

# K-12 - OE/010-E00/M23 FK-N2 - Cable plug in molded plastic



1619282

<https://www.phoenixcontact.com/us/products/1619282>

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Cable plug in molded plastic, application: Signal, angled rotatable, -120° left/120° right, number of positions: 12, type of locking: Screw locking mechanism, cable length: 10 m, shielded: yes, color of outer sheath: orange RAL 2003, this item is expected to be lead-free from Q1 2027 in accordance with RoHS II without exception 6c (Pb < 0.1%), a lead-free alternative is possible on request in advance

## Your advantages

- Our standard: robust halogen-free PUR cable
- Simple and safe: 100% electrically tested and assembled ready for use
- Designs with preassembled cables on one or both sides
- Easy connection: angled design with configurable cable outlet direction
- High flexibility: customer-specific assemblies and cable lengths can be supplied

## Commercial data

|                                      |               |
|--------------------------------------|---------------|
| Item number                          | 1619282       |
| Packing unit                         | 1 pc          |
| Minimum order quantity               | 1 pc          |
| Sales key                            | AB34          |
| Product key                          | ABRDFC        |
| GTIN                                 | 4046356835190 |
| Weight per piece (including packing) | 1,150.58 g    |
| Weight per piece (excluding packing) | 1,150.58 g    |
| Customs tariff number                | 85444290      |
| Country of origin                    | DE            |

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## Technical data

### Product properties

|              |                        |
|--------------|------------------------|
| Product type | Signal and power cable |
| Application  | Signal                 |

### Connector

#### Connector specifications

|                                 |   |
|---------------------------------|---|
| Type                            | angled rotatable, -120° left/120° right |
| Housing material                | Die-cast zinc                           |
| Type of locking                 | Screw locking mechanism                 |
| Degree of protection            | IP67, when in locked state              |
| No. of pos.                     | 12                                      |
| Direction of rotation           | Standard                                |
| Insertion/withdrawal cycles     | 50                                      |
| Contact resistance              | < 0.3 mΩ                                |
| Voltage                         | 48 V AC                                 |
| Overvoltage category            | III                                     |
| Degree of pollution             | 3                                       |
| Rated surge voltage             | 1.5 kV                                  |
| Ambient temperature (operation) | -40 °C ... 105 °C                       |

### Electrical properties

|                       |     |
|-----------------------|-----|
| Nominal current $I_N$ | 9 A |
|-----------------------|-----|

### Cable/line

|              |      |
|--------------|------|
| Cable length | 10 m |
|--------------|------|

#### Cable specifications

|   |  |
|---|--|
| Cable type  | RSL9YSLC11Y  |
| Shielded  | yes  |
| Cable structure   | 4 x 2 x 0.25 mm <sup>2</sup> + 2 x 0.5 mm <sup>2</sup> |
| Cable structure (AWG)                                     | 24 AWG/4pr + 20 AWG/2c                                 |
| External cable diameter                                   | 8.00 mm  |
| Outer sheath, material                                    | TPU  |
| Material wire insulation                                  | PP   |
| External sheath, color                                    | orange RAL 2003  |
| Test voltage  | 1 kV   |
| Rated current   | 9 A  |
| Smallest bending radius, fixed installation               | 40 mm  |
| Smallest bending radius, movable installation             | 60 mm  |
| Ambient temperature (operation) for fixed installation    | -40 °C ... 80 °C                                       |
| Ambient temperature (operation) for flexible installation | -20 °C ... 60 °C                                       |

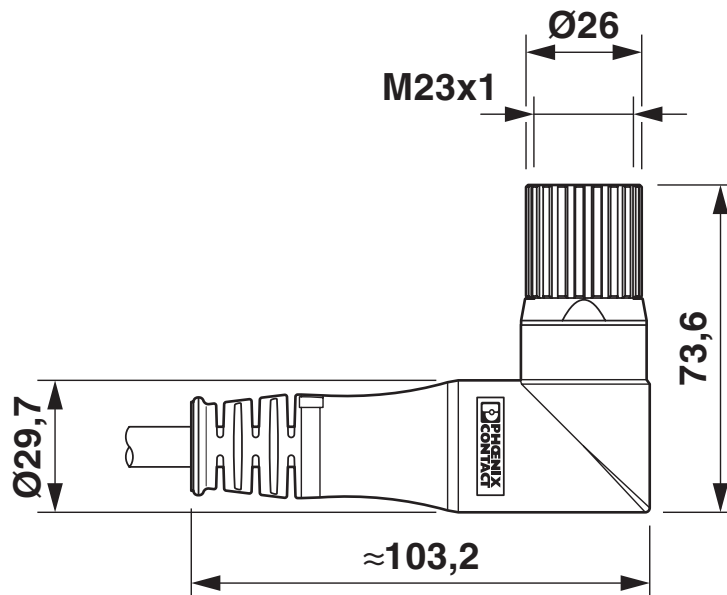
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## Drawings

Dimensional drawing



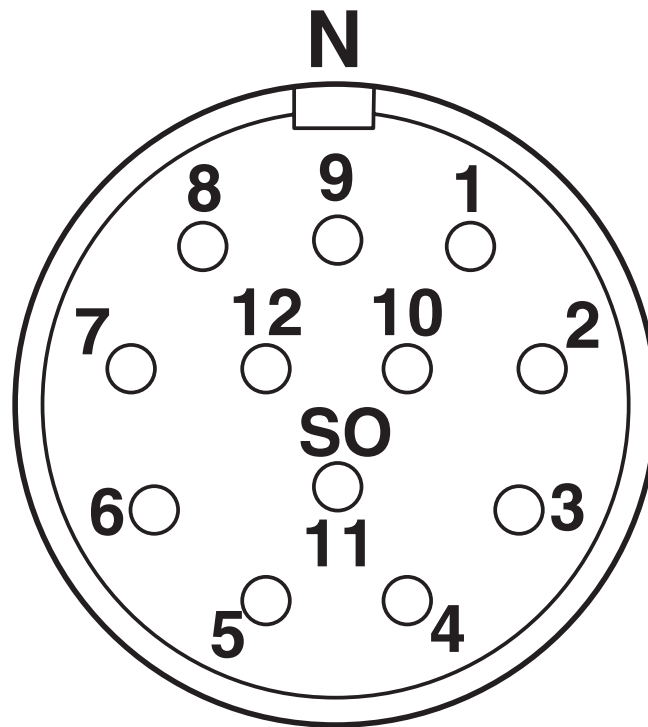
Dimensional drawing

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Schematic diagram



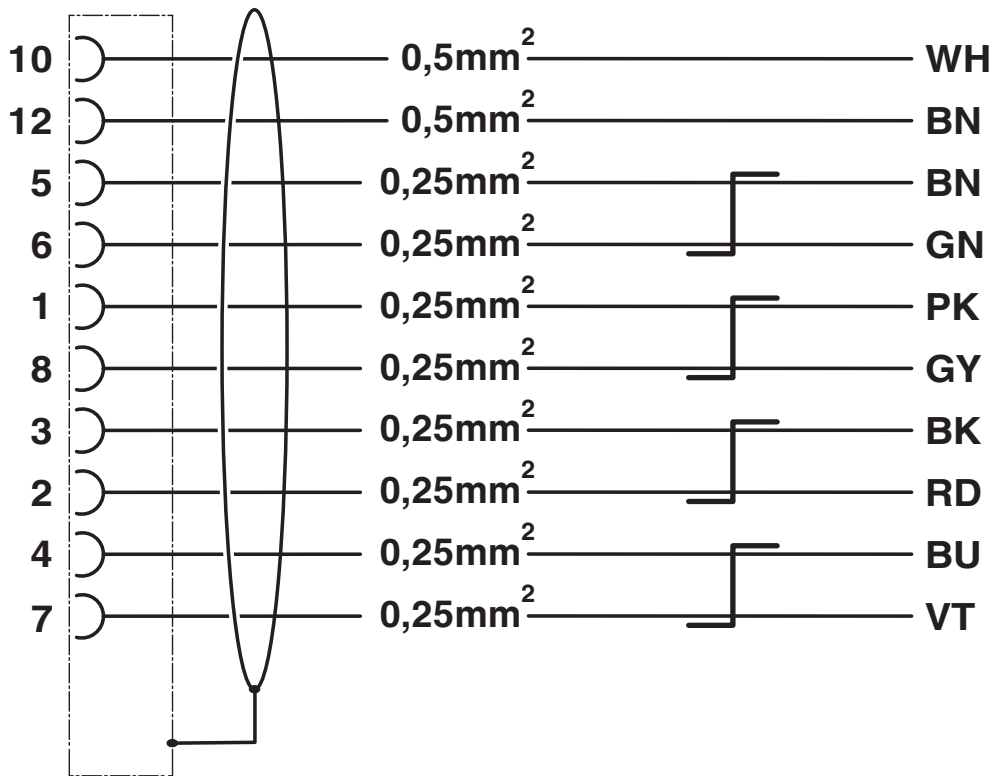
Connector pin assignment

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Circuit diagram



Contact assignment of M23 plugs/sockets

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## Approvals

To download certificates, visit the product detail page: <https://www.phoenixcontact.com/us/products/1619282>



**EAC**

Approval ID: 19060508



**UL Listed**

Approval ID: E335019-20140707

|        | Nominal voltage $U_N$ | Nominal current $I_N$ | Cross section AWG | Cross section $\text{mm}^2$ |
|--------|-----------------------|-----------------------|-------------------|-----------------------------|
| keine  |                       |                       |                   |                             |
| Power  | 48 V                  | 5 A                   | -                 | -                           |
| Signal | 48 V                  | 2 A                   | -                 | -                           |



**cUL Listed**

Approval ID: E335019-20140707

|        | Nominal voltage $U_N$ | Nominal current $I_N$ | Cross section AWG | Cross section $\text{mm}^2$ |
|--------|-----------------------|-----------------------|-------------------|-----------------------------|
| keine  |                       |                       |                   |                             |
| Power  | 48 V                  | 5 A                   | -                 | -                           |
| Signal | 48 V                  | 2 A                   | -                 | -                           |

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## Classifications

### ECLASS

|             |          |
|-------------|----------|
| ECLASS-13.0 | 27060106 |
| ECLASS-15.0 | 27060106 |

### ETIM

|           |          |
|-----------|----------|
| ETIM 10.0 | EC003250 |
|-----------|----------|

### UNSPSC

|             |          |
|-------------|----------|
| UNSPSC 21.0 | 26121600 |
|-------------|----------|

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## Environmental product compliance

### EU RoHS

|   |            |
|---|------------|
| Fulfills EU RoHS substance requirements | Yes        |
| Exemption                               | 6(b), 6(c) |

### China RoHS

|  |   |
|--|---|
| Environment friendly use period (EFUP) | EFUP-50   |
|  | An article-related China RoHS declaration table can be found in the download area for the respective article under "Manufacturer declaration". For all articles with EFUP-E, no China RoHS declaration table issued and required. |

### EU REACH SVHC

|                                     |                                      |
|-------------------------------------|--------------------------------------|
| REACH candidate substance (CAS No.) | Lead(CAS: 7439-92-1)                 |
| SCIP                                | 1aea4bcb-0c06-477c-8875-2233bde7ef56 |

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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)