

# CBC-PRC 3-FC-MS6 8-21 800V - Connector



1453450

<https://www.phoenixcontact.com/gb/products/1453450>

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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, Contact connection type: Pin, min. cable diameter: 8 mm, max. cable diameter: 21 mm, Maximum load when disconnecting: 16 kW, scope: DC-Grids

## 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	1453450
Packing unit	1 pc
Minimum order quantity	1 pc
Sales key	ABLFBA
Product key	ABLFBA
GTIN	4063151841805
Weight per piece (including packing)	128 g
Weight per piece (excluding packing)	104.23 g
Customs tariff number	85366990
Country of origin	DE

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## 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.

### Product properties

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

### Insulation characteristics

Protection class	II (plastic housing)
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### Electrical properties

Nominal voltage ATD	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	37.6 mm
Length	129 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)
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## Environmental and real-life conditions

### Ambient conditions

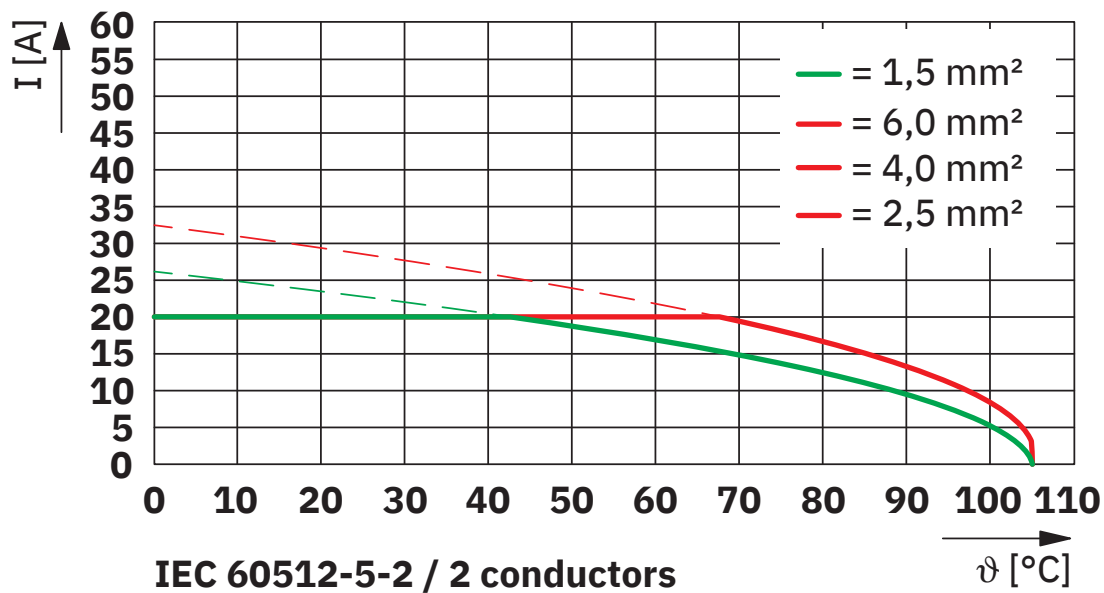
Degree of protection	IP66
	IP68 (2 m / 2 h)
	IP69
Ambient temperature (operation)	-40 °C ... 105 °C (observe derating)
Ambient temperature (storage/transport)	-40 °C ... 105 °C
Ambient temperature (assembly)	-20 °C ... 60 °C

## Standards and regulations

Standards/specifications	IEC 61984
	IEC TS 62735-1

## Drawings

Diagram



Derating

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## Approvals

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	<b>VDE approval of drawings</b>			
	Approval ID: 304284-TL3-1			
	Nominal voltage $U_N$	Nominal current $I_N$	Cross section AWG	Cross section $\text{mm}^2$
	80 V	20 A	-	1.5 - 6

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## Classifications

### ECLASS

ECLASS-13.0	27440605
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### ETIM

ETIM 9.0	EC002560
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## Environmental product compliance

### EU RoHS

Fulfills EU RoHS substance requirements	Yes, No exemptions
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### 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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