

## Cable plug in molded plastic - K-8E-OE/5,0-H00/M23F8-C5-S - 1622225

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Cable plug in molded plastic, length: 5 m, color of outer sheath: orange RAL 2003

### Your advantages

- ✓ Transmission of signals, data, and power in just a single connector
- ✓ CAT5 data interface for up to 100 Mbps
- ✓ Our standard: robust halogen-free PUR cable
- ✓ Simple and safe: 100% electrically tested and assembled ready for use
- ✓ Designs with pre-assembled cables on one or both sides
- ✓ Customer-specific assemblies and cable lengths can be supplied

RoHS

### Key Commercial Data

|                        |                                                                                                         |
|------------------------|---------------------------------------------------------------------------------------------------------|
| Packing unit           | 1 pc                                                                                                    |
| Minimum order quantity | 2 pc                                                                                                    |
| GTIN                   | <br>4 055626 069692 |
| GTIN                   | 4055626069692                                                                                           |

### Technical data

|                  |      |
|------------------|------|
| Conductor length | 5 m  |
| Nominal current  | 26 A |

### 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.                                                              |
|             | • 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. |
|             | • WARNING: Only electrically qualified personnel may install and operate the product. They must observe the following safety notes.                                                                             |

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## Technical data

### Standards and Regulations

|  |                                                                                                                                                                                                                                                                                                |
|--|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
|  | 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. |
|  | <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="https://www.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="https://www.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>       |

### Connector specifications

|                             |                            |
|-----------------------------|----------------------------|
| Type                        | straight plastic-sheathed  |
| Housing material            | PUR                        |
| Thread type                 | M23                        |
| Locking type                | SPEEDCON locking           |
| Degree of protection        | IP67, when in locked state |
|                             | IP68, when in locked state |
| Number of positions         | 4+4+4+PE                   |
| Direction of rotation       | Standard                   |
| Type of contact             | Socket                     |
| Insertion/withdrawal cycles | 100                        |
| Max. current                | 30 A                       |
| Voltage                     | 630 V AC                   |
| Overvoltage category        | III                        |

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## Technical data

### Connector specifications

|                     |      |
|---------------------|------|
| Degree of pollution | 3    |
| Rated surge voltage | 6 kV |

### Cable specifications

|                                               |                                                                                                                                                                   |
|-----------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Type of cable                                 | HDSL11Y-J                                                                                                                                                         |
| Signal type                                   | CAT5                                                                                                                                                              |
| Transmission speed                            | 100 Mbps (Data interface)                                                                                                                                         |
| Shielded                                      | yes                                                                                                                                                               |
| Cable structure                               | (5x 2.5 + 2x (2x 0.5) + (4x 0.34)C) C                                                                                                                             |
| External cable diameter                       | 15.5 mm ±0.5 mm                                                                                                                                                   |
| Outer sheath, material                        | PUR                                                                                                                                                               |
| Material wire insulation                      | TPE                                                                                                                                                               |
| External sheath, color                        | orange RAL 2003                                                                                                                                                   |
| Single wire, color                            | Black 1, black 2, black 3, black 4, green/yellow Power wires + PE<br>brown, violet, black 5, green Signal wires<br>blue, yellow, white, orange Data wires         |
| Nominal voltage, cable                        | 1000 V (300 V signal)                                                                                                                                             |
| Test voltage                                  | 4 kV (1.5 kV signal)                                                                                                                                              |
| Rated current                                 | 26 A (Power, according to DIN VDE 0298-4 tab. 11/5)<br>8 A (Signal, according to DIN VDE 0298-4 tab. 11/5)<br>3.6 A (Data, according to DIN VDE 0298-4 tab. 11/5) |
| Smallest bending radius, fixed installation   | 73 mm                                                                                                                                                             |
| Smallest bending radius, movable installation | 148 mm                                                                                                                                                            |
| Number of bending cycles                      | 1000000                                                                                                                                                           |
| Traversing path                               | 6 m                                                                                                                                                               |
| Acceleration                                  | 30 m/s²                                                                                                                                                           |
| Ambient temperature for fixed installation    | -40 °C ... 80 °C                                                                                                                                                  |
| Ambient temperature for flexible installation | -30 °C ... 60 °C                                                                                                                                                  |
| UL AWM style                                  | 20234 / 10492 (80°C/1000 V)                                                                                                                                       |
| Special properties                            | Flexible cable conduit capable                                                                                                                                    |
| Flame resistance                              | IEC 60332-1-2                                                                                                                                                     |
| Halogen-free                                  | According to EN 50267-2-1                                                                                                                                         |
| Resistance to oil                             | EN 60811-2-1                                                                                                                                                      |

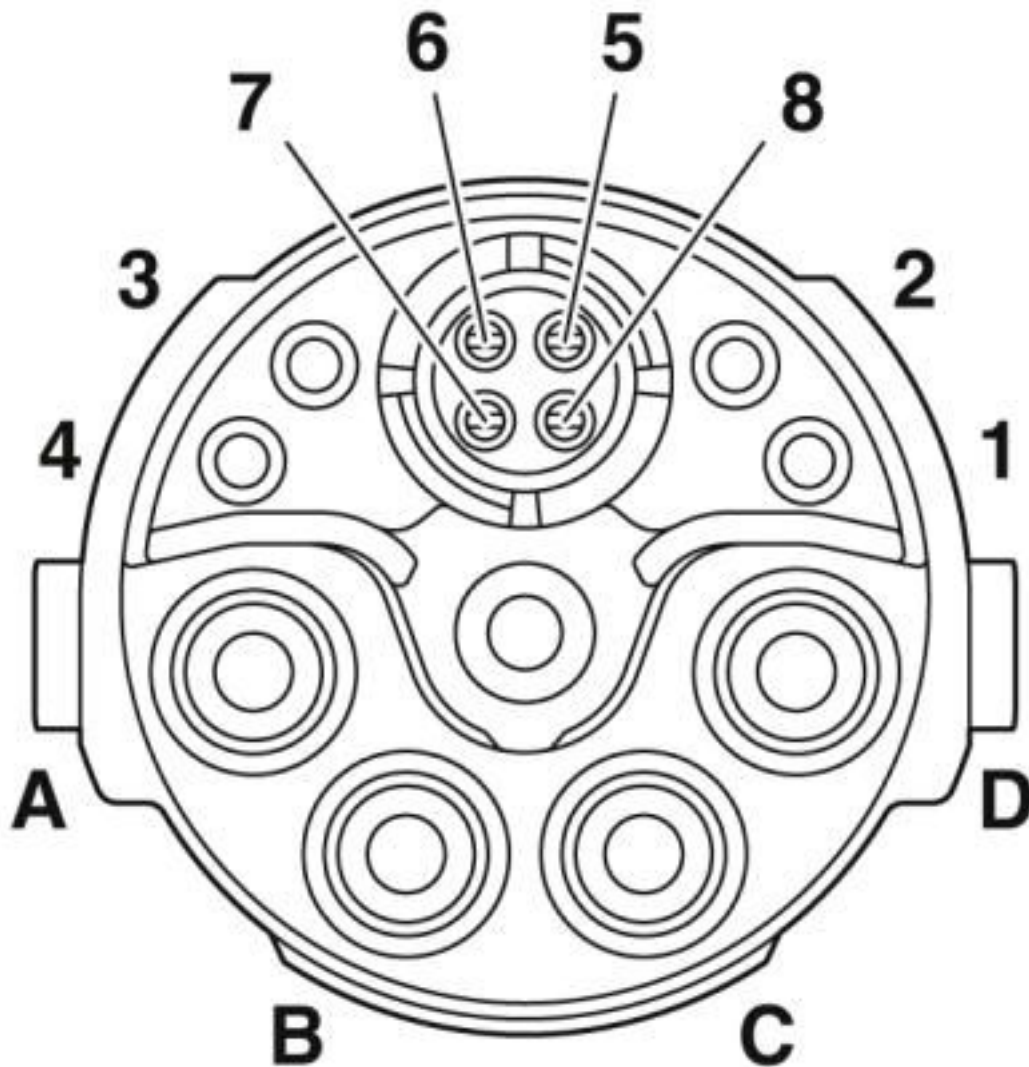
### Environmental Product Compliance

|            |                                                                                                     |
|------------|-----------------------------------------------------------------------------------------------------|
| REACH SVHC | Lead 7439-92-1                                                                                      |
| China RoHS | Environmentally Friendly Use Period = 50 years                                                      |
|            | For details about hazardous substances go to tab "Downloads", Category "Manufacturer's declaration" |

## Drawings

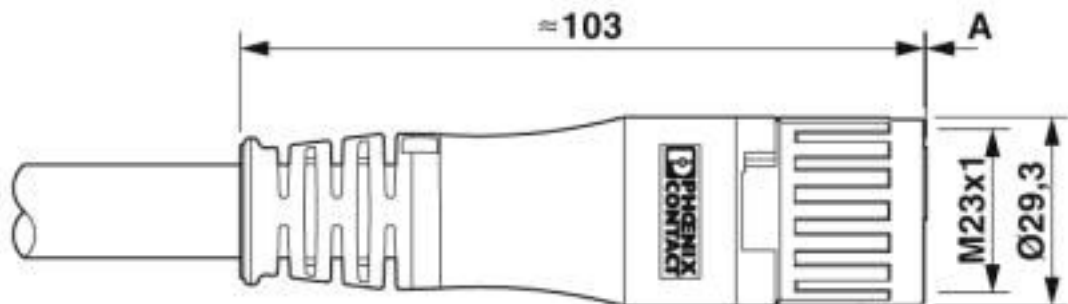
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Schematic diagram



Connector pin assignment

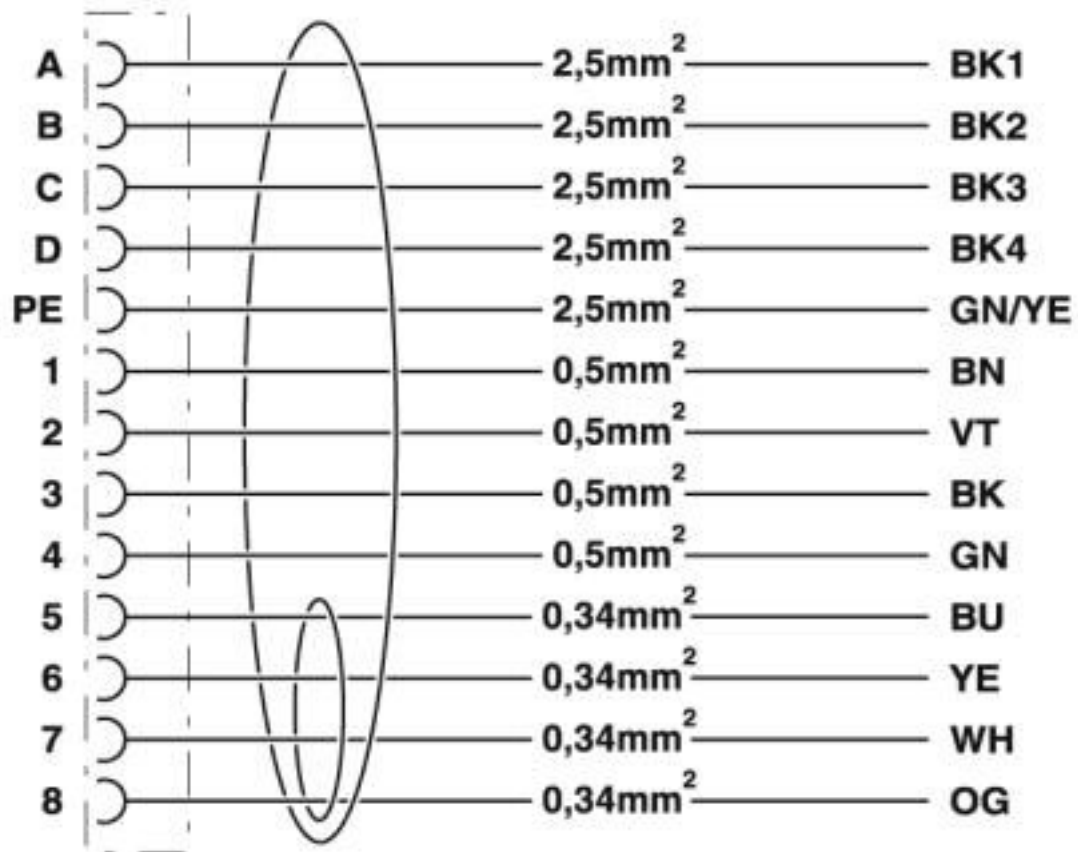
Dimensional drawing



Pin version: dimension A = ~ 0.3 mm, socket version: dimension A = 0 mm

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Circuit diagram



Contact assignment of M23 plugs/sockets

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Cable cross section



### Classifications

eCl@ss

|               |          |
|---------------|----------|
| eCl@ss 10.0.1 | 27060311 |
| eCl@ss 5.1    | 27060300 |
| eCl@ss 6.0    | 27279200 |
| eCl@ss 7.0    | 27279218 |
| eCl@ss 8.0    | 27279218 |
| eCl@ss 9.0    | 27060311 |

ETIM

|          |          |
|----------|----------|
| ETIM 4.0 | EC001855 |
| ETIM 5.0 | EC001855 |
| ETIM 6.0 | EC001855 |
| ETIM 7.0 | EC001855 |

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## Classifications

### UNSPSC

|             |          |
|-------------|----------|
| UNSPSC 13.2 | 31251501 |
| UNSPSC 19.0 | 31251501 |
| UNSPSC 20.0 | 31251501 |
| UNSPSC 21.0 | 31251501 |

## Approvals

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#### Approvals

UL Listed / cUL Listed / EAC / cULus Listed

#### Ex Approvals

### Approval details

|                    |                                                                                     |                                                                                                                                                                        |
|--------------------|-------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| UL Listed          |  | <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> E468743-20150929 |
| Nominal voltage UN | 600 V                                                                               |                                                                                                                                                                        |
| Nominal current IN | 16 A                                                                                |                                                                                                                                                                        |

|                    |                                                                                     |                                                                                                                                                                        |
|--------------------|-------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| cUL Listed         |  | <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> E468743-20150929 |
| Nominal voltage UN | 600 V                                                                               |                                                                                                                                                                        |
| Nominal current IN | 16 A                                                                                |                                                                                                                                                                        |

|     |                                                                                     |            |
|-----|-------------------------------------------------------------------------------------|------------|
| EAC |  | B.00286/19 |
|-----|-------------------------------------------------------------------------------------|------------|

|              |                                                                                     |
|--------------|-------------------------------------------------------------------------------------|
| cULus Listed |  |
|--------------|-------------------------------------------------------------------------------------|

## Accessories

### Accessories

## Cable plug in molded plastic - K-8E-OE/5,0-H00/M23F8-C5-S - 1622225

### Accessories

#### Conductor marking

Insert label - PABA WH/23 - 1013779



Insert label, Strip, white, unlabeled, can be labeled with: CMS-P1-PLOTTER, mounting type: thread on, cable diameter range: 1.5 ... 35 mm, lettering field size: 23 x 4 mm, Number of individual labels: 20

Insert label - PABA YE/23 - 1013782



Insert label, Strip, yellow, unlabeled, can be labeled with: CMS-P1-PLOTTER, mounting type: thread on, cable diameter range: 1.5 ... 35 mm, lettering field size: 23 x 4 mm, Number of individual labels: 20

#### Marker carrier cable

Conductor marker carrier - PATG 6/23 - 0808037



Conductor marker carrier, transparent, unlabeled, mounting type: slide-on, cable diameter range: 14 ... 22 mm, lettering field size: 23 x 4 mm

#### Protective cover

Metal protective cap - SH-Z2300 - 1622141



Metal protection cap with steel wire, for M23 hybrid connectors with knurled nut

Metal protective cap - SH-Z0077 - 1627226



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

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