. The relevant symbol on the packaging indicates that only personnel familiar with electrical engineering are allowed to install and operate the product.

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)	1500 V
Rated voltage	1500 V DC (II/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 (III/3)	16 kV
Rated current (10 mm²)	51 A (in accordance with IEC 62852:2014/AMD1:2020)
Rated current (6.0 mm²)	40 A (in accordance with IEC 62852:2014/AMD1:2020)
Rated current (4.0 mm²)	34 A (in accordance with IEC 62852:2014/AMD1:2020)
Rated current (2.5 mm²)	27 A (in accordance with IEC 62852:2014/AMD1:2020)
Rated current	50 A (in accordance with UL 6703)
	35 A (in accordance with UL 6703)
	30 A (in accordance with UL 6703)
Contact resistance	≤ 0.45 mΩ
Contact resistance	< 0.3 mΩ (Crimp to crimp)

Connection data

Stripping length	8 mm

Dimensions

Width	20 mm
Height	20 mm
Length	72.8 mm

Material specifications

Color	black
Color of the housing part	black
Material Housing	PPE
Material Contact	Cu
Flammability rating according to UL 94	V0
Insulating material group	II
Insulating material	mPPE
Cable seal material	EPDM
Contact surface material	Ag
O-ring material	Silopren LSR 2660

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 (IEC 62852:2014)

Mechanical properties

Outside conductor diameter	5.00 mm 8.00 mm

Mechanical data

Outside conductor diameter	5.00 mm 8.00 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	IP66/IP68 (2 m / 24 h) (plugged in)
	IP20 (Not plugged in)
	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

Approvals

To download certificates, visit the product detail page: https://www.phoenixcontact.com/us/products/1050771

UL Recognized
Approval ID: E477377-20230908

	Nominal voltage U_N	Nominal current I_N	Cross section AWG	Cross section mm^2
keine				
	1500 V	50 A	14 - 10	-

TÜV Rheinland
Approval ID: R 60159495-0001

	Nominal voltage U_N	Nominal current I_N	Cross section AWG	Cross section mm^2
keine				
	1500 V	40 A	-	2.5 - 6

TÜV Rheinland
Approval ID: R 60159495-0004

	Nominal voltage U_N	Nominal current I_N	Cross section AWG	Cross section mm^2
keine				
	2000 V	40 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)
SCIP	151bb1c0-f06b-416f-be4b-0f0d48230e33

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Phoenix Contact USA
586 Fulling Mill Road
Middletown, PA 17057, United States
(+717) 944-1300
info@phoenixcon.com