

K-12-M23 M9/2,0-E00/M23 F8-N2 - Connector in molded plastic on both sides



1619289
<https://www.phoenixcontact.com/us/products/1619289>

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Connector in molded plastic on both sides, Straight, plastic molded, number of positions: 12, type of locking: Screw locking mechanism, Straight, plastic molded, number of positions: 12, type of locking: Screw locking mechanism, cable length: 2 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
- High flexibility: customer-specific assemblies and cable lengths can be supplied

Commercial data

| | |
|--------------------------------------|---------------|
| Item number | 1619289 |
| Packing unit | 1 pc |
| Minimum order quantity | 1 pc |
| Sales key | AB34 |
| Product key | ABRDFG |
| GTIN | 4046356835114 |
| Weight per piece (including packing) | 351.117 g |
| Weight per piece (excluding packing) | 351.117 g |
| Customs tariff number | 85444290 |
| Country of origin | DE |

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1619289

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Technical data

Product properties

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

Connector

Connector specifications

| | |
|---------------------------------|----------------------------|
| Type | Straight, plastic molded |
| 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 | Counter direction |
| Contact switching type | Socket |
| 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 |

Cable specifications

| | |
|---|--|
| Cable type | RSL9YSLC11Y |
| Shielded | yes |
| Cable structure | 4 x 2 x 0.25 mm ² + 2 x 0.5 mm ² |
| 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 |

Connector specifications (second page)

| | |
|------------------|--------------------------|
| Type | Straight, plastic molded |
| Housing material | Die-cast zinc |
| Type of locking | Screw locking mechanism |

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1619289

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| | |
|---------------------------------|----------------------------|
| Degree of protection | IP67, when in locked state |
| No. of pos. | 12 |
| Direction of rotation | Standard |
| Contact switching type | Pin |
| 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 | 2 m |
|--------------|-----|

K-12-M23 M9/2,0-E00/M23 F8-N2 - Connector in molded plastic on both sides

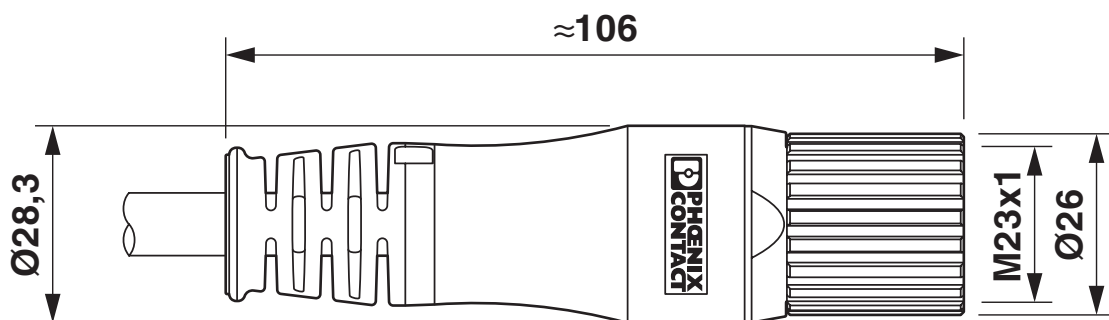


1619289

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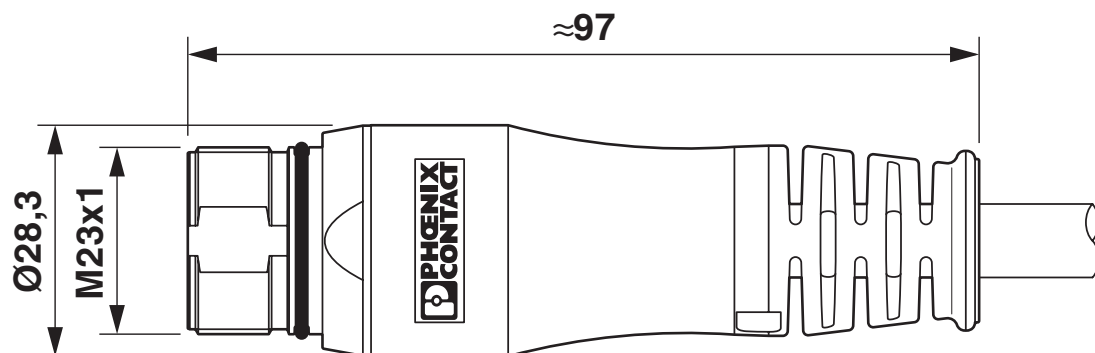
Drawings

Dimensional drawing



On the female side

Dimensional drawing



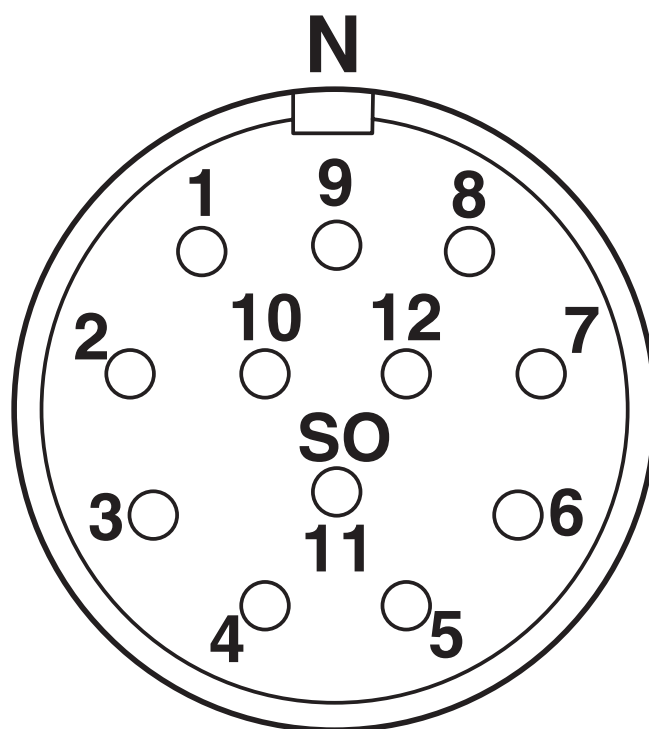
Pin side

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Schematic diagram



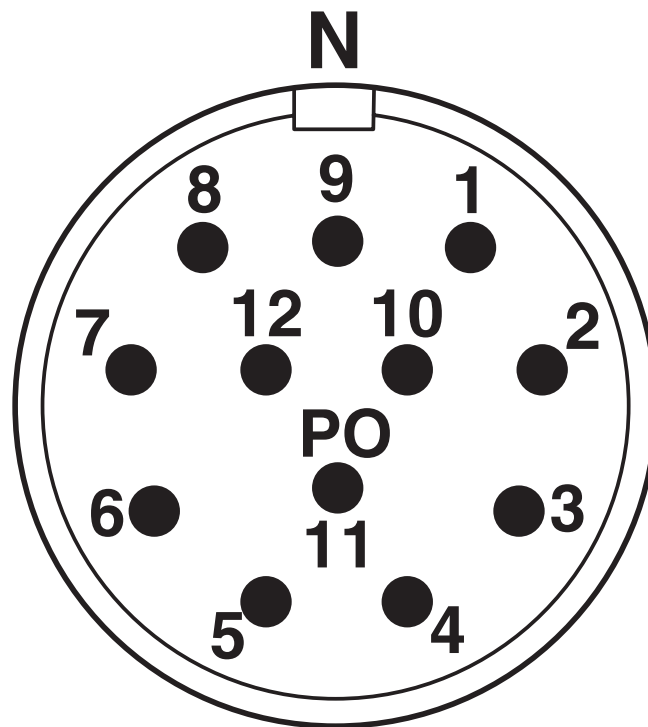
Socket pin assignment

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Schematic diagram



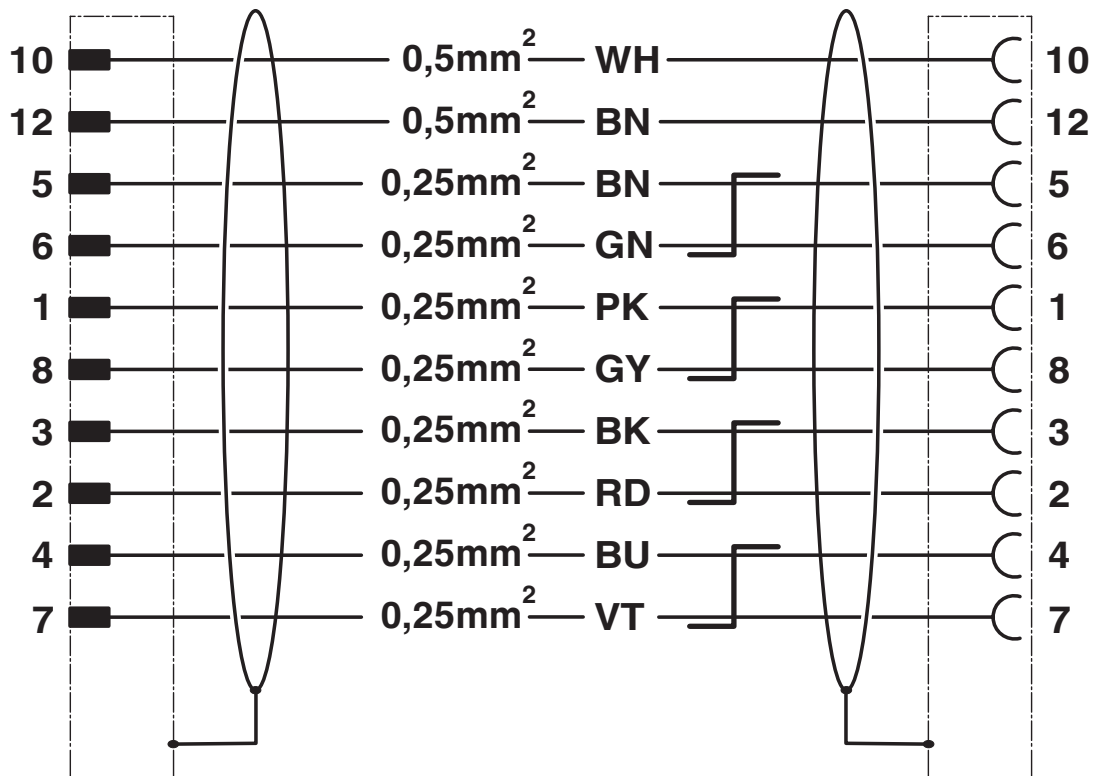
Pin assignment of pin

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Circuit diagram



Contact assignment of M23 plugs/sockets


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1619289
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Approvals

To download certificates, visit the product detail page: <https://www.phoenixcontact.com/us/products/1619289>

**EAC**
Approval ID: 19060508

|  UL Listed Approval ID: E335019-20140707 | | | | |
|---|-----------------------|-----------------------|-------------------|-----------------------------|
| | Nominal voltage U_N | Nominal current I_N | Cross section AWG | Cross section 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 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 9.0 | 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 | fd39f38e-5c3e-440a-bc3c-b689d6133af1 |

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