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Connector - PV-C4F-S 6-16 (+) - 1284634

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Photovoltaic connector, Range of articles: SUNCLIX, Connector, housing material: PPE, color: black, number of positions: 1, min. conductor cross section: 6 mm², max. conductor cross section: 16 mm², rated voltage: 1500 V DC, rated current: 60 A, Connection method: Spring-cage, Type of contact: Socket, 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

RoHS

Key Commercial Data

Packing unit	1 pc
Minimum order quantity	25 pc
GTIN	4 063151 490331
GTIN	4063151490331
Custom tariff number	85359000
Country of origin	Germany

Technical data

Ambient conditions

Degree of protection (when plugged in)	IP66 / IP68 (2 m / 24 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

General

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Technical data

General

Standards/regulations	IEC 62852:2014/AMD1:2020
Design	Socket
Tightening torque nut	3 Nm ±0.1 Nm (Cable gland)
Insertion force	45 N ±10 N
Disconnect force	250 N ±50 N (when locked)
Insertion/withdrawal cycles	100
Degree of pollution	2
Rated current	60 A (in accordance with IEC 62852:2014-11)
	50 A (in accordance with IEC 62852:2014-11)
Degree of protection	IP66 / IP68 (2 m / 24 h)
Number of positions	1
Degree of protection	IP66 / IP68 (2 m / 24 h)
	IP20
Rated voltage	1500 V
Rated current (6.0 mm²)	40 A (in accordance with IEC 62852:2014-11)
Rated current (10 mm²)	50 A (in accordance with IEC 62852:2014-11)
Rated current (16 mm²)	60 A (in accordance with IEC 62852:2014-11)
Nominal cross section	16 mm²
Protection class	II

Material

Color	black
Contact material	Cu
Contact surface material	Ni/Ag
Cable gland material	PPE

Connection data

Connection method	Spring-cage
Connection capacity	6 mm² ... 16 mm²
Type of contact	Socket
Current	60 A
	50 A

Standards and Regulations

Halogen-free	yes
Standards/specifications	IEC 62852:2014/AMD1:2020
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.

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Technical data

Standards and Regulations

	• 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.

Classifications

eCl@ss

eCl@ss 11.0	27440107

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Accessories

Accessories

Photovoltaic connector

Protective cap - PV-C PROTECTION CAP - 1785430



Photovoltaic connector, Range of articles: Sunclix, Protective cap, color: black. self-sealing, without interlock, set consisting of: 1 protective cap for connector side and 1 protective cap for coupling side

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



Photovoltaic connector, Range of articles: Sunclix, Filler plugs, housing material: PA 6

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

Stripping tool

Stripping pliers - QUICK WIREFOX 6 SC - 1207637



Stripping tool for short-circuit proof conductors, stripping range: 1.5 up to 6 mm², wire cutting up to 6 mm² cable stopper up to 18 mm²

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Accessories

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



Stripping tool, for standard 2.5, 4, and 6 mm² solar cables, with 15 mm length stop, for SUNCLIX field connectors

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