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Photovoltaic connector, Photovoltaic connector, housing material: PPE, color: black, number of positions: 1, min. conductor cross section: 6 mm², Connection method: Crimp, Type of contact: Pin, cable length: 500



### **Key Commercial Data**

Packing unit	50 pc
Minimum order quantity	50 pc
GTIN	4 055626 139654
GTIN	4055626139654

### Technical data

#### **Dimensions**

Fixed cable length	500 mm
External cable diameter	5.4 mm ±0.15 mm

### 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
Ambient temperature (assembly)	-25 °C 50 °C

### General

Design	Pin
Tightening torque nut	1.8 Nm ±0.1 Nm
Insertion force	45 N ±10 N
Disconnect force	250 N ±50 N (when locked)
Pull-out force of cable >= disconnect force	> 80 N
Insertion/withdrawal cycles	100
Cable cross section	6 mm²
Degree of pollution	3



### Technical data

### General

Degree of protection	IP20
Number of positions	1
Locking type	Latching (can only be released using tool)
Current	40 A
Rated surge voltage (III/3)	16 kV
pluggable	Yes
Rated voltage	1500 V
Rated current (6.0 mm²)	40 A
Nominal cross section	6 mm²
Protection class	II

#### Material

Color	black
Insulating material	mPPE
Contact material	Cu
Contact surface material	Ag
Flammability rating according to UL 94	V0

#### Connection data

Connection method	Crimp
Connection capacity	6 mm <sup>2</sup>
Contact resistance with connected conductor	0.45 mΩ
Cable type	S03

### Standards and Regulations

Flame resistance	no
Resistance to oil	no
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 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.



### Technical data

### Standards and Regulations

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 o 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.

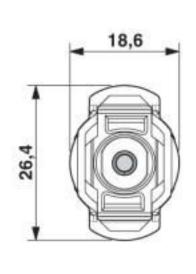
### **Environmental Product Compliance**

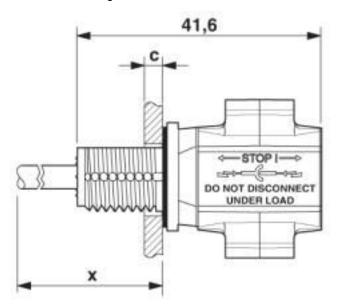
China RoHS	Environmentally friendly use period: unlimited = EFUP-e
	No hazardous substances above threshold values

### Drawings



### Dimensional drawing

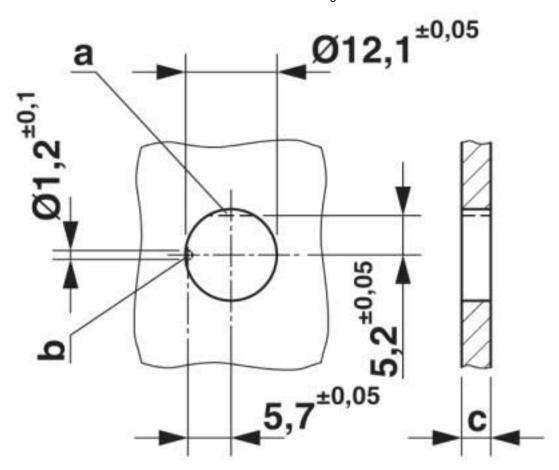




Dimension x = cable length c: panel thickness - plastic: 2 - 6 mm; metal: 2 - 5 mm



#### Dimensional drawing



a: anti-rotation protection

b: coding

c: panel thickness - plastic: 2 - 6 mm; metal: 2 - 5 mm

### Classifications

### eCl@ss

eCl@ss 10.0.1	27440107
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	27440107

### **ETIM**

ETIM 5.0	EC002635



### Classifications

### **ETIM**

ETIM 6.0	EC002061
ETIM 7.0	EC002635

#### **UNSPSC**

UNSPSC 13.2	39121413
UNSPSC 18.0	39121413
UNSPSC 19.0	39121413
UNSPSC 20.0	39121413
UNSPSC 21.0	39121413

### **Approvals**

#### Approvals

Approvals

TÜV Rheinland / EAC

Ex Approvals

### Approval details

TÜV Rheinland	1000-000-000-000-000-000-000-000-000-00	http://www.certipedia.com	R 60126961
Nominal voltage UN		1500 V	

EAC	ERC	B.01687
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### Accessories

Accessories

Photovoltaic connector

Nut - PV-FT-C NUT BK - 1775880



Photovoltaic connector, Range of articles: SUNCLIX, Nut, number of positions: 0



### Accessories

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

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