

# 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 |
|------------------|----|

### Electrical properties

|                     |                                                                                      |
|---------------------|--------------------------------------------------------------------------------------|
| Nominal voltage ATD | 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 |
|-----------------------------|-----|

## Environmental and real-life conditions

### Ambient conditions

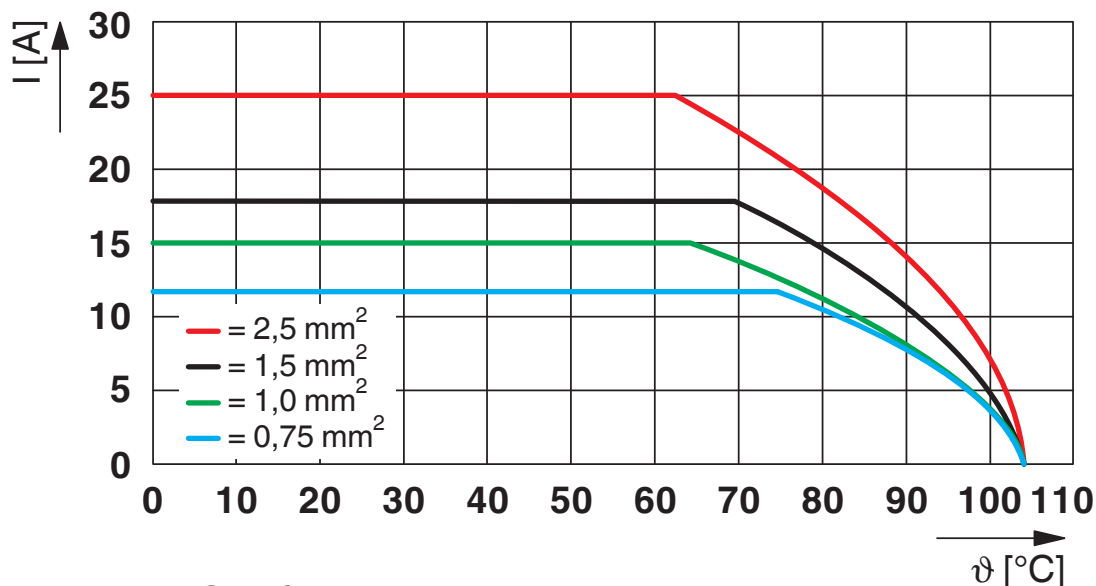
|                                         |                                     |
|-----------------------------------------|-------------------------------------|
| Degree of protection                    | IP66                                |
|                                         | IP68 (2 m / 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

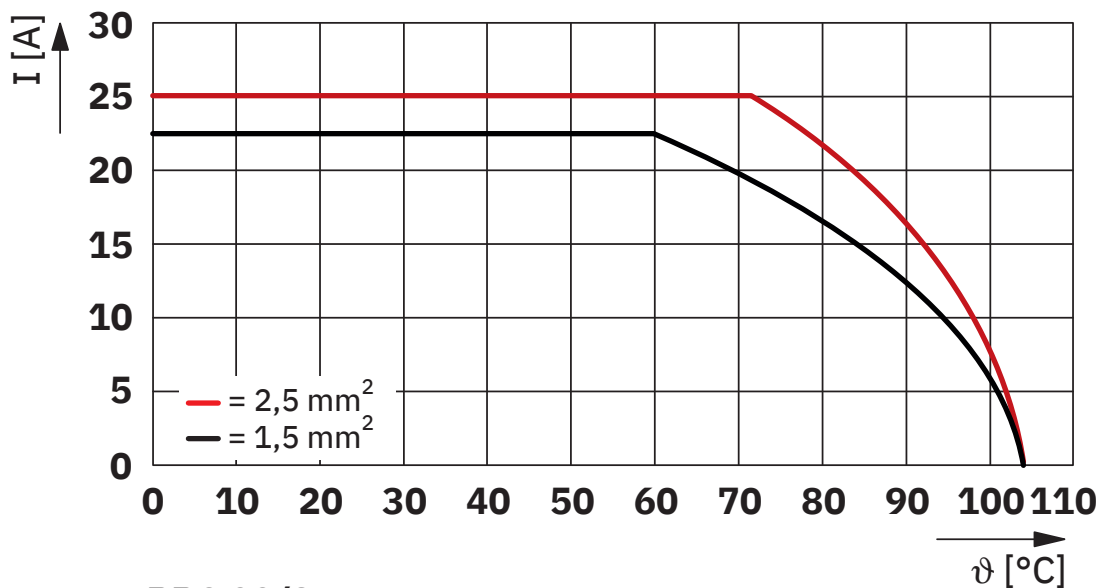


PRC 20/3...

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><br>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><br>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><br>Approval ID: 330887-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 9.0 | EC002560 |
|----------|----------|

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## Environmental product compliance

### EU RoHS

|                                         |                    |
|-----------------------------------------|--------------------|
| Fulfills EU RoHS substance requirements | Yes, No exemptions |
|-----------------------------------------|--------------------|

### 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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