

# PRC 20/3-C3-FC-MS2,5 6-14 - Connector



1313320

<https://www.phoenixcontact.com/us/products/1313320>

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Connector, Range of articles: PRC 20, color: black, number of positions: 3, min. conductor cross-section: 0.5 mm<sup>2</sup>, max. conductor cross-section: 2.5 mm<sup>2</sup>, rated voltage: 400 V, rated current: 20 A, Connection method: Screw connection, min. cable diameter: 6 mm, max. cable diameter: 14 mm, Setting option for release: 1. with a tool or 2. by hand, scope: SIGNAL

## Your advantages

- More space on the device front with current transmission up to 20 A in a minimum amount of space
- Duo-Unlock technology for greater flexibility during installation and maintenance
- Reliable use under extreme ambient conditions with high degrees of protection and impact resistance
- Simple handling with proven crimp or screw connection technology
- Mechanical and color coding for quick and error-free startup

## Commercial data

Item number	1313320
Packing unit	1 pc
Minimum order quantity	1 pc
Sales key	AB03
Product key	ABLHBA
GTIN	4063151569310
Weight per piece (including packing)	55.8 g
Weight per piece (excluding packing)	44.105 g
Customs tariff number	85366990
Country of origin	PL

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## Technical data

### Notes

Order information:	Setting option for release: 1. with a tool or 2. by hand
Note on application	For assembly notes, please refer to the packing slip

### Product properties

Product type	Installation connector
Product family	PRC 20
Area of application	SIGNAL
Number of positions	3
Connection profile	3
Coding	3-C3

### Insulation characteristics

Protection class	II
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### Electrical properties

Rated voltage	400 V (III/2.00) in accordance with IEC 61984
	400 V AC (III/2.00) in accordance with IEC 61535
	600 V AC / DC (III/2.00) in accordance with UL 2238 / UL 2237
	500 V DC (III/2.00) in accordance with IEC 61535
Rated current	20 A (With 2.5 mm <sup>2</sup> conductor cross-section in accordance with IEC 61535)

### Dimensions

Width	28.5 mm
Height	28.5 mm
Length	82.1 mm

### Material specifications

Color (Housing)	black (RAL 9005)
Material Seal	EPDM (Cable seal)
	EPDM (Housing seal)
Material Housing	PPE
Material Contact carrier	PPE
Material Cable gland	PPE
Material Contact	CuZn (Contact material, Pb < 0.1)
Flammability rating according to UL 94	V0

### Cable/line

External cable diameter	6 mm ... 14 mm
Single wire, cross section	0.5 mm <sup>2</sup> 2.5 mm <sup>2</sup>
Stripping length of the individual wire	10 mm (Lay PE conductor 8 mm leading)
Halogen-free	yes

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## Mechanical properties

### Mechanical data

Insertion/withdrawal cycles	500
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## Environmental and real-life conditions

### Ambient conditions

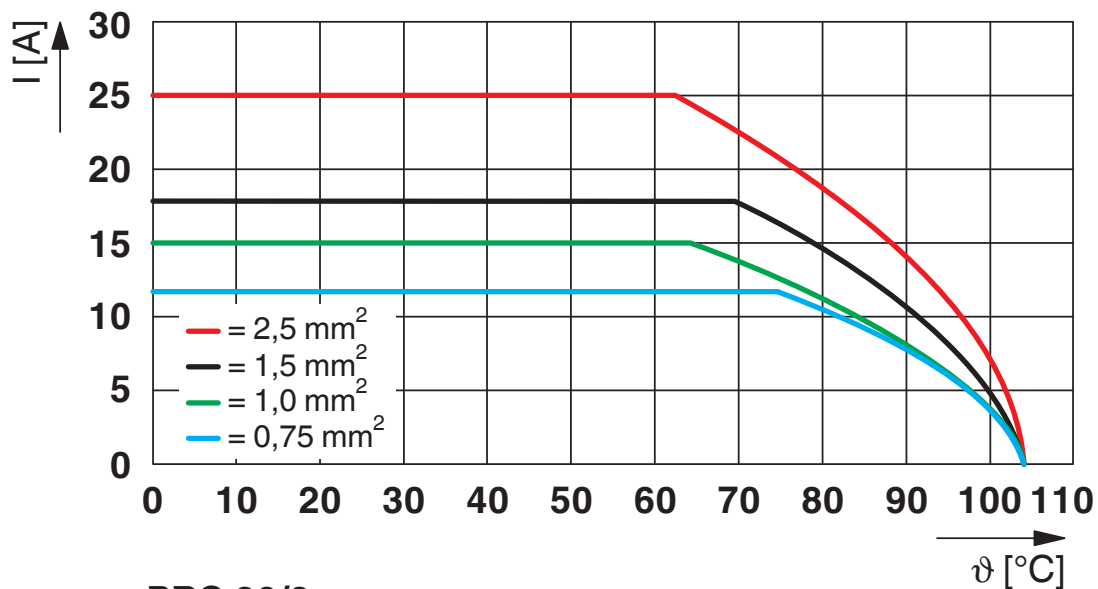
Degree of protection	IP66
	IP68 (2 m / 2 h)
	IP69
Category of shock impact	IK08 (-25°C)
Ambient temperature (operation)	-40 °C ... 85 °C (observe derating)
Ambient temperature (storage/transport)	-40 °C ... 70 °C
Ambient temperature (assembly)	-5 °C ... 85 °C

## Standards and regulations

Standards/specifications	IEC 61984:2008
	IEC 61535:2023
	UL 2238
	UL 2237

Drawings

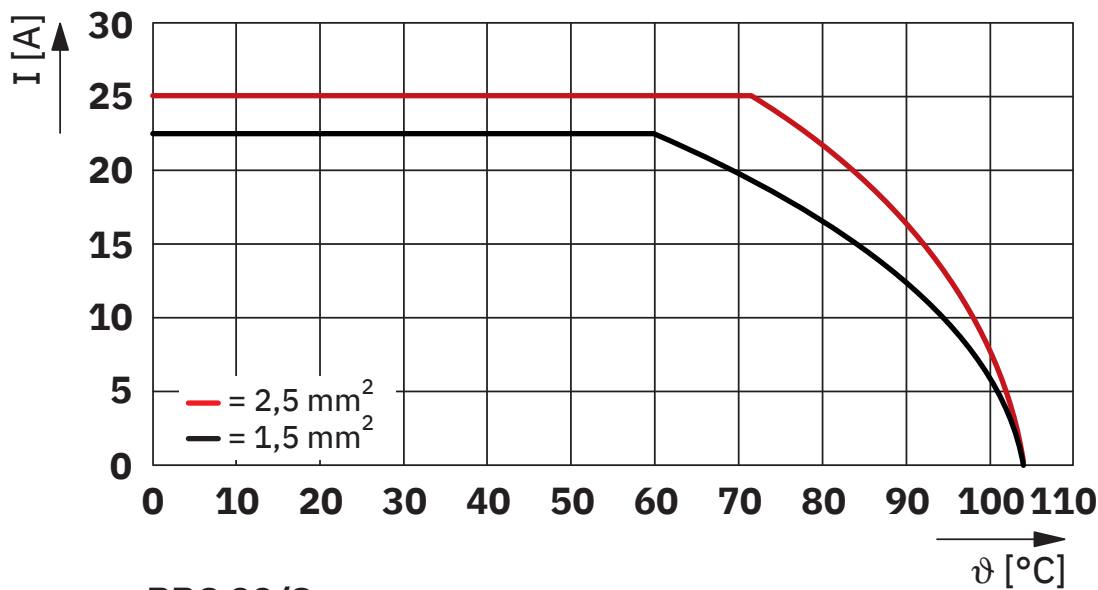
Diagram



**PRC 20/3...**  
**IEC 60512-5-2 / 2 conductors**

Derating

Diagram



**PRC 20/3...**  
**IEC 61535 / 2 conductors**

Derating

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## Approvals

To download certificates, visit the product detail page: <https://www.phoenixcontact.com/us/products/1313320>

 <b>UL Listed</b> Approval ID: E221474-20240312				
	Nominal voltage $U_N$	Nominal current $I_N$	Cross section AWG	Cross section $\text{mm}^2$
keine				
	600 V	20 A	20 - 14	20 - 14

 <b>cUL Listed</b> Approval ID: E221474-20240312				
	Nominal voltage $U_N$	Nominal current $I_N$	Cross section AWG	Cross section $\text{mm}^2$
keine				
	600 V	20 A	20 - 14	-

 <b>VDE Zeichengenehmigung</b> Approval ID: 334664-TL3-1				
	Nominal voltage $U_N$	Nominal current $I_N$	Cross section AWG	Cross section $\text{mm}^2$
keine				
	500 V	20 A	-	0.5 - 2.5

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## Classifications

### ECLASS

ECLASS-13.0	27440605
ECLASS-15.0	27440605

### ETIM

ETIM 10.0	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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