# Connector - ES-BBC-5-2 BK

1155598

https://www.phoenixcontact.com/pc/products/1155598

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Connectors for energy storage, Range of articles: BBC, Connector, type: Connector, housing material: PA 6.6, color: black, number of positions: 1, rated voltage: 1500 V DC, rated current: 80 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 | 1155598 |
| Packing unit | 8 pc |
| Minimum order quantity | 8 pc |
| Product Key | ABLDAD |
| GTIN | 4063151155278 |
| Weight per Piece (including packing) | 95.71 g |
| Weight per Piece (excluding packing) | 22.22 g |
| Customs tariff number | 85366990 |
| Country of origin | DE |

# 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. |
| | • Assembled products may not be manipulated or improperly opened. |
| | • Observe the corresponding technical data. You will find information:<br>o On the product<br>o On the packing label<br>o In the supplied documentation<br>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. |
| | • Operate the connector only when it is fully plugged in. |
| | • 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). |

## Product properties

| | |
|---|---|
| Type | Connector |
| Product type | Connectors for energy storage |
| Number of positions | 1 |
| Number of slots | 1.00 |

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 |
| Rated current | 80 A |

| | |
|---|---|
| Insulation resistance | ≥ 5 MΩ |

## Dimensions

| | |
|---|---|
| Width | 41 mm |
| Height | 31.4 mm |
| Length | 118 mm |

## Material specifications

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

## Connector

| | |
|---|---|
| Insertion/withdrawal cycles | ≥ 25 |

## Cable / line

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

## Mechanical properties

Mechanical data

| | |
|---|---|
| Insertion force | ≤ 120 N |

## Environmental and real-life conditions

Ambient conditions

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

## Classifications

### ECLASS

| | |
|---|---|
| ECLASS-11.0 | 27440390 |

### ETIM

| | |
|---|---|
| ETIM 8.0 | EC001121 |

### UNSPSC

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

## Accessories

### Panel mounting frames

Panel mounting frames - ES-BBC-MF2 - 1155604

https://www.phoenixcontact.com/pc/products/1155604



Connectors for energy storage, Range of articles: BBC, Panel mounting frames, type: Panel mounting frame, housing material: PA-GF, color: black


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