

# PRC 20/4-C2-FC-MS2,5 6-14 - Connector



1308641

<https://www.phoenixcontact.com/us/products/1308641>

Please be informed that the data shown in this PDF document is generated from our online catalog. Please find the complete data in the user documentation. Our general terms of use for downloads are valid.



Connector, Range of articles: PRC 20, color: black, number of positions: 4, 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, 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                          | 1308641       |
| Packing unit                         | 1 pc          |
| Minimum order quantity               | 1 pc          |
| Sales key                            | AB03          |
| Product key                          | ABLHBA        |
| GTIN                                 | 4063151558789 |
| Weight per piece (including packing) | 60.1 g        |
| Weight per piece (excluding packing) | 48.047 g      |
| Customs tariff number                | 85366990      |
| Country of origin                    | PL            |

# PRC 20/4-C2-FC-MS2,5 6-14 - Connector



1308641

<https://www.phoenixcontact.com/us/products/1308641>

## 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 | 4                      |
| Connection profile  | 4                      |
| Coding              | 4-C2                   |

### 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

|                                         |                                         |
|-----------------------------------------|-----------------------------------------|
| 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                                     |

# PRC 20/4-C2-FC-MS2,5 6-14 - Connector



1308641

<https://www.phoenixcontact.com/us/products/1308641>

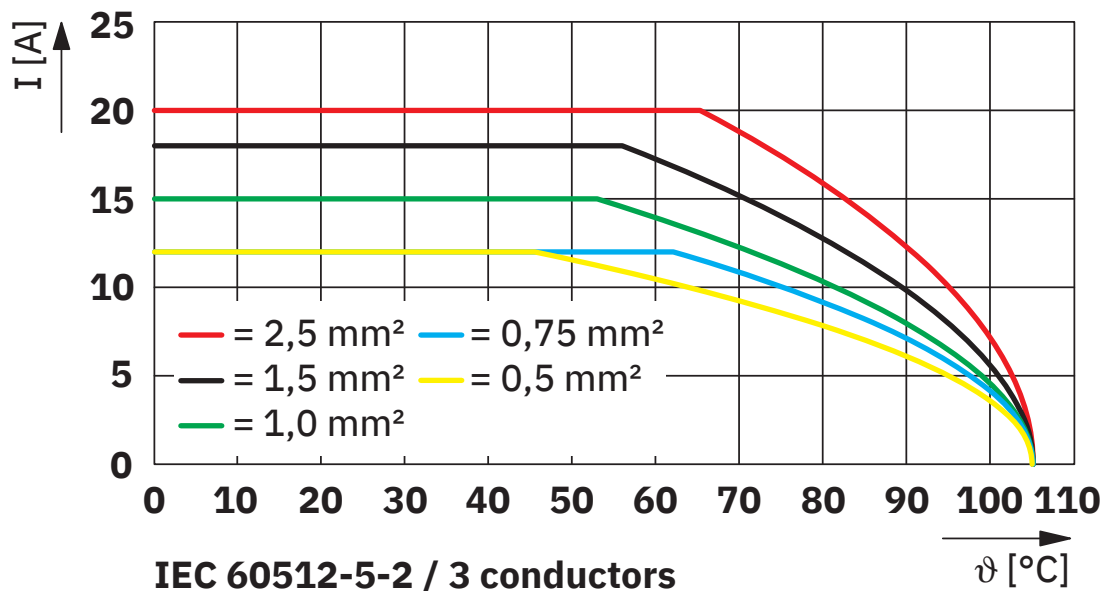
## Environmental and real-life conditions

### 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 ... 75 °C                    |
| Ambient temperature (assembly)          | -5 °C ... 85 °C                     |

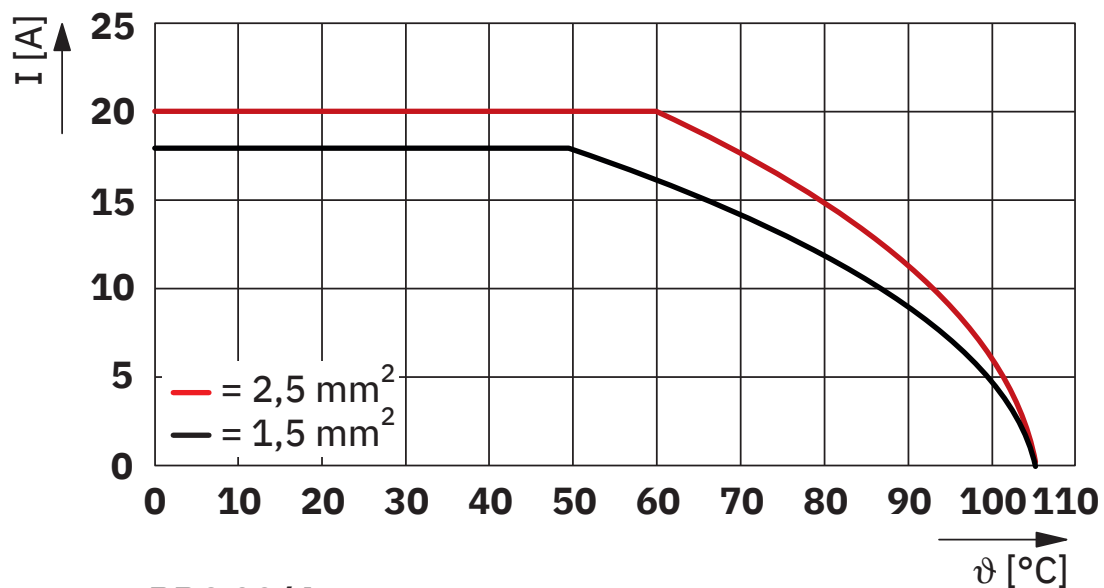
## Drawings

Diagram



Derating

Diagram



**PRC 20/4...**  
**IEC 61535 / 3 conductors**

Derating

# PRC 20/4-C2-FC-MS2,5 6-14 - Connector



1308641

<https://www.phoenixcontact.com/us/products/1308641>

## Approvals

To download certificates, visit the product detail page: <https://www.phoenixcontact.com/us/products/1308641>

|                                                                                   |                                                   |                                |                                |                   |
|-----------------------------------------------------------------------------------|---------------------------------------------------|--------------------------------|--------------------------------|-------------------|
|  | <b>UL Listed</b><br>Approval ID: E221474-20240312 |                                |                                |                   |
|                                                                                   |                                                   | Nominal voltage U <sub>N</sub> | Nominal current I <sub>N</sub> | Cross section AWG |
| keine                                                                             |                                                   |                                |                                |                   |
|                                                                                   | 600 V                                             | 20 A                           | 20 - 14                        | 20 - 14           |

|                                                                                   |                                                    |                                |                   |                               |
|-----------------------------------------------------------------------------------|----------------------------------------------------|--------------------------------|-------------------|-------------------------------|
|  | <b>cUL Listed</b><br>Approval ID: E221474-20240312 |                                |                   |                               |
|                                                                                   |                                                    |                                |                   |                               |
|                                                                                   | Nominal voltage U <sub>N</sub>                     | Nominal current I <sub>N</sub> | Cross section AWG | Cross section mm <sup>2</sup> |
| keine                                                                             |                                                    |                                |                   |                               |
|                                                                                   | 600 V                                              | 20 A                           | 20 - 14           | -                             |

|                                                                                     |                                |                                |                   |                               |
|-------------------------------------------------------------------------------------|--------------------------------|--------------------------------|-------------------|-------------------------------|
|  | <b>VDE Zeichengenehmigung</b>  |                                |                   |                               |
|                                                                                     | Approval ID: 330887-TL3-1      |                                |                   |                               |
|                                                                                     | Nominal voltage U <sub>N</sub> | Nominal current I <sub>N</sub> | Cross section AWG | Cross section mm <sup>2</sup> |
| keine                                                                               |                                |                                |                   |                               |
|                                                                                     | 500 V                          | 20 A                           | -                 | 0.5 - 2.5                     |

# PRC 20/4-C2-FC-MS2,5 6-14 - Connector



1308641

<https://www.phoenixcontact.com/us/products/1308641>

## Classifications

### ECLASS

|             |          |
|-------------|----------|
| ECLASS-13.0 | 27440605 |
| ECLASS-15.0 | 27440605 |

### ETIM

|          |          |
|----------|----------|
| ETIM 9.0 | EC002560 |
|----------|----------|

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%               |