

# K-7E-M23MM/3,0-D03/M23 FK - Connector in molded plastic on both sides



1627303

<https://www.phoenixcontact.com/us/products/1627303>

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Connector in molded plastic on both sides, series: KSF, M23-Pin, number of positions: 4+3+PE, type of locking: Screw locking mechanism, on M23-Socket, angled rotatable, -120° left/120° right, number of positions: 4+3+PE, cable length: 3 m, shielded: yes, color of outer sheath: orange RAL 2003

## Commercial data

Item number	1627303
Packing unit	1 pc
Minimum order quantity	1 pc
Note	Made to order (non-returnable)
Product key	ABRDEG
GTIN	4055626297897
Weight per piece (including packing)	948.44 g
Weight per piece (excluding packing)	948.44 g
Country of origin	DE

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## Technical data

### Product properties

Product type	Signal and power cable
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### Connector

#### Connector specifications

Thread type	M23
Type of locking	Screw locking mechanism
Degree of protection	IP67, when in locked state
No. of pos.	4+3+PE
Direction of rotation	Standard
Contact switching type	Pin
Insertion/withdrawal cycles	100
Contact resistance	< 0.3 mΩ
Voltage	630 V
Overvoltage category	III
Degree of pollution	3
Rated surge voltage	6 kV
Ambient temperature (operation)	-40 °C ... 105 °C

#### Connector specifications (second page)

Type	angled rotatable, -120° left/120° right
Thread type	M23
Type of locking	Screw locking mechanism
Degree of protection	IP67, when in locked state
No. of pos.	4+3+PE
Direction of rotation	Standard
Contact switching type	Socket
Insertion/withdrawal cycles	100
Contact resistance	< 0.3 mΩ
Voltage	630 V
Overvoltage category	III
Degree of pollution	3
Rated surge voltage	6 kV
Ambient temperature (operation)	-40 °C ... 105 °C

### Cable/line

Cable length	3 m
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#### Cable specifications

Cable type	PSLC11Y-J
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Shielded	yes
Cable structure	4 x 2.5 mm <sup>2</sup> + 2 x 2 x 1.0 mm <sup>2</sup> StC
External cable diameter	13.50 mm ±0.4 mm
Outer sheath, material	PUR
Material wire insulation	TPM
External sheath, color	orange RAL 2003
Nominal voltage, cable	1000 V
Test voltage	4 kV (2 kV signal)
Smallest bending radius, movable installation	135 mm
Max. bending cycles	10000000
Bending radius	135 mm
Traversing path	6 m
Acceleration	5 m/s <sup>2</sup>
Ambient temperature (operation) for fixed installation	-40 °C ... 80 °C
Ambient temperature (operation) for flexible installation	-20 °C ... 60 °C
Special properties	Flexible cable conduit capable
Flame resistance	IEC 332-1
Halogen-free	DIN VDE 0472

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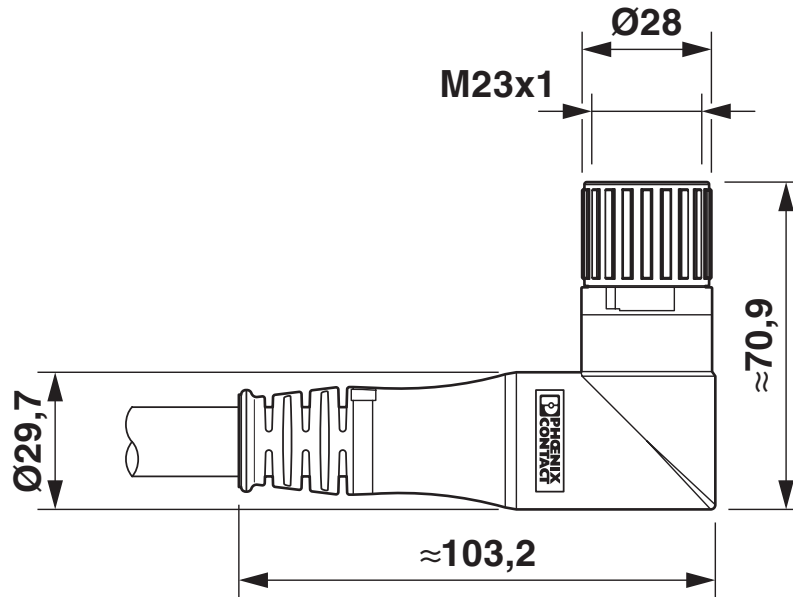


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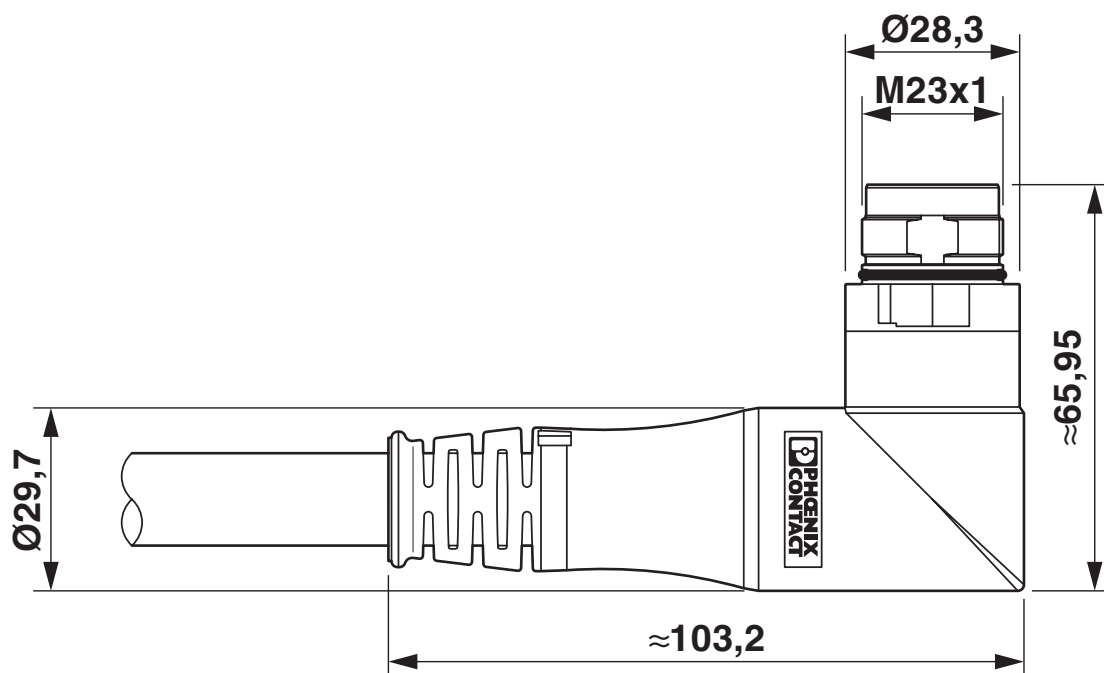
## Drawings

Dimensional drawing



On the female side

Dimensional drawing



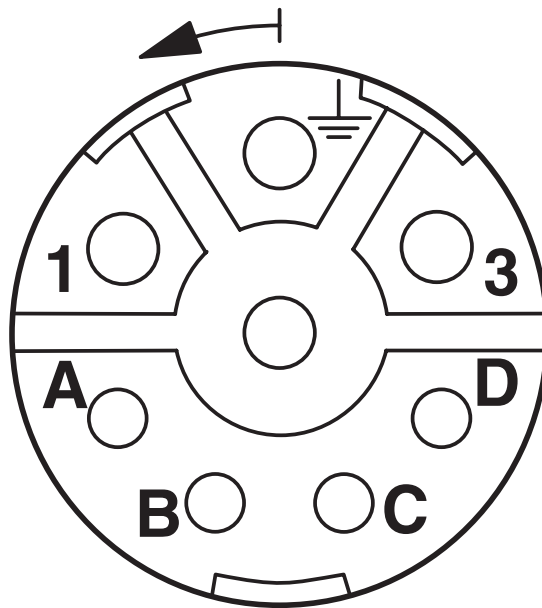
Pin side

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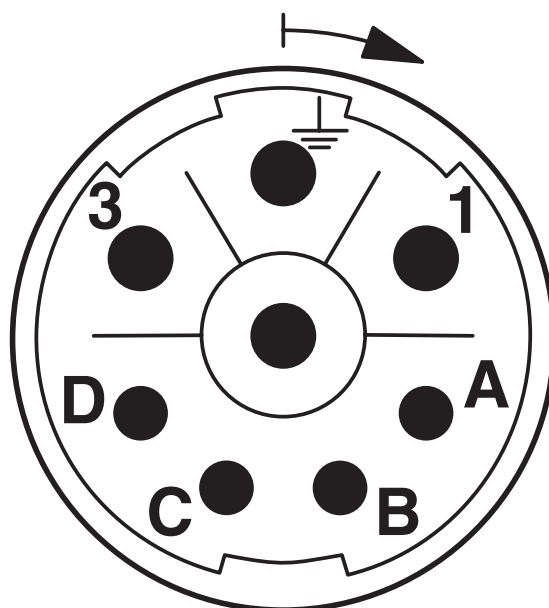
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Schematic diagram



Socket pin assignment

Schematic diagram



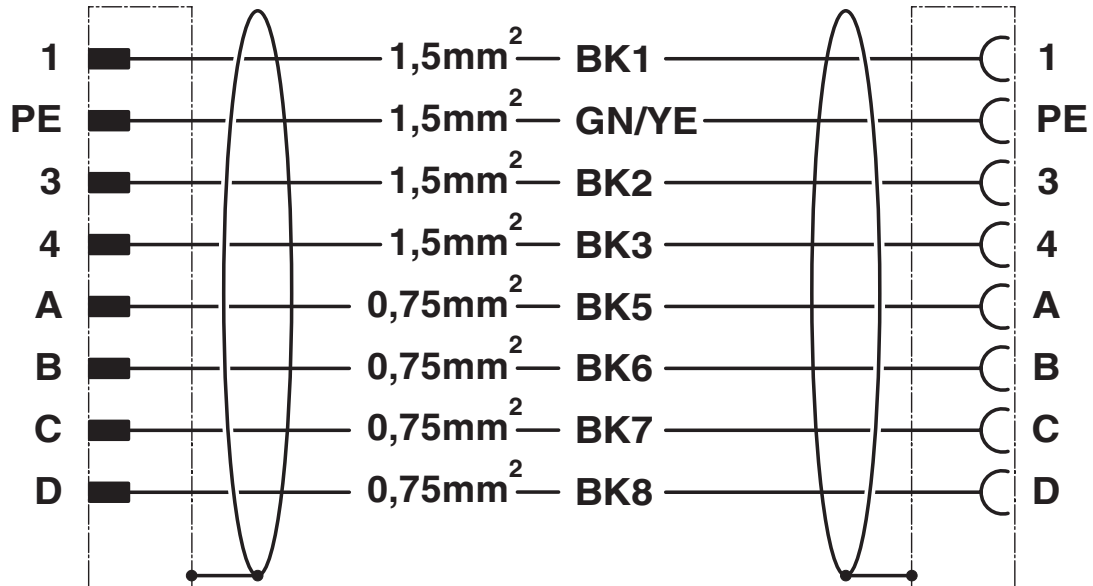
Pin assignment of pin

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Circuit diagram



Contact assignment of M23 plugs/sockets

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## Environmental product compliance

### 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.)	No substance above 0.1 wt%
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