

## Cable connector - M23-17P1N8A8004 - 1629201

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Cable connector, M23 PRO, straight, shielded: yes, Screw locking, M23, No. of pos.: 17, type of contact: Pin, Crimp connection, cable diameter range: 9 mm ... 15 mm, coding:N

### 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



### Key Commercial Data

|                      |   |
|----------------------|---|
| Packing unit         | 1 pc  |
| GTIN                 | <br>4 055626 618340 |
| GTIN                 | 4055626618340   |
| Custom tariff number | 85366990  |
| Country of origin    | Germany   |

### Technical data

#### Temperature range

|                   |                   |
|-------------------|-------------------|
| Temperature range | -40 °C ... 125 °C |
|-------------------|-------------------|

#### Standards and Regulations

|             |  |
|-------------|--|
| Safety note | WARNING: The connectors may not be plugged in or disconnected under load. Ignoring the warning or improper use may damage persons and/or property. |
|-------------|--|

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### Technical data

#### Standards and Regulations

|  |   |
|--|---|
|  | <ul style="list-style-type: none"> <li>• <b>WARNING:</b> 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> </ul>  |
|  | <ul style="list-style-type: none"> <li>• <b>WARNING:</b> 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> </ul> |
|  | <ul style="list-style-type: none"> <li>• The products are suitable for applications in plant, controller, and electrical device engineering.</li> </ul>   |
|  | <ul style="list-style-type: none"> <li>• When operating the connectors in outdoor applications, they must be separately protected against environmental influences.</li> </ul>  |
|  | <ul style="list-style-type: none"> <li>• Assembled products may not be manipulated or improperly opened.</li> </ul>   |
|  | <ul style="list-style-type: none"> <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="http://phoenixcontact.com/products">phoenixcontact.com/products</a>).</li> </ul>   |
|  | <ul style="list-style-type: none"> <li>• When using the product in direct connection with third-party manufacturers, the user is responsible.</li> </ul>  |
|  | <ul style="list-style-type: none"> <li>• For operating voltages &gt; 50 V AC, conductive connector housings must be grounded</li> </ul>   |
|  | <ul style="list-style-type: none"> <li>• Ensure that the protective or functional ground has been properly connected.</li> </ul>  |
|  | <ul style="list-style-type: none"> <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> </ul>   |
|  | <ul style="list-style-type: none"> <li>• Only use tools recommended by Phoenix Contact</li> </ul>   |
|  | <ul style="list-style-type: none"> <li>• The installation notes/Design In documents online on the download page at <a href="http://phoenixcontact.com/products">phoenixcontact.com/products</a> must be observed for this product.</li> </ul>   |
|  | <ul style="list-style-type: none"> <li>• Operate the connector only when it is fully plugged in and interlocked.</li> </ul>   |
|  | <ul style="list-style-type: none"> <li>• Ensure that when laying the cable, the tensile load on the connectors does not exceed the upper limit specified in the standards.</li> </ul>   |
|  | <ul style="list-style-type: none"> <li>• Observe the minimum bending radius of the cable. Lay the cable without twisting it.</li> </ul>   |
|  | <ul style="list-style-type: none"> <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 warnings (e.g. DIN EN ISO 13732-1:2008-12).</li> </ul>  |

#### Data of the insulating body

|                           |   |
|---------------------------|---|
| Note                      | Order information: Order crimp contacts Ø 1 mm separately |
| Coding                    | N   |
| Insulator material        | PA 6.6  |
| Contact connection method | Crimp connection  |
| Type of contacts          | Pin   |
| Application               | Signal  |

## Cable connector - M23-17P1N8A8004 - 1629201

### Technical data

#### Data of the insulating body

|   |                                   |
|---|-----------------------------------|
| Number of positions                             | 17                                |
| Direction of rotation                           | Standard                          |
| Contact diameter of signal contacts             | 1 mm                              |
| Litz wire cross section of signal contacts min. | 0.08 mm <sup>2</sup>              |
| Litz wire cross section of signal contacts max. | 1 mm <sup>2</sup>                 |
| Nominal current per signal contact              | 8 A                               |
| Note  | for max. connection cross section |
| Rated voltage of signal contact                 | 125 V                             |
| Rated surge voltage                             | 2 kV                              |
| Overvoltage category                            | III                               |
| Degree of pollution                             | 3                                 |
| Note  | for max. connection cross section |
| Installation height                             | 2000 m                            |

#### Housing data

|  |                          |
|--|--------------------------|
| Housing material                       | GD-Zn                    |
| Type of locking                        | Screw locking            |
| Degree of protection (when plugged in) | IP66 / IP68 (2 m / 24 h) |
| Thread type                            | M23                      |

#### Cable seal data

|                  |                |
|------------------|----------------|
| Cable diameter   | 9 mm ... 15 mm |
| Sealing material | FKM            |

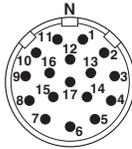
#### Environmental Product Compliance

|            |   |
|------------|---|
| China RoHS | Environmentally friendly use period: unlimited = EFUP-e |
|            | No hazardous substances above threshold values          |

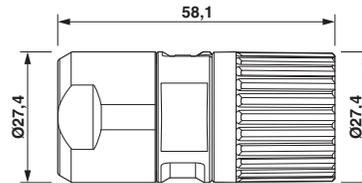
### Drawings

# Cable connector - M23-17P1N8A8004 - 1629201

Schematic diagram

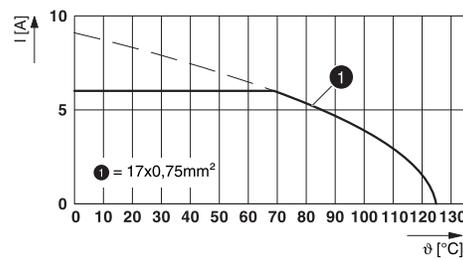


Dimensional drawing



Technical drawings can be found under Downloads

Diagram



I = current strength,  $\vartheta$  = ambient temperature, 17x 6 A

## Classifications

eCl@ss

|               |          |
|---------------|----------|
| eCl@ss 10.0.1 | 27440102 |
| eCl@ss 11.0   | 27440102 |
| eCl@ss 9.0    | 27440102 |

ETIM

|          |          |
|----------|----------|
| ETIM 6.0 | EC002061 |
|----------|----------|

## Approvals

Approvals

Approvals

UL Recognized / cUL Recognized / cULus Recognized

Ex Approvals

# Cable connector - M23-17P1N8A8004 - 1629201

## Approvals

### Approval details

|                            |  |   |                  |
|----------------------------|--|---|------------------|
| UL Recognized              |  | <a href="http://database.ul.com/cgi-bin/XYV/template/LISEXT/1FRAME/index.htm">http://database.ul.com/cgi-bin/XYV/template/LISEXT/1FRAME/index.htm</a> | E335019-20141210 |
| Nominal voltage UN         |  | 150 V   |                  |
| Nominal current IN         |  | 4.5 A   |                  |
| mm <sup>2</sup> /AWG/kcmil |  | 20  |                  |

|                            |  |   |                  |
|----------------------------|--|---|------------------|
| cUL Recognized             |  | <a href="http://database.ul.com/cgi-bin/XYV/template/LISEXT/1FRAME/index.htm">http://database.ul.com/cgi-bin/XYV/template/LISEXT/1FRAME/index.htm</a> | E335019-20141210 |
| Nominal voltage UN         |  | 150 V   |                  |
| Nominal current IN         |  | 3.5 A   |                  |
| mm <sup>2</sup> /AWG/kcmil |  | 20  |                  |

|                  |  |
|------------------|--|
| cULus Recognized |  |
|------------------|--|

## Accessories

### Accessories

Circular connectors (device side)

Hook wrench - SF-Z0027 - 1607455



Hook wrench

### Crimp contact

## Cable connector - M23-17P1N8A8004 - 1629201

### Accessories

Crimp contact - RC-11P2000 - 1596770



Crimp contact, turned, Single contact, contact diameter: 1 mm, crimp range: 0.08 mm<sup>2</sup> ... 0.22 mm<sup>2</sup>

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Crimp contact - RC-12P2000 - 1597862



Crimp contact, turned, Single contact, contact diameter: 1 mm, crimp range: 0.14 mm<sup>2</sup> ... 0.56 mm<sup>2</sup>

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Crimp contact - RC-1KP2000 - 1602996



Crimp contact, turned, Single contact, contact diameter: 1 mm, crimp range: 0.5 mm<sup>2</sup> ... 1 mm<sup>2</sup>

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Crimp contact - RC-22P2000 - 1603321



Crimp contact, rolled, Single contact, contact diameter: 1 mm, crimp range: 0.22 mm<sup>2</sup> ... 0.56 mm<sup>2</sup>, Single contact

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Crimp contact - RC-22P2300 - 1603324



Crimp contact, rolled, Taped articles, number of pieces per reel: 500, contact diameter: 1 mm, crimp range: 0.22 mm<sup>2</sup> ... 0.56 mm<sup>2</sup>

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## Cable connector - M23-17P1N8A8004 - 1629201

### Accessories

Crimp contact - RC-22P2400 - 1603325



Crimp contact, rolled, number of pieces per reel: 10000, contact diameter: 1 mm, crimp range: 0.22 mm<sup>2</sup> ... 0.56 mm<sup>2</sup>

Crimp contact - RC-21P2000 - 1603310



Crimp contact, rolled, Single contact, contact diameter: 1 mm, crimp range: 0.08 mm<sup>2</sup> ... 0.22 mm<sup>2</sup>, Single contact

Crimp contact - RC-21P2300 - 1603313



Crimp contact, rolled, Taped articles, number of pieces per reel: 500, contact diameter: 1 mm, crimp range: 0.08 mm<sup>2</sup> ... 0.22 mm<sup>2</sup>

Crimp contact - RC-21P2400 - 1611637



Crimp contact, rolled, number of pieces per reel: 10000, contact diameter: 1 mm, crimp range: 0.08 mm<sup>2</sup> ... 0.22 mm<sup>2</sup>

### Mounting material

Torque screwdriver - SF-Z0028 - 1607456



Torque screwdriver

## Cable connector - M23-17P1N8A8004 - 1629201

### Accessories

Special wrench - RF-Z0007 - 1614347



Special wrench

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### Protective cover

Protective cap - RC-Z2058 - 1604223



Plastic protection cap for connectors with M23 knurled nut

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Plastic anti-static dust protection cap - RC-Z2468 - 1611796



Plastic protection cap, antistatic, for connectors with M23 knurled nut

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Metal protective cap - CA-Z0077 - 1627224



Metal protection cap with steel wire and loop, for M23 signal connectors with knurled nut for fastening to the cable

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### Universal tools

Contact removal tool - UNIFOX-RT M23 17 - 1253082



Removal tool for the M23 PRO series 17-position signal contact carrier

## Cable connector - M23-17P1N8A8004 - 1629201

### Accessories

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