

# CBC-PRC 3-FC-FS6 8-21 HR 800V - Coupler connector



1441143

<https://www.phoenixcontact.com/us/products/1441143>

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.



Coupler connector, Range of articles: ArcZero, color: black, number of positions: 3, min. conductor cross-section: 1.5 mm<sup>2</sup>, max. conductor cross-section: 6 mm<sup>2</sup>, rated voltage: 800 VDC, rated current: 20 A, Connection method: Screw connection, min. cable diameter: 8 mm, max. cable diameter: 21 mm, Maximum load when disconnecting: 16 kW, scope: DC grid

## Your advantages

- Safe connection and disconnection under load
- Fast disconnection of flying leads
- Time-saving maintenance or replacement of connected devices
- Robust outdoor design even for extreme conditions
- Particularly durable and economical

## Commercial data

|                                      |               |
|--------------------------------------|---------------|
| Item number                          | 1441143       |
| Packing unit                         | 1 pc          |
| Minimum order quantity               | 1 pc          |
| Sales key                            | AB03          |
| Product key                          | ABLFBA        |
| GTIN                                 | 4063151821975 |
| Weight per piece (including packing) | 147.2 g       |
| Weight per piece (excluding packing) | 120.1 g       |
| Customs tariff number                | 85366990      |
| Country of origin                    | DE            |

# CBC-PRC 3-FC-FS6 8-21 HR 800V - Coupler connector



1441143

<https://www.phoenixcontact.com/us/products/1441143>

## Technical data

### Notes

|                     |   |
|---------------------|---|
| Note on application | Maximum load when disconnecting: 16 kW (6,7 $\mu$ F/5 mH)                     |
| Note on application | Maximum load when connecting: 2 kW (6,7 $\mu$ F/5 mH)                         |
| Note on application | Observe the specifications of the packing slip.                               |
| Notes on safety     | Fit the protective cap when not plugged in.                                   |
| Order information:  | The release lever for manual release can be found in the accessories section. |

### Product properties

|                     |                        |
|---------------------|------------------------|
| Product type        | Installation connector |
| Product family      | ArcZero                |
| Area of application | DC grid                |
| Number of positions | 3                      |

### Insulation characteristics

|                  |                      |
|------------------|----------------------|
| Protection class | II (plastic housing) |
|------------------|----------------------|

### Electrical properties

|               |  |
|---------------|--|
| Rated voltage | 800 VDC (III/2.00) in accordance with IEC 61984                                      |
|               | 250 VDC Minimum system voltage   |
|               | 500 VDC (III/2.00) in accordance with IEC 61535                                      |
|               | 600 VDC (III/2.00) in accordance with UL 2238 / UL 2237                              |
| Rated current | 20 A (With 2.5 mm <sup>2</sup> conductor cross-section in accordance with IEC 61984) |

### Dimensions

|        |         |
|--------|---------|
| Width  | 37.6 mm |
| Height | 39 mm   |
| Length | 159 mm  |

### Material specifications

|                  |                  |
|------------------|------------------|
| Color (Housing)  | black (RAL 9005) |
| Material Housing | PPE              |

### Cable/line

|   |   |
|---|---|
| External cable diameter                 | 8 mm ... 21 mm  |
| Single wire, cross section              | 1.5 mm <sup>2</sup> 6 mm <sup>2</sup>                   |
| Stripping length of the individual wire | 13 mm (Lay PE conductor 10 mm leading)                  |
| Halogen-free                            | yes (in accordance with IEC 61249-2-21:2003- 11 Cl.3.1) |

### Mechanical properties

#### Mechanical data

|                             |                        |
|-----------------------------|------------------------|
| Insertion/withdrawal cycles | 500 (under rated load) |
|-----------------------------|------------------------|

# CBC-PRC 3-FC-FS6 8-21 HR 800V - Coupler connector



1441143

<https://www.phoenixcontact.com/us/products/1441143>

## Environmental and real-life conditions

### Ambient conditions

|   |                                      |
|---|--------------------------------------|
| Degree of protection                    | IP66                                 |
|   | IP68 (2 m / 2 h)                     |
|   | IP69                                 |
| Ambient temperature (operation)         | -40 °C ... 105 °C (observe derating) |
| Ambient temperature (storage/transport) | -40 °C ... 105 °C                    |
| Ambient temperature (assembly)          | -20 °C ... 60 °C                     |

## Standards and regulations

|                          |                |
|--------------------------|----------------|
| Standards/specifications | IEC 61984      |
|                          | IEC TS 62735-1 |

# CBC-PRC 3-FC-FS6 8-21 HR 800V - Coupler connector

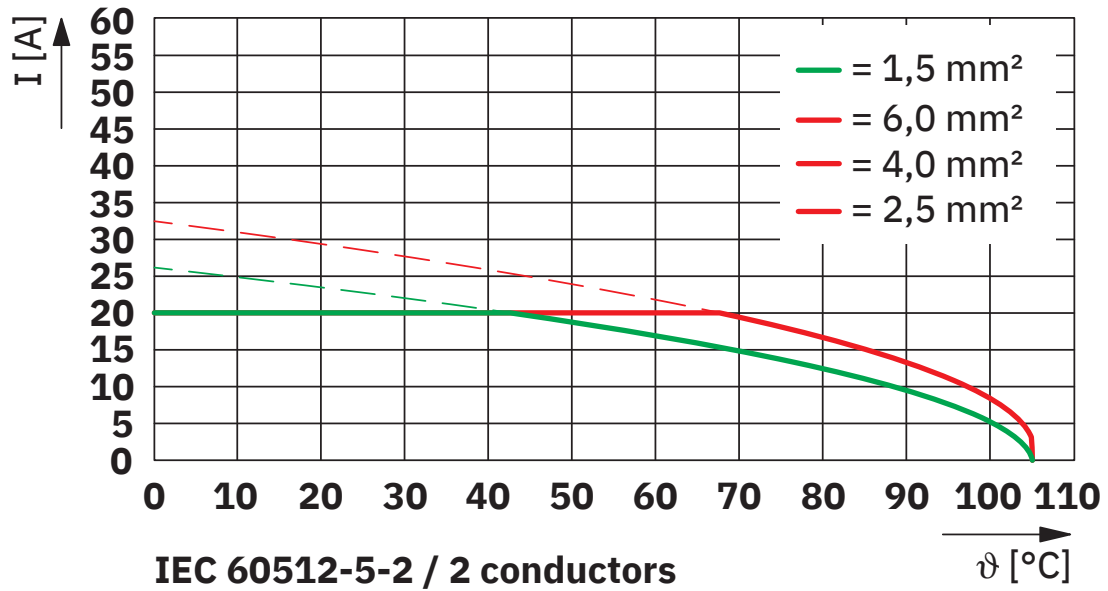


1441143

<https://www.phoenixcontact.com/us/products/1441143>

## Drawings

Diagram



Derating

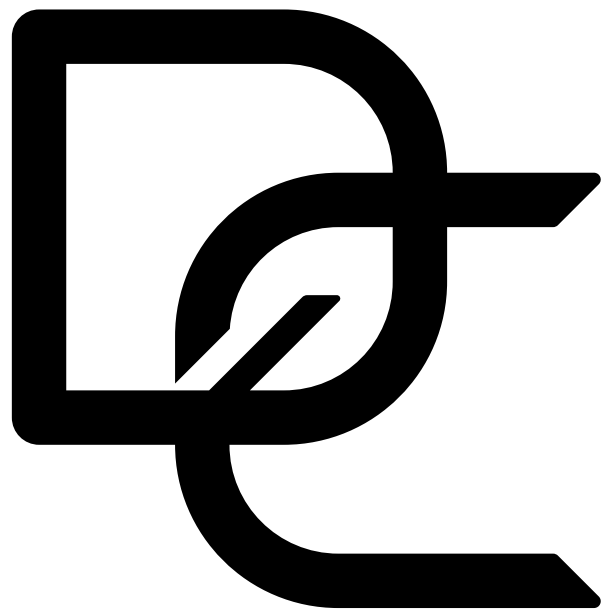
CBC-PRC 3-FC-FS6 8-21 HR 800V - Coupler  
connector



1441143

<https://www.phoenixcontact.com/us/products/1441143>

Graphic



**POWER**

# CBC-PRC 3-FC-FS6 8-21 HR 800V - Coupler connector




1441143

<https://www.phoenixcontact.com/us/products/1441143>

## Approvals

To download certificates, visit the product detail page: <https://www.phoenixcontact.com/us/products/1441143>

|  <b>VDE Zeichengenehmigung</b><br>Approval ID: 304284-TL3-1 |                       |                       |                   |                      |
|--|-----------------------|-----------------------|-------------------|----------------------|
|  | Nominal voltage $U_N$ | Nominal current $I_N$ | Cross section AWG | Cross section $mm^2$ |
| keine  |                       |                       |                   |                      |
|  | 800 V                 | 20 A                  | -                 | 1.5 - 6              |

# CBC-PRC 3-FC-FS6 8-21 HR 800V - Coupler connector



1441143

<https://www.phoenixcontact.com/us/products/1441143>

## Classifications

### ECLASS

|             |          |
|-------------|----------|
| ECLASS-13.0 | 27440605 |
| ECLASS-15.0 | 27440605 |

### ETIM

|           |          |
|-----------|----------|
| ETIM 10.0 | EC002560 |
|-----------|----------|

### UNSPSC

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

# CBC-PRC 3-FC-FS6 8-21 HR 800V - Coupler connector



1441143

<https://www.phoenixcontact.com/us/products/1441143>

## Environmental product compliance

### EU RoHS

|   |              |
|---|--------------|
| Fulfills EU RoHS substance requirements | Yes          |
| Exemption                               | 7(a), 7(c)-I |

### China RoHS

|  |   |
|--|---|
| Environment friendly use period (EFUP) | EFUP-50   |
|  | An article-related China RoHS declaration table can be found in the download area for the respective article under "Manufacturer declaration". For all articles with EFUP-E, no China RoHS declaration table issued and required. |

### EU REACH SVHC

|                                     |                                      |
|-------------------------------------|--------------------------------------|
| REACH candidate substance (CAS No.) | Lead(CAS: 7439-92-1)                 |
|                                     | Triphenyl phosphate(CAS: 115-86-6)   |
| SCIP                                | a506d761-ba8f-4434-9e18-5fc48e3f55a6 |

### EF3.1 Climate Change

|         |               |
|---------|---------------|
| CO2e kg | 5.388 kg CO2e |
|---------|---------------|

Phoenix Contact 2026 © - 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)