

1706821

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Connector, Range of articles: SUNCLIX, 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



Commercial data

Item number	1706821
Packing unit	1 pc
Minimum order quantity	10 pc
Product key	ABLBBS
GTIN	4046356883436
Weight per piece (including packing)	38.3 g
Weight per piece (excluding packing)	38.3 g
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.
roduct properties	
Product type	Connector set
Product family	SUNCLIX
Insulation characteristics	
Protection class	II .
Degree of pollution	2
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)	12.8 kV
Rated surge voltage (III/3)	12 kV
Rated current (2.5 mm²)	27 A
Rated current (4.0 mm²)	35 A
Rated current (6.0 mm²)	40 A
Contact resistance	$0.45~\text{m}\Omega$
onnection data	
Connection method	Spring-cage
Tightening torque	2 Nm ±0.1 Nm
mensions	
Dimensional drawing	018,6 58,3
Width	19 mm
Height	26.4 mm
Length	99.2 mm
aterial specifications	
Color	black
Color of the housing part	black
Flammability rating according to UL 94	V0
Insulating material group	I / CTI 600
Seal material	EPDM
Insulating material	mPPE
Contact surface	Silver Ag
Housing material	PPE



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Cable seal material	EPDM
Contact material	Cu
Contact surface material	Ag
Contact carrier material	PPE
O-ring material	EPDM
Material for screw connection	PPE

Cable/line

Cable type	PV1-F cables
External cable diameter	5.5 mm 8 mm
Single wire, cross section	2.5 mm² 6 mm²
Cable pull-out force	> 330 N

Mechanical properties

Mechanical data

Insertion force	45 N ±10 N
Withdrawal force	250 N ±50 N

Environmental and real-life conditions

Ambient conditions

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

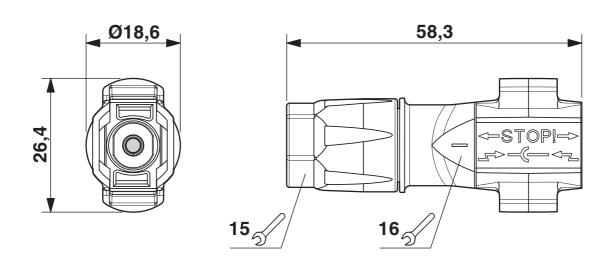


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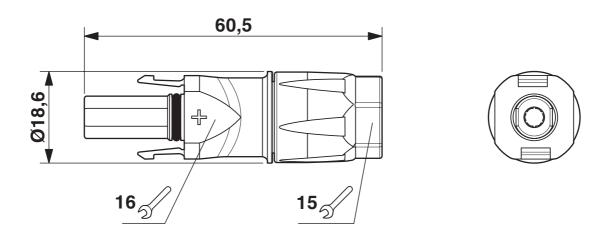
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Drawings

Dimensional drawing



Dimensional drawing





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Classifications

ECLASS

	ECLASS-13.0	27440107
	ECLASS-15.0	27440107
ETIM		
	ETIM 8.0	EC003569
U	NSPSC	
	UNSPSC 21.0	39121400

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Environmental product compliance

EU RoHS

Fulfills EU RoHS substance requirements	Yes, No exemptions
China RoHS	
Environment friendly use period (EFUP)	EFUP-E
	No hazardous substances above the limits
EU REACH SVHC	
REACH candidate substance (CAS No.)	No substance above 0.1 wt%

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