

BPC 250 C 50 BK - Connector



1571170

<https://www.phoenixcontact.com/us/products/1571170>

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Connector, Range of articles: BPC 250, color: black, number of positions: 1, max. conductor cross-section: 50 mm², rated voltage: 1500 V DC, rated current: 200 A, Connection method: Crimp, min. cable diameter: 9.7 mm, max. cable diameter: 17.8 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	1571170
Packing unit	20 pc
Minimum order quantity	60 pc
Sales key	AB04
Product key	ABLDBA
GTIN	4067923059214
Weight per piece (including packing)	84.35 g
Weight per piece (excluding packing)	84.35 g
Customs tariff number	85359000
Country of origin	CN

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](https://www.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](https://www.phoenixcontact.com/products) under the product
- The installation notes/Design In documents online on the download page at [phoenixcontact.com/products](https://www.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](https://www.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.

Product properties

Product type	Connectors for energy storage
Product family	BPC 250
Number of positions	1

Insulation characteristics

Degree of pollution	2
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Electrical properties

Rated voltage (III/2)	1500 V DC
Nominal voltage ATD	1500 V DC (III/2.00)
	1000 V AC (III/2.00)
Rated current	200 A (with 50 mm ² conductor cross-section, in accordance with IEC 61984)
	200 A (With AWG 1/0, in accordance with UL 4128)
Contact resistance	≤ 0.5 mΩ
Insulation resistance	1000 MΩ
Nominal voltage U _N	1500 V

Connection data

Connection method	Crimp
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Material specifications

Color	black
Material	Polyamide (Housing)
	Rubber (Seal)
Flammability rating according to UL 94	V0
Seal material	Rubber
Insulating material	PA
Contact material	Copper alloy
Contact surface material	Ni/Ag, Sn

Cable/line

External cable diameter	9.7 mm ... 17.8 mm
Single wire, cross section	50 mm ²
Stripping length of the individual wire	20 mm ±1 mm
Halogen-free	yes

Mechanical properties

Mechanical data

Insertion/withdrawal cycles	100
Insertion force	≤ 75 N

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Withdrawal force	$\geq 10 \text{ N}$
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Environmental and real-life conditions

Ambient conditions

Degree of protection	IP65/IP67 (Mating socket)
Ambient temperature (operation)	-40 °C ... 125 °C (incl. temperature increase)
Ambient temperature (storage/transport)	-40 °C ... 80 °C
Altitude	4000 m

Standards and regulations

Standards/specifications	UL 4128
	TÜV (PPP 51090B)

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Approvals

To download certificates, visit the product detail page: <https://www.phoenixcontact.com/us/products/1571170>

	TÜV SÜD Type tested			
	Approval ID: 704072474902-01			
	Nominal voltage U _N	Nominal current I _N	Cross section AWG	Cross section mm ²
keine				
	1500 V	200 A	-	- 50

	UL Recognized			
	Approval ID: E511681 V1S3			
	Nominal voltage U _N	Nominal current I _N	Cross section AWG	Cross section mm ²
keine				
	1500 V	200 A	- 1/0	-

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Classifications

ECLASS

ECLASS-13.0	27440209
ECLASS-15.0	27440209

ETIM

ETIM 9.0	EC002641
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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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