

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



1441143

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

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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, Contact connection type: Socket, 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	1441143
Packing unit	1 pc
Minimum order quantity	1 pc
Sales key	ABLFBA
Product key	ABLFBA
GTIN	4063151821975
Weight per piece (including packing)	146.2 g
Weight per piece (excluding packing)	22.22 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.
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-Grids
Number of positions	3

### Data management status

Article revision	03
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### 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	39 mm
Length	159 mm

### Material specifications

Color	black
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### 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

### Mechanical properties

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## 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
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

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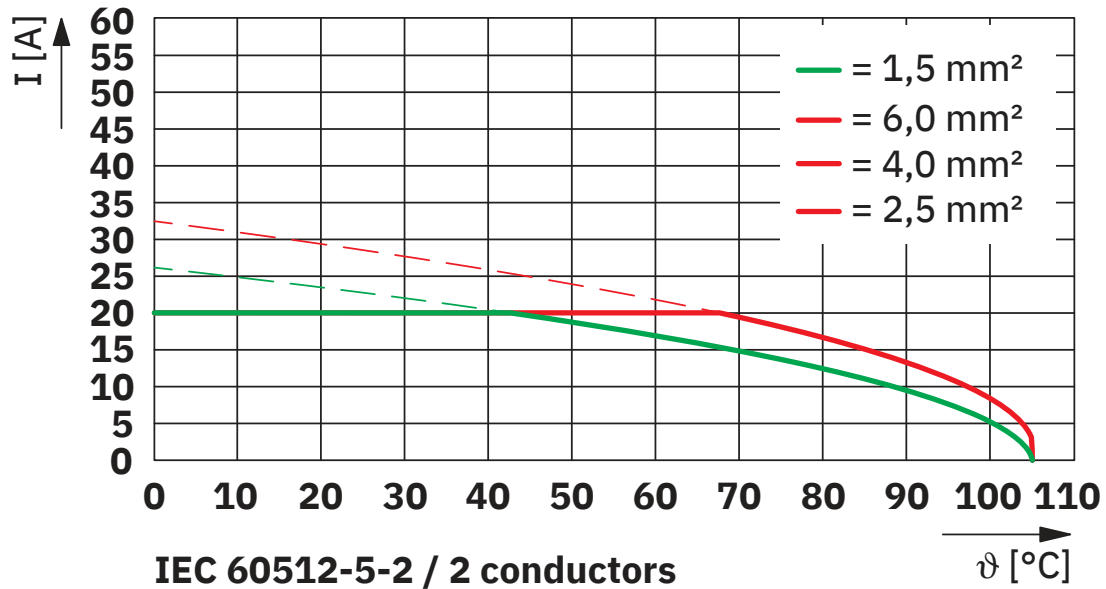


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## Drawings

Diagram



Derating

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## Classifications

### ECLASS

ECLASS-12.0	27440116
ECLASS-13.0	27440116

### ETIM

ETIM 9.0	EC002635
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## 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)
SCIP	a506d761-ba8f-4434-9e18-5fc48e3f55a6

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## Accessories

### PRC FC RELEASE LATCH GN - Color coding

1002290

<https://www.phoenixcontact.com/gb/products/1002290>



Color coding, Range of articles: PRC 35, housing material: PA 6.6-FR, If you are using the release latch, then the PRC approvals in accordance with IEC 61535 and 2PFG 1915 are not required

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### PRC FC RELEASE LATCH BU - Color coding

1002293

<https://www.phoenixcontact.com/gb/products/1002293>



Color coding, Range of articles: PRC 35, housing material: PA 6.6-FR, If you are using the release latch, then the PRC approvals in accordance with IEC 61535 and 2PFG 1915 are not required

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## PRC FC RELEASE LATCH GY - Color coding

1002292

<https://www.phoenixcontact.com/gb/products/1002292>



Color coding, Range of articles: PRC 35, housing material: PA 6.6-FR, If you are using the release latch, then the PRC approvals in accordance with IEC 61535 and 2PfG 1915 are not required

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## PRC FC RELEASE LATCH RD - Color coding

1125075

<https://www.phoenixcontact.com/gb/products/1125075>



Color coding, Range of articles: PRC 35, housing material: PA 6.6-FR, If you are using the release latch, then the PRC approvals in accordance with IEC 61535 and 2PfG 1915 are not required



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## PRC FC RELEASE LATCH YE - Color coding

1125073

<https://www.phoenixcontact.com/gb/products/1125073>



Color coding, Range of articles: PRC 35, housing material: PA 6.6-FR, If you are using the release latch, then the PRC approvals in accordance with IEC 61535 and 2PfG 1915 are not required

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