

#### 1629090

https://www.phoenixcontact.com/us/products/1629090

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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: Pin, 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	1629090
Packing unit	1 pc
Minimum order quantity	1 pc
Sales key	AB34
Product key	ABRABL
GTIN	4055626763019
Weight per piece (including packing)	39.2 g
Weight per piece (excluding packing)	38 g
Customs tariff number	85366990
Country of origin	DE



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# Technical data

Notes	
140105	

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.
	WARNING: Commission properly functioning products only. The products must be regularly inspected for damage. Decommission defective products immediately. Replace damaged products. Repairs are not possible.
	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 or 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.
	<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>
	Assembled products may not be manipulated or improperly opened.
	<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>
	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
	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>
	Operate the connector only when it is fully plugged in and interlocked.
	• Ensure that when laying the cable, the tensile load on the connectors does not exceed the upper limit specified in the standards.
	Observe the minimum bending radius of the cable. Lay the cable without twisting it.
	<ul> <li>The connector warms up in normal operation. Depending on the ambient conditions, the surface of the connector can continue to</li> </ul>



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Overvoltage category

Degree of pollution

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)
terial specifications	
Flammability rating according to UL 94	VO
nnector	
nsulating body	
Note	Order information: Order crimp contacts 8 x Ø 1 mm, 1 x Ø 2 mm separately
Coding	Ν
Insulation body material	PA 6.6
Insertion/withdrawal cycles	100
Connection method	Crimp connection
Contact switching type	Pin
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 mm <sup>2</sup>
Litz wire cross-section Power contacts max.	2.5 mm <sup>2</sup>
Rated current Power contacts	20 A
Note	for max. connection cross section
Rated voltage	300 V
Rated surge voltage	2.5 kV
Overvoltage category	Ш
Degree of pollution	3
Contact diameter Signal contacts	1 mm
Litz wire cross-section Signal contacts min.	0.08 mm <sup>2</sup>
Litz wire cross-section Signal contacts max.	1 mm <sup>2</sup>
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

П

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)

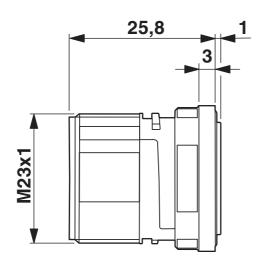


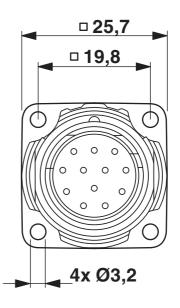
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## Drawings

Dimensional drawing





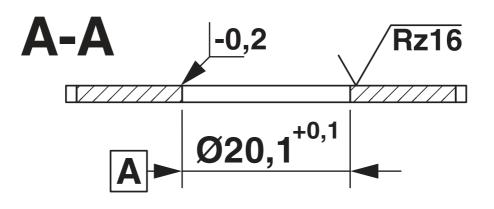
Technical drawings can be found under Downloads

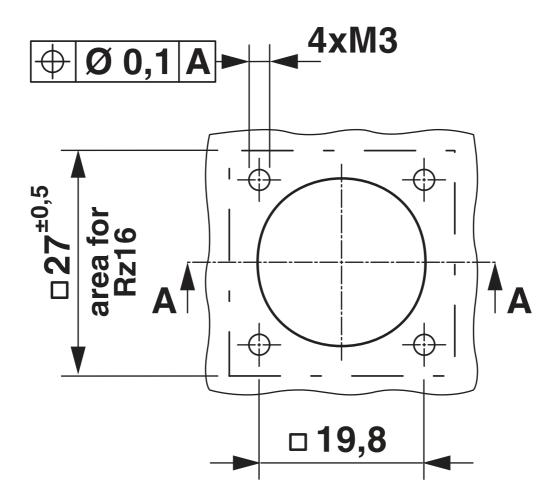


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Dimensional drawing





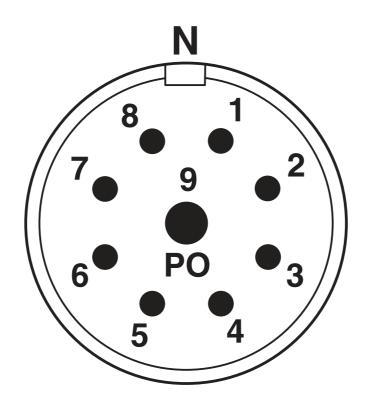
Installation dimensions



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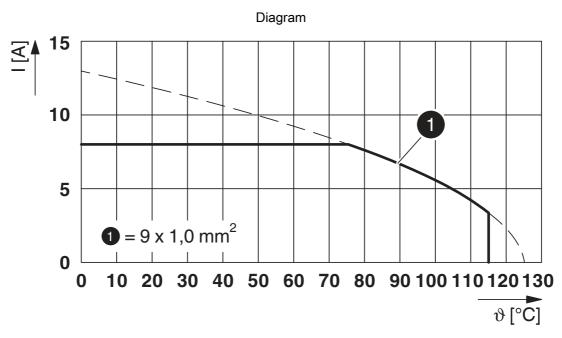
Schematic diagram





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I = current strength, θ = ambient temperature, 9x 8 A



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# Classifications

### ECLASS

ECLASS-11.0	27440109
ECLASS-12.0	27440109
ECLASS-13.0	27440109

### ETIM

	ETIM 8.0	EC003569
UNSPSC		
	UNSPSC 21.0	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-11P2000 - Crimp contact

#### 1596770

https://www.phoenixcontact.com/us/products/1596770



Crimp contact, Pin, turned, Single contact, contact diameter: 1 mm, crimp range: 0.08 mm<sup>2</sup> ... 0.22 mm<sup>2</sup>, Alternative product in accordance with RoHS II without Exemption 6c (Pb <0.1%) item no.: 1240882

### RC-12P2000 - Crimp contact

1597862 https://www.phoenixcontact.com/us/products/1597862



Crimp contact, Pin, 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.: 1240882



#### 1629090

https://www.phoenixcontact.com/us/products/1629090

RC-1KP2000 - Crimp contact

#### 1602996

https://www.phoenixcontact.com/us/products/1602996



Crimp contact, Pin, 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.: 1241571

### RC-22P2000 - Crimp contact

1603321 https://www.phoenixcontact.com/us/products/1603321



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



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RC-22P2300 - Crimp contact

### 1603324

https://www.phoenixcontact.com/us/products/1603324



Crimp contact, Pin, rolled, Taped articles, number of pieces per reel: 500, contact diameter: 1 mm, crimp range:  $0.22 \text{ mm}^2 \dots 0.56 \text{ mm}^2$ , Item is lead-free in accordance with RoHS II without Exemption 6c (Pb <0.1%)

### RC-22P2400 - Crimp contact

1603325 https://www.phoenixcontact.com/us/products/1603325



Crimp contact, Pin, rolled, Taped articles, number of pieces per reel: 10000, contact diameter: 1 mm, crimp range:  $0.22 \text{ mm}^2 \dots 0.56 \text{ mm}^2$ , Item is lead-free in accordance with RoHS II without Exemption 6c (Pb <0.1%)



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RC-21P2000 - Crimp contact

#### 1603310

https://www.phoenixcontact.com/us/products/1603310



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

#### RC-21P2300 - Crimp contact

1603313 https://www.phoenixcontact.com/us/products/1603313



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



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PROT-M23PRO-OT-IP20 - Plastic protective cap

#### 1055753

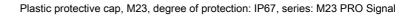
https://www.phoenixcontact.com/us/products/1055753



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

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

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







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https://www.phoenixcontact.com/us/products/1629090

M23PRO-VIB-ORING-OR - Sealing ring

#### 1521137

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

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



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

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

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





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RC-5SP2000 - Crimp contact

### 1603529

https://www.phoenixcontact.com/us/products/1603529



Crimp contact, Pin, turned, contact diameter: 2 mm, crimp range: 0.5 mm<sup>2</sup> ... 0. 75 mm<sup>2</sup>, Alternative product in accordance with RoHS II without Exemption 6c (Pb <0.1%) item no.: 1241632

### RC-59P2000 - Crimp contact

1603498 https://www.phoenixcontact.com/us/products/1603498



Crimp contact, Pin, turned, Single contact, contact diameter: 2 mm, crimp range:  $0.75 \text{ mm}^2 \dots 1 \text{ mm}^2$ , Alternative product in accordance with RoHS II without Exemption 6c (Pb <0.1%) item no.: 1241632



#### 1629090

https://www.phoenixcontact.com/us/products/1629090

RC-5CP2000 - Crimp contact

#### 1603513

https://www.phoenixcontact.com/us/products/1603513



Crimp contact, Pin, turned, contact diameter: 2 mm, crimp range: 1 mm<sup>2</sup> ... 1.5 mm<sup>2</sup>, Alternative product in accordance with RoHS II without Exemption 6c (Pb <0.1%) item no.: 1241634

#### RC-5AP2000 - Crimp contact

1603505 https://www.phoenixcontact.com/us/products/1603505



Crimp contact, Pin, turned, contact diameter: 2 mm, crimp range:  $1.5 \text{ mm}^2 \dots 2.5 \text{ mm}^2$ , Alternative product in accordance with RoHS II without Exemption 6c (Pb <0.1%) item no.: 1241634

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