

Connector - PV-CM-S 6-16 (-) - 1790797

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Photovoltaic connector, Range of articles: PV-CM-S, Connector, housing material: PPE, color: black, number of positions: 1, min. conductor cross section: 6 mm², max. conductor cross section: 16 mm², rated current: 40 A, Connection method: Spring-cage, Type of contact: Pin

RoHS

Key Commercial Data

Packing unit	1 pc
Minimum order quantity	25 pc
GTIN	 4 046356 607438
GTIN	4046356607438
Weight per Piece (excluding packing)	24.000 g
Custom tariff number	85359000
Country of origin	Germany

Technical data

Dimensions

External cable diameter	5.5 mm ... 10 mm
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Ambient conditions

Degree of protection (when plugged in)	IP66 /IP68 (2 m / 24 h)
Ambient temperature (operation)	-40 °C ... 85 °C
Ambient temperature (assembly)	-25 °C ... 50 °C

General

Design	Pin
Tightening torque nut	3 Nm ±0.1 Nm
Insertion force	45 N ±10 N

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Technical data

General

Disconnect force	250 N ±50 N (when locked)
Pull-out force of cable >= disconnect force	> 500 N
Insertion/withdrawal cycles	100
Degree of pollution	3
Degree of protection	IP66 /IP68 (2 m / 24 h)
Number of positions	1
Current	65 A
Rated surge voltage (III/3)	16 kV
pluggable	Yes
Degree of protection	IP66 / IP68 (2 m / 24 h)
Rated voltage	1500 V
Rated current (6.0 mm²)	40 A
Rated current (10 mm²)	50 A
Rated current (16 mm²)	65 A
Nominal cross section	16 mm²
Protection class	II

Material

Color	black
Insulating material	mPPE
Contact material	Cu
Contact surface material	Ag
Cable gland material	PPE

Connection data

Connection method	Spring-cage
Connection capacity	6 mm² ... 16 mm²
Contact resistance with connected conductor	0.45 mΩ
Stripping length	18 mm
Cable type	PV1-F cables
Type of contact	Pin

Standards and Regulations

Halogen-free	yes
Flammability rating according to UL 94	V0
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

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Standards and Regulations

	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: - On the product - On the packing label - In the supplied documentation - 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.

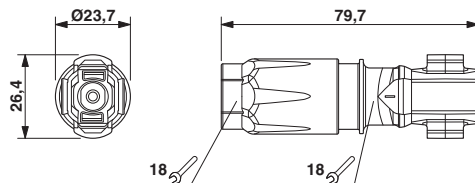
Environmental Product Compliance

China RoHS	Environmentally friendly use period: unlimited = EFUP-e
	No hazardous substances above threshold values

Drawings

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Dimensional drawing



Classifications

eCl@ss

eCl@ss 10.0.1	27440109
eCl@ss 11.0	27440109
eCl@ss 4.0	27260700
eCl@ss 4.1	27260700
eCl@ss 5.0	27260700
eCl@ss 5.1	27260700
eCl@ss 6.0	27260700
eCl@ss 7.0	27440102
eCl@ss 8.0	27440102
eCl@ss 9.0	27440103

ETIM

ETIM 4.0	EC002637
ETIM 5.0	EC002635
ETIM 6.0	EC002061

UNSPSC

UNSPSC 6.01	30211810
UNSPSC 7.0901	39121409
UNSPSC 11	39121409
UNSPSC 12.01	39121409
UNSPSC 13.2	39121413
UNSPSC 18.0	39121413
UNSPSC 19.0	39121413
UNSPSC 20.0	39121413
UNSPSC 21.0	39121413

Approvals

Approvals

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Approvals

Approvals

TÜV Rheinland / EAC

Ex Approvals

Approval details

TÜV Rheinland		http://www.certipedia.com	R 60126961
Nominal voltage UN		1500 V	

EAC		B.01687	
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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, Filler plugs, housing material: PA 6

Screwdriver tools

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Accessories

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