

https://www.phoenixcontact.com/pc/products/1155595



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Connector, Range of articles: BPC, color: black, number of positions: 1, min. conductor cross section: 50 mm², max. conductor cross section: 70 mm², rated voltage: 1500, rated current: 250 A, Connection method: Crimp, Contact connection type: Socket, min. cable diameter: 11.3 mm, max. cable diameter: 17 mm

### Your advantages

- · Patented design, with 3 proofs and one rotation
- · Safety lock
- · 360° free rotation and flexible wiring
- · Foolproof mechanism installed
- · Touch-proof
- · Mismatching and short circuit proof

### Commercial data

Item number	1155595
Packing unit	15 pc
Minimum order quantity	1 pc
Product key	ABLDBA
GTIN	4063151156985
Weight per piece (including packing)	97 g
Weight per piece (excluding packing)	97 g
Customs tariff number	85359000
Country of origin	CN

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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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	<ul> <li>Observe the minimum bending radius of the cable. Lay the cable without twisting it.</li> </ul>
oduct properties	
Product type	Connectors for energy storage
Product family	BPC
Number of positions	1
Insulation characteristics	
Degree of pollution	2
ectrical properties	
Rated voltage (III/2)	1500 V DC
Nominal voltage ATD	1500 (III/2.00)
	1000 (III/2.00) AC
Rated current	250 A (with 70 mm² conductor cross-section, in accordance wit IEC 61984)
	200 A (with 50 mm² conductor cross-section, in accordance wit IEC 61984)
	250 A (with AWG 2/0, in accordance with UL 4128)
Contact resistance	≤ 0.5 mΩ
Insulation resistance	1000 ΜΩ
Nominal voltage U <sub>N</sub>	1500 V
onnection data	
Connection method	Crimp
Tightening torque	2 2.5 Nm
aterial specifications	
Color	black
Material	Polyamide (Housing)
	Copper (Contact)
	Silicon (Seal)
Flammability rating according to UL 94	V0
Seal material	Silicon
Insulating material	PA
Contact material	Cu
able/line	
External cable diameter	11.3 mm 17 mm
Single wire, cross section	50 mm² 70 mm²
Stripping length of the individual wire	20 mm ±1 mm
echanical properties	
Mechanical data	
Insertion/withdrawal cycles	100



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Insertion force	≤ 75 N
Withdrawal force	≥ 10 N
nvironmental and real-life conditions	
Ambient conditions	
Degree of protection (when plugged in)	IP65 (Mating socket)
	IP65 (Mating socket)
Degree of protection (not plugged in)	IP20
Degree of protection	IP65/IP67
Ambient temperature (operation)	-40 °C 80 °C
Ambient temperature (storage/transport)	-40 °C 80 °C
Altitude	4000 m
andards and regulations	
Standards/specifications	IEC 61984:2008
	EN 61984:2008
	UL 4128
	PPP 51090A
punting	
Assembly note	We recommend to use the crimping dies and other crimping

devices of Jiangsu Bozhiwang Automation Equipment Co., Ltd. for cable crimp connection; Address: No. 39 Kun Lun Road, Xin Bei District, Changzhou, Jiangsu Province, China, Email: bwgm2@wire-processor.com, die model: BZW-6F



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## **Approvals**

To download certificates, visit the product detail page: https://www.phoenixcontact.com/pc/products/1155595

•	TÜV SÜD Type tested Approval ID: 704071905102-03				
		Nominal voltage U <sub>N</sub>	Nominal current I <sub>N</sub>	Cross section AWG	Cross section mm <sup>2</sup>
		1500 V	250 A	-	50 - 70

<b>7/</b>	UL Recognized Approval ID: E511681-20200609				
		Nominal voltage $U_N$	Nominal current I <sub>N</sub>	Cross section AWG	Cross section mm <sup>2</sup>
		1500 V	250 A	1/0 - 2/0	-



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## Classifications

### **ECLASS**

	ECLASS-11.0	27440390			
	ECLASS-12.0	27440390			
	ECLASS-13.0	27440312			
ΕI	ETIM				
	ETIM 9.0	EC002641			
UNSPSC					
	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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