

# 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, application: Signal, Straight, plastic molded, number of positions: 12, type of locking: Screw locking mechanism, Straight, plastic molded, number of positions: 12, 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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## Technical data

### Product properties

Product type	Signal and power cable
Application	Signal

### 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

#### Connector specifications (second page)

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	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
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## Cable/line

Cable length	2 m
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### 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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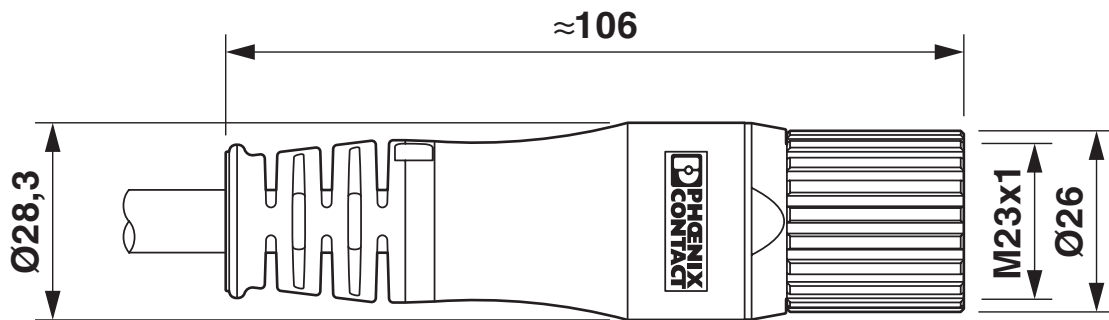


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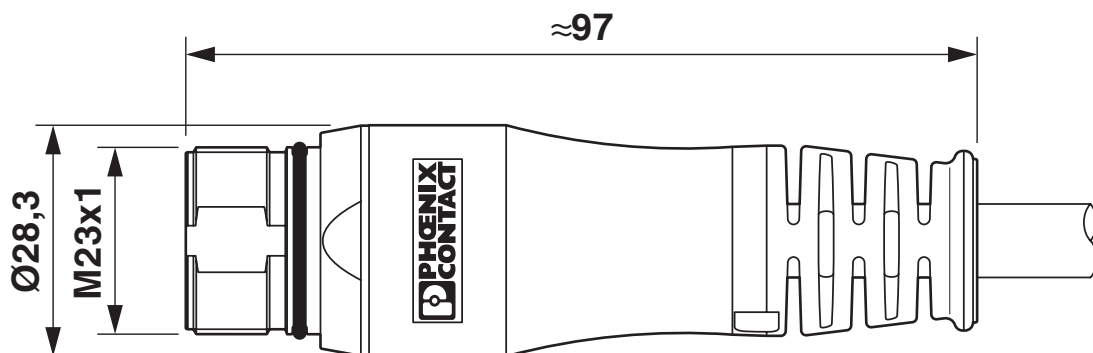
## Drawings

Dimensional drawing



On the female side

Dimensional drawing



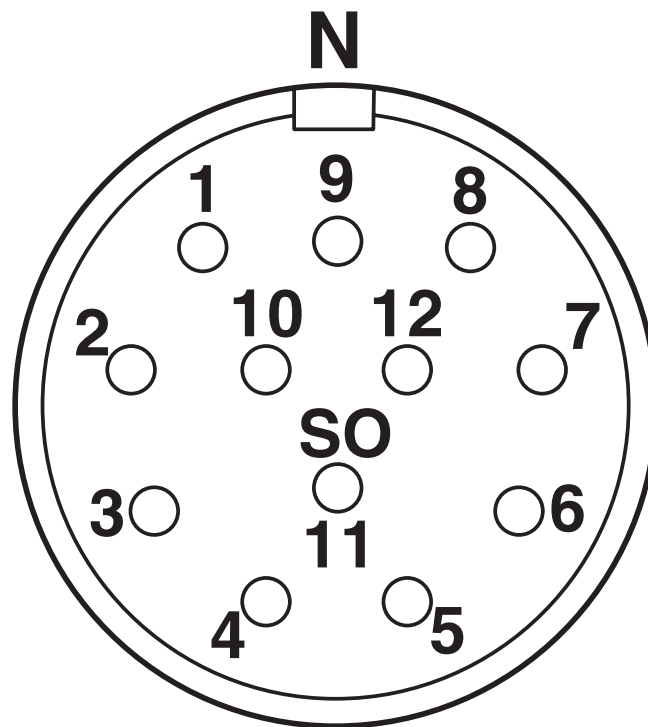
Pin side

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Schematic diagram



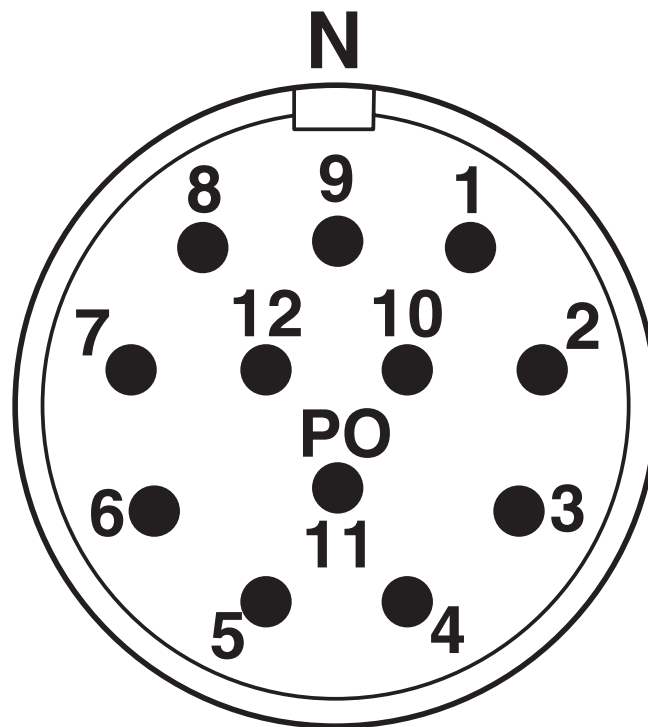
Socket pin assignment

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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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## 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 $\text{mm}^2$
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
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### 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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