

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



1441143

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

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## 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

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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 grid
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	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)

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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

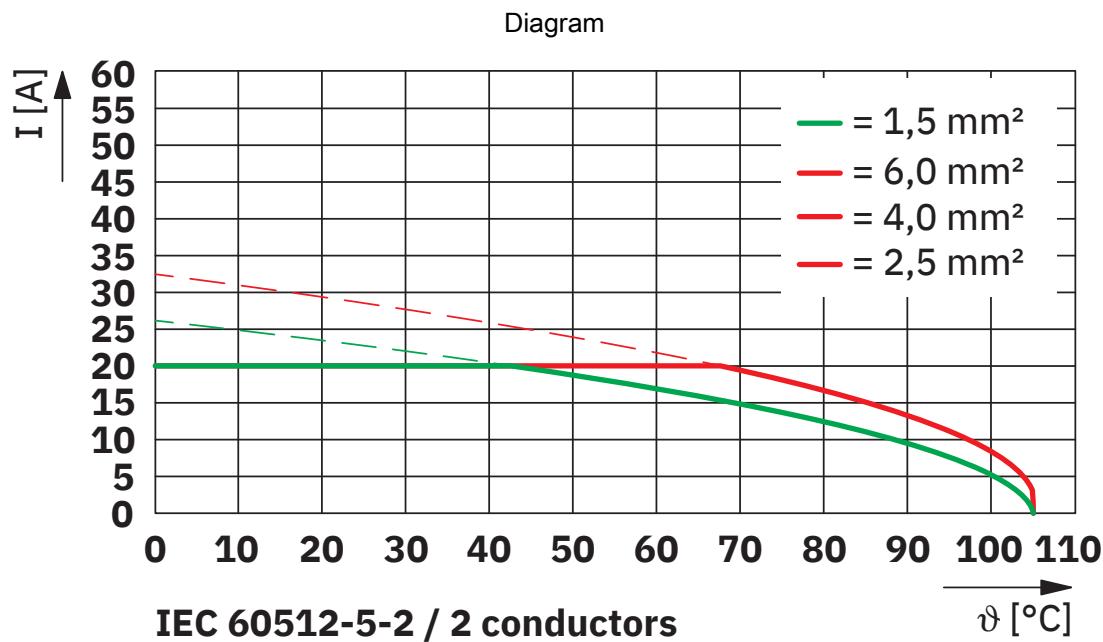
# CBC-PRC 3-FC-FS6 8-21 HR 800V - Coupler connector



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## Drawings



Derating

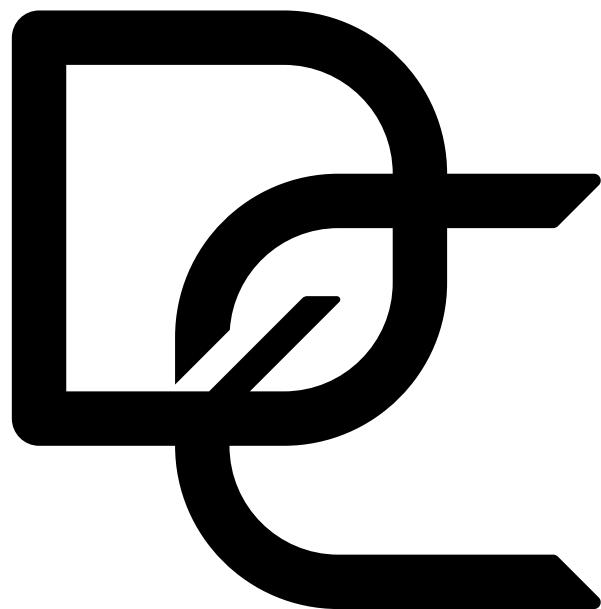
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Graphic



**POWER**

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## Approvals

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

VDE Zeichengenehmigung				
	Nominal voltage $U_N$	Nominal current $I_N$	Cross section AWG	Cross section $mm^2$
keine	800 V	20 A	-	1.5 - 6

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## Classifications

### ECLASS

ECLASS-13.0	27440605
ECLASS-15.0	27440605

### ETIM

ETIM 9.0	EC002560
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### UNSPSC

UNSPSC 21.0	39121400
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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)
	Triphenyl phosphate(CAS: 115-86-6)
SCIP	a506d761-ba8f-4434-9e18-5fc48e3f55a6

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Phoenix Contact USA  
586 Fulling Mill Road  
Middletown, PA 17057, United States  
(+717) 944-1300  
[info@phoenixcon.com](mailto:info@phoenixcon.com)