

1706611

https://www.phoenixcontact.com/pc/products/1706611

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Connector set, Range of articles: Sunclix, Connector, housing material: PPE, color: black, min. conductor cross section: 2.5 mm², max. conductor cross section: 6 mm², rated current: 27 A, Connection method: Spring-cage, Contact connection type: Socket; pin

Commercial data

Item number	1706611
Packing unit	1 pc
Minimum order quantity	10 pc
Product key	ABLBBS
GTIN	4046356884587
Weight per piece (including packing)	33.6 g
Weight per piece (excluding packing)	33.6 g
Customs tariff number	85363010
Country of origin	DE

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Technical data

Notes

Safety note

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.



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	 Observe the minimum bending radius of the cable. Lay the cable without twisting it.
oduct properties	
Product type	Connector set
Product family	Sunclix
Insulation characteristics	
Protection class	II
Degree of pollution	3
ectrical properties	
Rated voltage (II/2)	1000 V
Rated voltage (III/2)	1100 V
Rated surge voltage (II/2)	12 kV
Rated surge voltage (III/2)	12 kV
Rated surge voltage (III/3)	12.8 kV
Rated current (2.5 mm²)	27 A
Rated current (4.0 mm²)	35 A
Rated current (6.0 mm²)	40 A
Contact resistance	0.45 mΩ
Connection method	Spring-cage
Tightening torque	2 Nm ±0.1 Nm
aterial specifications	
Color	black
Color of the housing part	black
Flammability rating according to UL 94	V0
Insulating material group	I / CTI 600
Insulating material	mPPE
Contact surface	Silver Ag
Cable seal material	EPDM
Contact material	Cu
Contact surface material	Ag
Contact carrier material	PPE
O-ring material	Silopren
Material for screw connection	PPE
Housing material	PPE
able/line	
Cable type	PV1-F cables
External cable diameter ()	5.5 mm 8 mm
Single wire, cross section	2.5 mm ² 6 mm ²



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Cable pull out force	> 330 N			
Cable pull-out force	> 330 N			
Mechanical properties				
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Mechanical data				
Insertion force	45 N ±10 N			
Withdrawal force	250 N ±50 N			
Environmental and real-life conditions				
Environmental and real-life conditions				
Environmental and real-life conditions Ambient conditions				
	IP66 / IP68 (2 m / 24 h)			
Ambient conditions	IP66 / IP68 (2 m / 24 h) IP66 / IP68 (2 m / 24 h)			
Ambient conditions Degree of protection (when plugged in)				
Ambient conditions Degree of protection (when plugged in) Degree of protection	IP66 / IP68 (2 m / 24 h)			
Ambient conditions Degree of protection (when plugged in) Degree of protection Ambient temperature (operation) Ambient temperature (assembly)	IP66 / IP68 (2 m / 24 h) -40 °C 85 °C			
Ambient conditions Degree of protection (when plugged in) Degree of protection Ambient temperature (operation)	IP66 / IP68 (2 m / 24 h) -40 °C 85 °C			

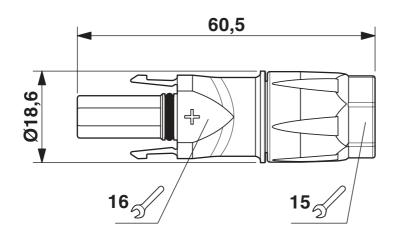


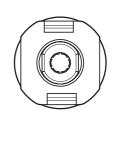
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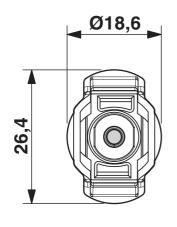
Drawings

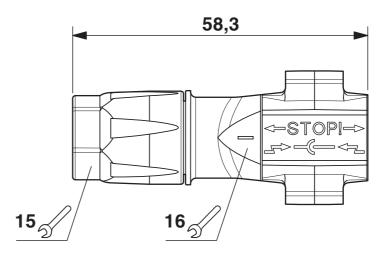
Dimensional drawing





Dimensional drawing







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Classifications

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		7.7

	ECLASS-11.0	27440109	
ETIM			
	ETIM 8.0	EC003569	
UNSPSC			
	UNSPSC 21.0	39121400	



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Environmental product compliance

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



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Accessories

PV-C PROTECTION CAP - Protective cap

1785430

https://www.phoenixcontact.com/pc/products/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



SZF 1-0,6X3,5 - Screwdriver

1204517

https://www.phoenixcontact.com/pc/products/1204517



Actuation tool, for ST terminal blocks, also suitable for use as a bladed screwdriver, size: $0.6 \times 3.5 \times 100$ mm, 2-component grip, with non-slip grip



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QUICK WIREFOX 6 SC - Stripping pliers

1207637

https://www.phoenixcontact.com/pc/products/1207637



Stripping tool for short-circuit proof conductors, stripping range: 1.5 up to 6 mm 2 , wire cutting up to 6 mm 2 cable stopper up to 18 mm 2

WIREFOX-D SR 6-1 - Stripping tool

1212511

https://www.phoenixcontact.com/pc/products/1212511



Stripping tool, for standard 2.5, 4, and 6 mm^2 solar cables, with 15 mm length stop, for SUNCLIX field connectors



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PV-C PLUG - Filler plugs

1775631

https://www.phoenixcontact.com/pc/products/1775631



Photovoltaic connector, Range of articles: Sunclix, Filler plugs, color: black

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