

# ES-BBC-5-1 BK - Connector



1155597

<https://www.phoenixcontact.com/us/products/1155597>

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: BBC, design: Connector, housing material: PA 6.6, color: black, number of positions: 1, rated voltage: 1500 V DC, rated current: 40 A, Connection method: Spring-cage connection

## Your advantages

- Quick installation: direct contacting of battery modules on the busbar in the rack
- Safe installation: touch-protected battery terminals even when not plugged in
- Diverse areas of application: modular design allows different currents
- Slide-in system with integrated interface: no wiring effort during installation

## Commercial data

Item number	1155597
Packing unit	12 pc
Minimum order quantity	12 pc
Sales key	AB04
Product key	ABLDAD
GTIN	4063151157500
Weight per piece (including packing)	55.43 g
Weight per piece (excluding packing)	55.55 g
Customs tariff number	85359000
Country of origin	DE

## Technical data

### Notes

#### Safety note

Safety note	<ul style="list-style-type: none"> <li>• <b>WARNING:</b> Commission properly functioning products only. The products must be regularly inspected for damage. Decommission defective products immediately. Replace damaged products. Repairs are not possible.</li> </ul>
	<ul style="list-style-type: none"> <li>• <b>WARNING:</b> 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.</li> </ul>
	<p><b>WARNING:</b> The connectors may not be plugged in or disconnected under load. Ignoring the warning or improper use may damage persons and/or property.</p>
	<ul style="list-style-type: none"> <li>• Assembled products may not be manipulated or improperly opened.</li> </ul>
	<ul style="list-style-type: none"> <li>• Observe the corresponding technical data. You will find information:                             <ul style="list-style-type: none"> <li>o On the product</li> <li>o On the packing label</li> <li>o In the supplied documentation</li> <li>o Online at <a href="https://www.phoenixcontact.com/products">phoenixcontact.com/products</a> under the product</li> </ul> </li> </ul>
	<ul style="list-style-type: none"> <li>• The installation notes/Design In documents online on the download page at <a href="https://www.phoenixcontact.com/products">phoenixcontact.com/products</a> must be observed for this product.</li> </ul>
	<ul style="list-style-type: none"> <li>• Operate the connector only when it is fully plugged in.</li> <li>• 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).</li> </ul>

### Product properties

Product type	Connectors for energy storage
Product family	BBC
Type	Connector
Number of positions	1
Number of slots	1

#### Insulation characteristics

Degree of pollution	3
---------------------	---

### Electrical properties

Rated voltage (III/3)	1500 V
Nominal voltage ATD	1500 V DC
Rated surge voltage	12 kV
Rated surge voltage (III/3)	12 kV

# ES-BBC-5-1 BK - Connector



1155597

<https://www.phoenixcontact.com/us/products/1155597>

Rated current	40 A
Insulation resistance	≥ 5 MΩ

## Connection data

Connection method	Spring-cage connection
-------------------	------------------------

## Dimensions

Width	41 mm
Height	18.9 mm
Length	118 mm

## Material specifications

Color	black
Color of the housing part	black
Material	Polyamide Copper
Flammability rating according to UL 94	V0
Insulating material group	I
Housing material	PA 6.6
Contact material	Cu
Contact surface material	Ni/Sn
Contact carrier material	PA 6.6

## Cable/line

Halogen-free	yes
--------------	-----

## Mechanical properties

### Mechanical data

Insertion/withdrawal cycles	≥ 25
Insertion force	≤ 30 N

## Environmental and real-life conditions

### Ambient conditions

Degree of protection	IP20 (Not plugged in)
Ambient temperature (operation)	-10 °C ... 50 °C
Altitude	≤ 2000 m

## Mounting

Assembly instructions	Use busbars that are 4 mm thick with rounded edges in accordance with DIN EN 13601. The busbars must be coated (tin-plated, thickness: 8 µm ... 30 µm).
-----------------------	---

# ES-BBC-5-1 BK - Connector



1155597

<https://www.phoenixcontact.com/us/products/1155597>

## Classifications

### ECLASS

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

### UNSPSC

UNSPSC 21.0	39121400
-------------	----------

# ES-BBC-5-1 BK - Connector



1155597

<https://www.phoenixcontact.com/us/products/1155597>

## 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%
-------------------------------------	----------------------------

# ES-BBC-5-1 BK - Connector

1155597

<https://www.phoenixcontact.com/us/products/1155597>



## Accessories

### ES-BBC-MF1 - Panel mounting frames

1155603

<https://www.phoenixcontact.com/us/products/1155603>



Panel mounting frames, Range of articles: BBC, design: Panel mounting frame, housing material: PA-GF, color: black

---

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](mailto:info@phoenixcon.com)