

1629091

https://www.phoenixcontact.com/us/products/1629091

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M23, Device connector front mounting, series: M23 PRO Signal, straight, for standard and ONECLICK fast locking system, No. of pos.: 8+1, Direction of rotation: Standard, contact connection type: Socket, Crimp connection, 4x Ø 3.2, flange dimensions: 26 mm x 26 mm, coding: N, Item is lead-free in accordance with RoHS II without Exemption 6c (Pb <0.1%)

# Your advantages

- · Solutions with cross-manufacturer compatibility for standard and fast locking systems
- · Modern, consistent design for highly convenient operation
- · Crimping connection: vibration- and temperature-resistant assembly
- · All housing can be fitted with pin or socket contacts
- · Safe use in the field, thanks to high degree of protection

### Commercial data

Item number	1629091
Packing unit	1 pc
Minimum order quantity	1 pc
Sales key	AB34
Product key	ABRABL
GTIN	4055626763026
Weight per piece (including packing)	40.6 g
Weight per piece (excluding packing)	30.8 g
Customs tariff number	85366990
Country of origin	DE



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# Technical data

### Notes

General	Order crimp contacts 8 x Ø 1 mm, 1 x Ø 2 mm separately
General	Please observe the derating curve.
afety note	
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.
	<ul> <li>WARNING: Commission properly functioning products only.</li> <li>The products must be regularly inspected for damage.</li> <li>Decommission defective products immediately. Replace damaged products. Repairs are not possible.</li> </ul>
	<ul> <li>WARNING: Only electrically qualified personnel may install and operate the product. They must observe the following safety notes. 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.</li> </ul>
	<ul> <li>The products are suitable for applications in plant, controller, and electrical device engineering.</li> </ul>
	<ul> <li>When operating the connectors in outdoor applications, they must be separately protected against environmental influences.</li> </ul>
	<ul> <li>Assembled products may not be manipulated or improperly opened.</li> </ul>
	<ul> <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 phoenixcontact.com/products).</li> </ul>
	<ul> <li>When using the product in direct connection with third-party manufacturers, the user is responsible.</li> </ul>
	<ul> <li>For operating voltages &gt; 50 V AC, conductive connector housings must be grounded</li> </ul>
	<ul> <li>Ensure that the protective or functional ground has been properly connected.</li> </ul>
	<ul> <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>
	Only use tools recommended by Phoenix Contact
	<ul> <li>The installation notes/Design In documents online on the download page at phoenixcontact.com/products must be observed for this product.</li> </ul>
	<ul> <li>Operate the connector only when it is fully plugged in and interlocked.</li> </ul>
	<ul> <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>
	Observe the minimum bending radius of the cable. Lay the cable without twisting it.
	The connector warms up in normal operation. Depending on the ambient conditions, the surface of the connector can continue to



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Installation height

	warm up. In this case, the user is responsible for posting warnings (e.g. DIN EN ISO 13732-1:2008-12).
oduct properties	
Product type	Circular connectors (device side)
aterial specifications	
Flammability rating according to UL 94	V0
nnector	
nsulating body	
Note	Order information: Order crimp contacts 8 x Ø 1 mm, 1 x Ø 2 mn separately
Coding	N
Insulation body material	PA 6.6
Insertion/withdrawal cycles	100
Connection method	Crimp connection
Contact switching type	Socket
Application	Signal
Number of positions	9
Direction of rotation	Standard
Connection profile	8+1
Contact diameter Power contacts	2 mm
Litz wire cross-section Power contacts min.	0.5 mm²
Litz wire cross-section Power contacts max.	2.5 mm²
Rated current Power contacts	20 A
Note	for max. connection cross section
Rated voltage	300 V
Rated surge voltage	2.5 kV
Overvoltage category	II
Degree of pollution	3
Contact diameter Signal contacts	1 mm
Litz wire cross-section Signal contacts min.	0.08 mm²
Litz wire cross-section Signal contacts max.	1 mm²
Nominal current per signal contact	8 A
Note	for max. connection cross section
Rated voltage Signal contact	300 V
Rated surge voltage	2.5 kV
Overvoltage category	II
Degree of pollution	3

2000 m



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#### Housing

Housing material	GD-Zn
Flange dimensions	26 mm x 26 mm
Type of locking	for standard and ONECLICK fast locking system
Pg screw connection	none
Degree of protection (plugged in)	IP66 / IP68 (2 m / 24 h)
Thread type	M23

### Environmental and real-life conditions

# Ambient conditions

Degree of protection	IP68
Ambient temperature (operation)	-40 °C 105 °C (see to derating)
Altitude	2000 m
Permanent temperature	125 °C (DIN EN 60512-9-2 / 1000 h)

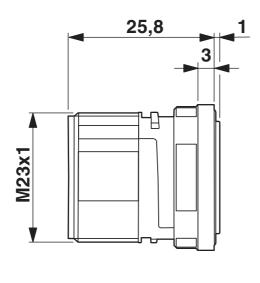


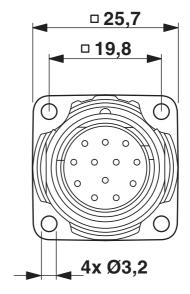
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# Drawings

# Dimensional drawing





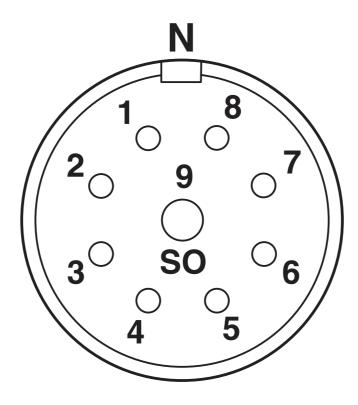
Technical drawings can be found under Downloads



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Schematic diagram

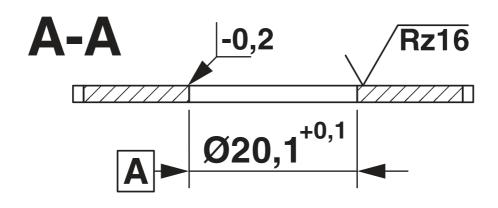


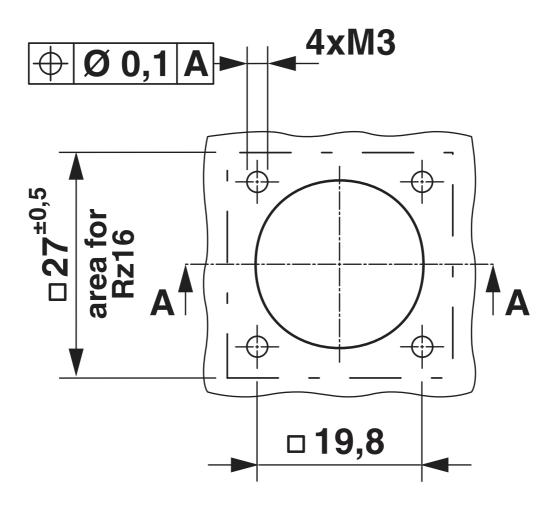


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# Dimensional drawing



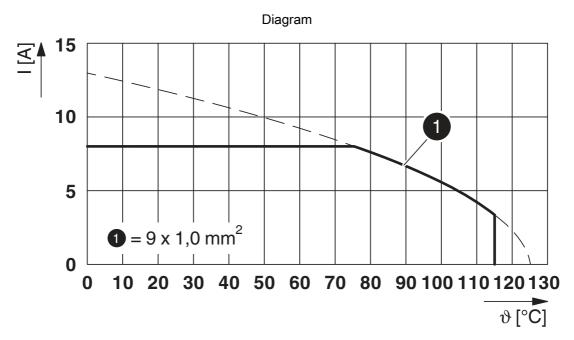


Installation dimensions



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I = current strength,  $\vartheta$  = ambient temperature, 9x 8 A



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# Classifications

### **ECLASS**

UNSPSC 21.0

	ECLASS-11.0	27440109
	ECLASS-12.0	27440109
	ECLASS-13.0	27440109
ETIM		
	ETIM 8.0	EC003569
UNSPSC		

39121400



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# Environmental product compliance

China RoHS	Environmentally friendly use period: unlimited = EFUP-e
	No hazardous substances above threshold values



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### Accessories

RC-Z2059 - Protective cap

1604225

https://www.phoenixcontact.com/us/products/1604225



Plastic protection cap for connectors with M23 external thread

### RC-Z2104 - Metal protective cap

1604260

https://www.phoenixcontact.com/us/products/1604260



Metal protective cap, M23, degree of protection: IP67, series: RC, Alternative product in accordance with RoHS II without Exemption 6c (Pb <0.1%) item no.: 1241739



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# RC-11S2000 - Crimp contact

1596772

https://www.phoenixcontact.com/us/products/1596772



Crimp contact, Socket, turned, Single contact, contact diameter: 1 mm, crimp range:  $0.08~\text{mm}^2$  ...  $0.22~\text{mm}^2$ , Alternative product in accordance with RoHS II without Exemption 6c (Pb <0.1%) item no.: 1241093

### RC-12S2000 - Crimp contact

1599600

https://www.phoenixcontact.com/us/products/1599600



Crimp contact, Socket, turned, Single contact, contact diameter: 1 mm, crimp range: 0.14 mm<sup>2</sup> ... 0.56 mm<sup>2</sup>, Alternative product in accordance with RoHS II without Exemption 6c (Pb <0.1%) item no.: 1241093



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### RC-1KS2000 - Crimp contact

1602998

https://www.phoenixcontact.com/us/products/1602998



Crimp contact, Socket, turned, Single contact, contact diameter: 1 mm, crimp range:  $0.5~\text{mm}^2~\dots~1~\text{mm}^2$ , Alternative product in accordance with RoHS II without Exemption 6c (Pb <0.1%) item no.: 1241572

### RC-22S2000 - Crimp contact

1603327

https://www.phoenixcontact.com/us/products/1603327



Crimp contact, Socket, rolled, Single contact, contact diameter: 1 mm, crimp range:  $0.22~\text{mm}^2$  ...  $0.56~\text{mm}^2$ , Single contact, Item is lead-free in accordance with RoHS II without Exemption 6c (Pb <0.1%)



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### RC-21S2000 - Crimp contact

1603315

https://www.phoenixcontact.com/us/products/1603315



Crimp contact, Socket, rolled, Single contact, contact diameter: 1 mm, crimp range:  $0.08~\text{mm}^2$  ...  $0.22~\text{mm}^2$ , Single contact

### RC-22S2300 - Crimp contact

1603330

https://www.phoenixcontact.com/us/products/1603330



Crimp contact, Socket, rolled, Taped articles, number of pieces per reel: 500, contact diameter: 1 mm, crimp range: 0.22 mm² ... 0.56 mm², Item is lead-free in accordance with RoHS II without Exemption 6c (Pb <0.1%)



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### RC-22S2400 - Crimp contact

1603332

https://www.phoenixcontact.com/us/products/1603332



Crimp contact, Socket, rolled, Taped articles, number of pieces per reel: 10000, contact diameter: 1 mm, crimp range: 0.22 mm<sup>2</sup> ... 0.56 mm<sup>2</sup>, Item is lead-free in accordance with RoHS II without Exemption 6c (Pb <0.1%)

### RC-21S2300 - Crimp contact

1603318

https://www.phoenixcontact.com/us/products/1603318



Crimp contact, Socket, rolled, Taped articles, number of pieces per reel: 500, contact diameter: 1 mm, crimp range:  $0.08~\text{mm}^2$  ...  $0.22~\text{mm}^2$ 



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### RC-21S2400 - Crimp contact

1616500

https://www.phoenixcontact.com/us/products/1616500



Crimp contact, Socket, rolled, Taped articles, number of pieces per reel: 10000, contact diameter: 1 mm, crimp range: 0.08  $\text{mm}^2\dots$  0.22  $\text{mm}^2$ 

### PROT-M23PRO-OT-IP20 - Plastic protective cap

1055753

https://www.phoenixcontact.com/us/products/1055753



Plastic protective cap, M23, degree of protection: IP20, series: M23 PRO



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### PROT-M23PRO-OT-IP67 - Plastic protective cap

1055749

https://www.phoenixcontact.com/us/products/1055749



Plastic protective cap, M23, degree of protection: IP67, series: M23 PRO Signal

### M23PRO-VIB-ORING-OR - Sealing ring

1521137

https://www.phoenixcontact.com/us/products/1521137

Vibration O-ring, optional accessory for M23 PRO device connectors





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### M23PRO-VIB-ORING-GN - Sealing ring

1521138

https://www.phoenixcontact.com/us/products/1521138

Vibration O-ring, optional accessory for M23 PRO device connectors



### RC-5SS2000 - Crimp contact

1603530

https://www.phoenixcontact.com/us/products/1603530



Crimp contact, Socket, turned, contact diameter: 2 mm, crimp range:  $0.5~\text{mm}^2$  ...  $0.75~\text{mm}^2$ , Alternative product in accordance with RoHS II without Exemption 6c (Pb <0.1%) item no.: 1241633



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### RC-59S2000 - Crimp contact

1603501

https://www.phoenixcontact.com/us/products/1603501



Crimp contact, Socket, turned, Single contact, contact diameter: 2 mm, crimp range:  $0.75~\text{mm}^2$  ... 1 mm<sup>2</sup>, Alternative product in accordance with RoHS II without Exemption 6c (Pb <0.1%) item no.: 1241633

### RC-5CS2000 - Crimp contact

1603517

https://www.phoenixcontact.com/us/products/1603517



Crimp contact, Socket, turned, contact diameter: 2 mm, crimp range: 1 mm $^2$  ... 1. 5 mm $^2$ , Alternative product in accordance with RoHS II without Exemption 6c (Pb <0.1%) item no.: 1241635



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RC-5AS2000 - Crimp contact

1603509

https://www.phoenixcontact.com/us/products/1603509



Crimp contact, Socket, turned, contact diameter: 2 mm, crimp range:  $1.5~\text{mm}^2$  ...  $2.5~\text{mm}^2$ , Alternative product in accordance with RoHS II without Exemption 6c (Pb <0.1%) item no.: 1241635

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