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Photovoltaic connector, Photovoltaic connector, housing material: PPE, color: black, min. conductor cross section: 4 mm², Connection method: Crimp, Type of contact: Pin, cable length: 130



# **Key Commercial Data**

Packing unit	50 pc
GTIN	4 0 4 6 3 5 6 6 7 1 4 4 6
GTIN	4046356671446

### Technical data

### **Dimensions**

Fixed cable length	130 mm
External cable diameter	4.6 mm ±0.15 mm

#### Ambient conditions

Degree of protection (when plugged in)	IP66 / IP68 (2 m / 24 h)
Degree of protection (not plugged in)	IP65
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
Pull-out force of cable >= disconnect force	> 80 N
Degree of pollution	3
Degree of protection	IP65
Current	35 A
Rated voltage	1500 V



# Technical data

## General

Rated current (4.0 mm²)	35 A
Nominal cross section	4 mm²
Protection class	П

### 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	4 mm²
Contact resistance with connected conductor	0.45 mΩ
Cable type	S02

### Conductor

Outer sheath, material	PE-X
External sheath, color	red

# 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 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



# Technical data

## Standards and Regulations

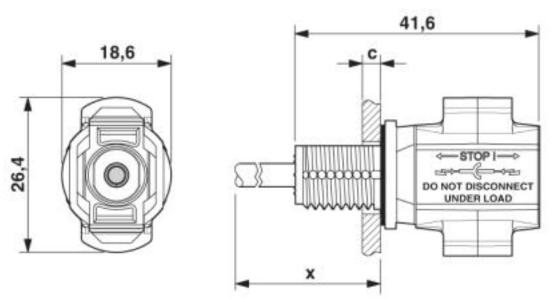
Ensure that the protective or functional ground has been properly connected.
Observe the corresponding technical data. You will find information: On the product On the packing label In the supplied documentation Online at phoenixcontact.com/products under the product
The installation notes/Design In 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**

### Dimensional drawing

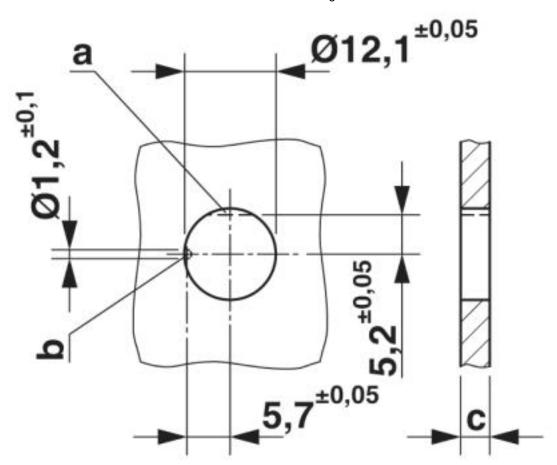


Dimension x = cable length



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

### Dimensional drawing



## 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
eCI@ss 8.0	27440102
eCl@ss 9.0	27440107

## **ETIM**

ETIM 3.0	EC001121
ETIM 4.0	EC001753
ETIM 5.0	EC002635



# Classifications

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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TÜV Rheinland / EAC

Ex Approvals

# Approval details

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

EAC **E** B.01687

# Accessories

Accessories

Photovoltaic connector



## Accessories

Nut - PV-FT-C NUT BK - 1775880



Photovoltaic connector, Range of articles: PV-JB TF, Nut, number of positions: 0

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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