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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: 130



Key Commercial Data

Packing unit	1 pc
Minimum order quantity	50 pc
GTIN	4 0 4 6 3 5 6 6 7 1 4 5 3
GTIN	4046356671453
Weight per Piece (excluding packing)	16.800 g
Custom tariff number	85444290
Country of origin	Germany

Technical data

Dimensions

Fixed cable length	130 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



Technical data

General

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
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 mm²
Contact resistance with connected conductor	$\leq 0.45~\text{m}\Omega$
Cable type	S03

Conductor

Outer sheath, material	PE-X
External sheath, color	red, similar to RAL 3000
Smallest bending radius, fixed installation	27 mm (5x Ø)
Smallest bending radius, movable installation	54 mm (10x Ø)

Standards and Regulations

Flame resistance	no



Technical data

Standards and Regulations

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.
	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.



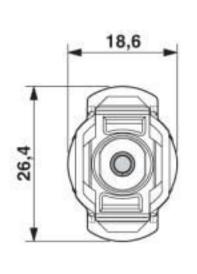
Technical data

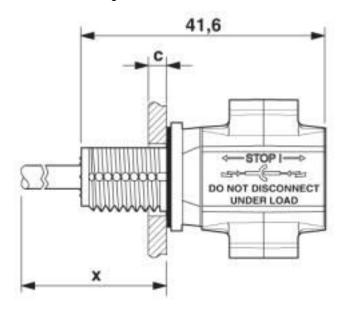
Environmental Product Compliance

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

Drawings

Dimensional drawing

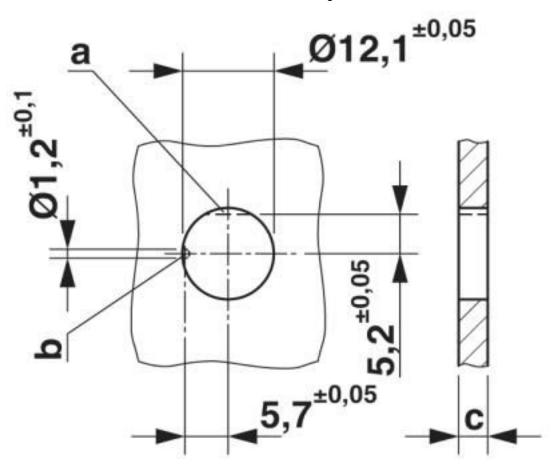




Dimension x = cable length c: panel thickness - plastic: 2 - 6 mm; metal: 2 - 5 mm



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



Classifications

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	@ss

eolwss					
eCl@ss 9.0	27440107				
ETIM					
ETIM 3.0	EC001121				
ETIM 4.0	EC001753				
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				

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Approvals

UNSPSC 18.0

UNSPSC 19.0

UNSPSC 20.0

UNSPSC 21.0

Approvals

Approvals

TÜV Rheinland / EAC

Ex Approvals

Approval details

TÜV Rheinland	TO THE STATE OF TH	http://www.certipedia.com	R 60126961
Nominal voltage UN		1500 V	



Approvals

EAC

EHE

B.01687

Accessories

Accessories

Photovoltaic connector

Nut - PV-FT-C NUT BK - 1775880



Photovoltaic connector, Range of articles: SUNCLIX, 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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