PV-C4F-S 6-16 (+) - Connector

1284634

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Connector, Range of articles: SUNCLIX, color: black, number of positions: 1, min. conductor cross-section: 6 mm^2, max. conductor cross-section: 16 mm^2, rated voltage: 1500 V DC, rated current: 60 A, Connection method: Spring-cage, min. cable diameter: 5.5 mm, max. cable diameter: 10 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	1284634
Packing unit	25 pc
Minimum order quantity	25 pc
Sales key	ABLBBA
Product key	ABLBBA
GTIN	4063151490331
Weight per piece (including packing)	22,51 g
Weight per piece (excluding packing)	20,902 g
Customs tariff number	85359000
Country of origin	IN

Technical data

Notes

Safety note

Safety note	• WARNING: Commission properly functioning products only. The products must be regularly inspected for damage. Decommission defective products immediately. Replace damaged products. Repairs are not possible.
	• 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.
	WARNING: The connectors may not be plugged in or disconnected under load. Ignoring the warning or improper use may damage persons and/or property.
	• The products are suitable for applications in plant, controller, and electrical device engineering.
	• Assembled products may not be manipulated or improperly opened.
	• Only use mating connectors that are specified in the technical data of the standards listed (e.g. the ones listed in the product accessories online at phoenixcontact.com/products).
	• When using the product in direct connection with third-party manufacturers, the user is responsible.
	• For operating voltages > 50 V AC, conductive connector housings must be grounded
	• Ensure that the protective or functional ground has been properly connected.
	• Observe the corresponding technical data. You will find information: o On the product o On the packing label o In the supplied documentation o Online at phoenixcontact.com/products under the product
	• The installation notes/Design In documents online on the download page at phoenixcontact.com/products must be observed for this product.
	• Use a protective cap to protect connectors that are not in use. The suitable accessories are available online in the accessory section of the product at phoenixcontact.com/products
	• The connector warms up in normal operation. Depending on the ambient conditions, the surface of the connector can continue to warm up. In this case, the user is responsible for posting warnings (e.g. DIN EN ISO 13732-1:2008-12).
	• Operate the connector only when it is fully plugged in and interlocked.
	• Ensure that when laying the cable, the tensile load on the connectors does not exceed the upper limit specified in the standards.

	• Observe the minimum bending radius of the cable. Lay the cable without twisting it.

Product properties

Product family	SUNCLIX
Number of positions	1

Insulation characteristics

Protection class	II
Degree of pollution	2

Electrical properties

Rated voltage (III/2)	1500 V
Nominal voltage ATD	1500 V DC (II/2.00) in accordance with IEC 62852:2014/AMD1:2020
Rated surge voltage	16 kV
Rated current (16 mm²)	60 A (in accordance with IEC 62852:2014-11)
Rated current (10 mm²)	50 A (in accordance with IEC 62852:2014-11)
Rated current (6.0 mm²)	40 A (in accordance with IEC 62852:2014-11)
Contact resistance	≤ 0.45 mΩ (when plugged in (without cable))

Connection data

Connection method	Spring-cage

Dimensions

Width	23.7 mm
Height	23.7 mm
Length	83.4 mm

Material specifications

Color	black
Color of the housing part	black
Material Housing	PPE
Material Seal	EPDM
Material Cable gland	PPE
Material Contact	Cu
Material Contact carrier	PPE
Flammability rating according to UL 94	V0
Insulating material group	I / CTI 600
Contact surface material	Ni/Ag
O-ring material	Silopren

Cable/line

External cable diameter	5.5 mm ... 10 mm
Single wire, cross section	6 mm² 16 mm² 10 AWG 6 AWG
Stripping length of the individual wire	18 mm

Mechanical properties

Outside conductor diameter	10.00 mm 5.50 mm

Mechanical data

Outside conductor diameter	10.00 mm 5.50 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 / 2 h)
Degree of protection (not plugged in)	IP20
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/nl/products/1284634

TÜV Rheinland
Approval ID: R 60163815-0001

	Nominal voltage U_N	Nominal current I_N	Cross section AWG	Cross section mm^2
keine				
	1500 V	60 A	-	6 - 16

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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