1155595

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



Please be informed that the data shown in this PDF document is generated from our online catalog. Please find the complete data in the user documentation. Our general terms of use for downloads are valid.



Connector, Range of articles: BPC, color: black, number of positions: 1, min. conductor cross section: 50 mm<sup>2</sup>, max. conductor cross section: 70 mm<sup>2</sup>, 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 "three 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 рс
Minimum order quantity	15 pc
Sales key	AB04
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

1155595

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



# Technical data

### Notes

The products must be regularly inspected for damage.
Decommission defective products immediately. Replace damaged products. Repairs are not possible.
<ul> <li>WARNING: Only electrically qualified personnel may instal operate the product. They must observe the following safety notes. The qualified personnel must be familiar with the bas electrical engineering. They must be able to recognize and prevent danger. The relevant symbol on the packaging indic that only personnel familiar with electrical engineering are allowed to install and operate the product.</li> </ul>
WARNING: The connectors may not be plugged in or disconnected under load. Ignoring the warning or improper may damage persons and/or property.
<ul> <li>The products are suitable for applications in plant, controll and electrical device engineering.</li> </ul>
<ul> <li>Assembled products may not be manipulated or improperly opened.</li> </ul>
<ul> <li>Only use mating connectors that are specified in the techn data of the standards listed (e.g. the ones listed in the produ accessories online at phoenixcontact.com/products).</li> </ul>
<ul> <li>When using the product in direct connection with third-part manufacturers, the user is responsible.</li> </ul>
• For operating voltages > 50 V AC, conductive connector housings must be grounded
<ul> <li>Ensure that the protective or functional ground has been properly connected.</li> </ul>
<ul> <li>Observe the corresponding technical data. You will find information:</li> <li>o On the product</li> <li>o On the packing label</li> <li>o In the supplied documentation</li> <li>o Online at phoenixcontact.com/products under the product</li> </ul>
<ul> <li>The installation notes/Design In documents online on the download page at phoenixcontact.com/products must be observed for this product.</li> </ul>
<ul> <li>Use a protective cap to protect connectors that are not in u The suitable accessories are available online in the accessor section of the product at phoenixcontact.com/products</li> </ul>
• The connector warms up in normal operation. Depending a ambient conditions, the surface of the connector can continu warm up. In this case, the user is responsible for posting warnings (e.g. DIN EN ISO 13732-1:2008-12).
<ul> <li>Operate the connector only when it is fully plugged in and interlocked.</li> </ul>
• Ensure that when laying the cable, the tensile load on the connectors does not exceed the upper limit specified in the standards.

#### 1155595

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



• Observe the minimum bending radius of the cable. Lay the cable without twisting it.

### Product properties

Product family BPC	je
Number of positions 1	

2

Insulation characteristics

Degree of pollution

### **Electrical properties**

Rated voltage (III/2)	1500 V DC
Nominal voltage ATD	1500 (III/2.00)
Rated current	250 A (with 70 mm <sup>2</sup> conductor cross-section, in accordance with IEC 61984)
	200 A (with 50 mm <sup>2</sup> conductor cross-section, in accordance with 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

## Connection data

Connection method	Crimp
Tightening torque	2 2.5 Nm

### Material specifications

Color	black
Material	Polyamide
	Copper
	Silicon
Flammability rating according to UL 94	VO
Seal material	Silicon
Insulating material	PA
Contact material	Cu/Cu alloy

#### Cable/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

### Mechanical properties

Mechanical data	
Insertion/withdrawal cycles	100
Insertion force	≤ 75 N

#### 1155595

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

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
Ambient temperature (operation)	-40 °C 80 °C
Ambient temperature (storage/transport)	-40 °C 80 °C
Altitude	4000 m
tandards and regulations	
Standards/specifications	IEC 61984:2008

# EN 61984:2008 UL 4128 PPP 51090A

## Mounting

Assembly instructions

We recommend using the crimping dies and other crimping devices of Jiangsu Bozhiwang Automation Equipment Co., Ltd. for cable crimp connections; address: No. 39 Kun Lun Road, Xin Bei District, Changzhou, Jiangsu Province, China, email: flacz2020@163.com, die model: BZW-6F



1155595

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



# Classifications

### ECLASS

ECLASS-11.0	27440390
ECLASS-12.0	27440390
ECLASS-13.0	27440390

## UNSPSC

UNSPSC 21.0	39121400



1155595

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



# Environmental product compliance

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

Phoenix Contact 2024 © - all rights reserved https://www.phoenixcontact.com

Phoenix Contact USA 586 Fulling Mill Road Middletown, PA 17057, United States (+717) 944-1300 info@phoenixcon.com