

# M23-06P1N8A8002 - Cable connector



1629235

<https://www.phoenixcontact.com/us/products/1629235>

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M23, Cable connector, series: M23 PRO, straight, shielded: yes, Screw locking mechanism, No. of pos.: 6, Direction of rotation: Standard, contact connection type: Pin, Crimp connection, cable diameter range: 4 mm ... 8.5 mm, coding: N, Item is lead-free in accordance with RoHS II without Exemption 6c (Pb < 0.1 %)

## Your advantages

- Solutions with cross-manufacturer compatibility for standard and fast locking systems
- Reliable under the harshest conditions: cable connectors with vibration brake
- Modern, consistent design for highly convenient operation
- Easy, cost-effective cable assembly: uniform shielding of M17 to M40

## Commercial data

|                                      |                                |
|--------------------------------------|--------------------------------|
| Item number                          | 1629235                        |
| Packing unit                         | 1 pc                           |
| Minimum order quantity               | 1 pc                           |
| Note                                 | Made to order (non-returnable) |
| Sales key                            | AB30                           |
| Product key                          | ABRABA                         |
| Catalog page                         | Page 76 (C-2-2019)             |
| GTIN                                 | 4055626618685                  |
| Weight per piece (including packing) | 116.6 g                        |
| Weight per piece (excluding packing) | 105 g                          |
| Customs tariff number                | 85366990                       |
| Country of origin                    | DE                             |

## Technical data

### Notes

|                    |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |
|--------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Order information: | Order crimp contacts 6 x Ø 2 mm separately                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |
| Safety note        |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |
| Safety note        | <p>WARNING: The connectors may not be plugged in or disconnected under load. Ignoring the warning or improper use may damage persons and/or property.</p> <ul style="list-style-type: none"> <li>• WARNING: Commission properly functioning products only. The products must be regularly inspected for damage. Decommission defective products immediately. Replace damaged products. Repairs are not possible.</li> <li>• WARNING: Only electrically qualified personnel may install and operate the product. They must observe the following safety notes. The qualified personnel must be familiar with the basics of electrical engineering. They must be able to recognize and prevent danger. The relevant symbol on the packaging indicates that only personnel familiar with electrical engineering are allowed to install and operate the product.</li> <li>• The products are suitable for applications in plant, controller, and electrical device engineering.</li> <li>• When operating the connectors in outdoor applications, they must be separately protected against environmental influences.</li> <li>• Assembled products may not be manipulated or improperly opened.</li> <li>• Only use mating connectors that are specified in the technical data of the standards listed (e.g. the ones listed in the product accessories online at <a href="https://www.phoenixcontact.com/products">phoenixcontact.com/products</a>).</li> <li>• When using the product in direct connection with third-party manufacturers, the user is responsible.</li> <li>• For operating voltages &gt; 50 V AC, conductive connector housings must be grounded</li> <li>• Ensure that the protective or functional ground has been properly connected.</li> <li>• VDE 0100/1.97 § 411.1.3.2 and DIN EN 60 204/11.98 § 14.1.3 are applicable when combining several circuits in a cable and/or connector</li> <li>• Only use tools recommended by Phoenix Contact</li> <li>• The installation notes/Design In documents online on the download page at <a href="https://www.phoenixcontact.com/products">phoenixcontact.com/products</a> must be observed for this product.</li> <li>• Operate the connector only when it is fully plugged in and interlocked.</li> <li>• Ensure that when laying the cable, the tensile load on the connectors does not exceed the upper limit specified in the standards.</li> <li>• Observe the minimum bending radius of the cable. Lay the cable without twisting it.</li> <li>• The connector warms up in normal operation. Depending on the ambient conditions, the surface of the connector can continue to warm up. In this case, the user is responsible for posting</li> </ul> |

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warnings (e.g. DIN EN ISO 13732-1:2008-12).

## Mounting

|             |    |
|-------------|----|
| Thread type | () |
|-------------|----|

## Product properties

|              |                                 |
|--------------|---------------------------------|
| Product type | Circular connector (cable-side) |
|--------------|---------------------------------|

### Data management status

|                  |    |
|------------------|----|
| Article revision | 07 |
|------------------|----|

## Connector

### Insulating body

|                                    |                                                               |
|------------------------------------|---------------------------------------------------------------|
| Note                               | Order information: Order crimp contacts 6 x Ø 2 mm separately |
| Coding                             | N                                                             |
| Insulation body material           | PA 6.6                                                        |
| Insertion/withdrawal cycles        | 100                                                           |
| Connection method                  | Crimp connection                                              |
| Contact switching type             | Pin                                                           |
| Application                        | Signal                                                        |
| Number of positions                | 6                                                             |
| Direction of rotation              | Standard                                                      |
| Connection profile                 | 6                                                             |
| Contact diameter                   | 2 mm                                                          |
| Signal contacts                    |                                                               |
| Litz wire cross-section            | Signal contacts min. 0.5 mm <sup>2</sup>                      |
| Litz wire cross-section            | Signal contacts max. 2.5 mm <sup>2</sup>                      |
| Nominal current per signal contact | 20 A                                                          |
| Note                               | for max. connection cross section                             |
| Rated voltage                      | Signal contact 300 V                                          |
| Rated surge voltage                | 2.5 kV                                                        |
| Overvoltage category               | II                                                            |
| Degree of pollution                | 3                                                             |
| Installation height                | 2000 m                                                        |

### Housing

|                                   |                                |
|-----------------------------------|--------------------------------|
| Housing material                  | GD-Zn                          |
| Type of locking                   | Screw locking mechanism        |
| Pg screw connection               | none                           |
| Degree of protection (plugged in) | IP66 / IP68 (2m / 24h) / IP69K |
| Thread type                       | M23                            |

### Seal

|                         |                 |
|-------------------------|-----------------|
| External cable diameter | 4 mm ... 8.5 mm |
| Seal material           | FKM             |

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## Environmental and real-life conditions

### Ambient conditions

|                                          |                                     |
|------------------------------------------|-------------------------------------|
| Ambient temperature (operation)          | -40 °C ... 105 °C (see to derating) |
| Ambient temperature (storage/transport)  | 15 °C ... 25 °C                     |
| Permissible humidity (storage/transport) | 50 % ... 65 %                       |
| Permanent temperature                    | 125 °C (DIN EN 60512-9-2 / 1000 h)  |

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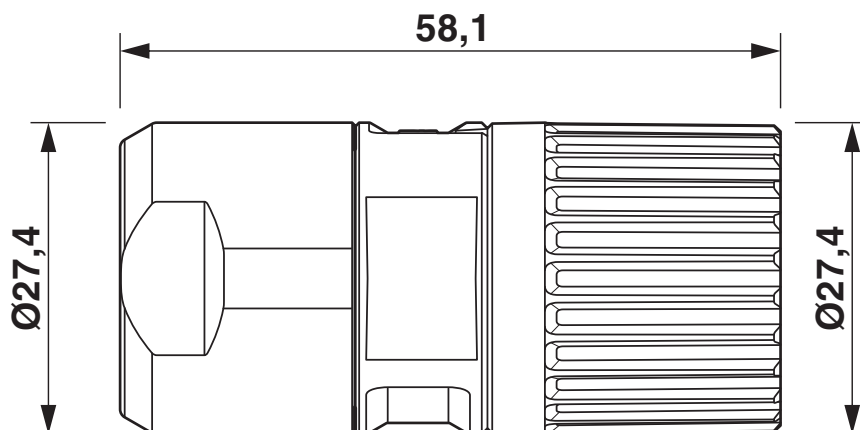
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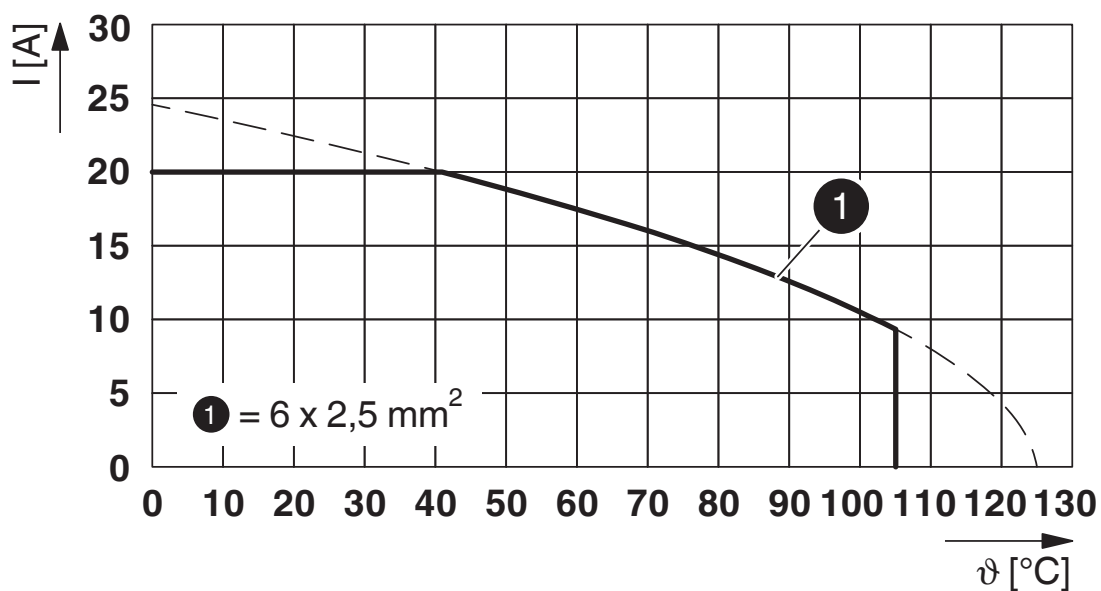
## Drawings

Dimensional drawing



Dimensional drawing, housing

Diagram



$I$  = current strength,  $\vartheta$  = ambient temperature, 6x 20 A

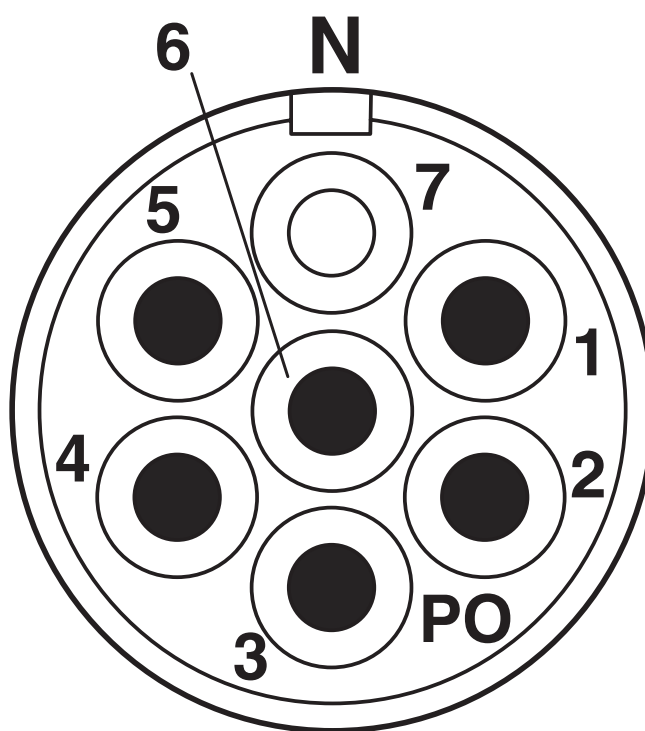
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Schematic diagram



Connector pin assignment

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## Approvals

To download certificates, visit the product detail page: <https://www.phoenixcontact.com/us/products/1629235>



**cUL Recognized**

Approval ID: E335019-20141210



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**cULus Recognized**

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## Classifications

### ECLASS

|             |          |
|-------------|----------|
| ECLASS-11.0 | 27440102 |
| ECLASS-12.0 | 27440116 |
| ECLASS-13.0 | 27440116 |

### ETIM

|          |          |
|----------|----------|
| ETIM 9.0 | EC002635 |
|----------|----------|

### UNSPSC

|             |          |
|-------------|----------|
| UNSPSC 21.0 | 39121400 |
|-------------|----------|



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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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## Accessories

### SF-Z0028 - Torque screwdriver

1607456

<https://www.phoenixcontact.com/us/products/1607456>

Torque screwdriver, series: RC, UC, SH, SF



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### SF-Z0027 - Hook wrench

1607455

<https://www.phoenixcontact.com/us/products/1607455>

Hook wrench, series: RC, UC, RF, SF



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## RF-Z0007 - Special wrench

1614347

<https://www.phoenixcontact.com/us/products/1614347>

Special wrench, series: RF



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## RC-Z2220 - Contact insertion and removal tool

1604360

<https://www.phoenixcontact.com/us/products/1604360>

Positioning and removal tool for RC crimp contacts, pin/socket diameter: 2 mm



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## RC-Z2490 - Contact insertion and removal tool

1611803

<https://www.phoenixcontact.com/us/products/1611803>



Positioning and unlocking tool for RC crimp contacts (D-SUB) for pin/socket, diameter: 2 mm

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## RC-5SP2000 - Crimp contact

1603529

<https://www.phoenixcontact.com/us/products/1603529>



Crimp contact, Pin, turned, contact diameter: 2 mm, crimp range: 0.5 mm<sup>2</sup> ... 0.75 mm<sup>2</sup>, Alternative product in accordance with RoHS II without Exemption 6c (Pb < 0.1 %) item no.: 1241632

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### RC-59P2000 - Crimp contact

1603498

<https://www.phoenixcontact.com/us/products/1603498>



Crimp contact, Pin, turned, Single contact, contact diameter: 2 mm, crimp range: 0.75 mm<sup>2</sup> ... 1 mm<sup>2</sup>, Alternative product in accordance with RoHS II without Exemption 6c (Pb < 0.1 %) item no.: 1241632

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### RC-5CP2000 - Crimp contact

1603513

<https://www.phoenixcontact.com/us/products/1603513>



Crimp contact, Pin, turned, contact diameter: 2 mm, crimp range: 1 mm<sup>2</sup> ... 1.5 mm<sup>2</sup>, Alternative product in accordance with RoHS II without Exemption 6c (Pb < 0.1 %) item no.: 1241634

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## RC-5AP2000 - Crimp contact

1603505

<https://www.phoenixcontact.com/us/products/1603505>



Crimp contact, Pin, turned, contact diameter: 2 mm, crimp range: 1.5 mm<sup>2</sup> ... 2.5 mm<sup>2</sup>, Alternative product in accordance with RoHS II without Exemption 6c (Pb < 0.1 %) item no.: 1241634

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## PROT-M23PRO-SG-IT-IP20 - Plastic protective cap

1055744

<https://www.phoenixcontact.com/us/products/1055744>



Plastic protective cap, M23, degree of protection: IP20, series: M23 PRO Signal

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## PROT-M23PRO-SG-IT-IP67 - Plastic protective cap

1055745

<https://www.phoenixcontact.com/us/products/1055745>

Plastic protective cap, M23, degree of protection: IP67, series: M23 PRO Signal



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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)