1629120

https://www.phoenixcontact.com/us/products/1629120

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M23, Coupler connector, series: M23 PRO, straight, shielded: yes, for standard and ONECLICK fast locking system, No. of pos.: 8+1, Direction of rotation: Standard, contact connection type: Pin, Crimp connection, cable diameter range: 3 mm ... 15 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
- · Easy, cost-effective cable assembly: uniform shielding of M17 to M40

### Commercial data

Item number	1629120
Packing unit	1 pc
Minimum order quantity	1 pc
Sales key	AB34
Product key	ABRABG
GTIN	4055626762678
Weight per piece (including packing)	115.2 g
Weight per piece (excluding packing)	104.7 g
Customs tariff number	85366990
Country of origin	DE

1629120

https://www.phoenixcontact.com/us/products/1629120

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### Technical data

General	Order crimp contacts 8 x Ø 1 mm, 1 x Ø 2 mm separately
General	Please observe the derating curve.
fety note	
Safety note	WARNING: The connectors may not be plugged in or disconnected under load. Ignoring the warning or improper us 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 a operate the product. They must observe the following safety notes. The qualified personnel must be familiar with the basic electrical engineering. They must be able to recognize and prevent danger. The relevant symbol on the packaging indicat 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 influence</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>
	When using the product in direct connection with third-party manufacturers, the user is responsible.
	<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 are applicable when combining several circuits in a cable and/ 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>
	<ul> <li>Operate the connector only when it is fully plugged in and interlocked.</li> </ul>
	• 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 ambient conditions, the surface of the connector can continue</li> </ul>

#### 1629120

https://www.phoenixcontact.com/us/products/1629120

warm up. In this case, the user is responsible for posting warnings (e.g. DIN EN ISO 13732-1:2008-12).

#### Product properties

Product type

Type of locking

Circular connector (cable-side)

#### Connector

Note	Order information: Order crimp contacts 8 x Ø 1 mm, 1 x Ø 2 mr 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	II
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
Overvoltage category	II
Degree of pollution	3
Installation height	2000 m
using	
Housing material	GD-Zn

for standard and ONECLICK fast locking system



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Pg screw connection	none	
Degree of protection (plugged in)	IP66 / IP68 (2 m / 24 h)	
Thread type	M23	
Seal		
External cable diameter	3 mm 15 mm (Universal gasket)	
Seal material	FKM	

#### Environmental and real-life conditions

Ambient conditions	
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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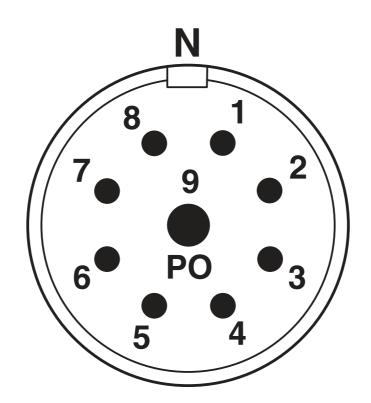
1629120

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Drawings

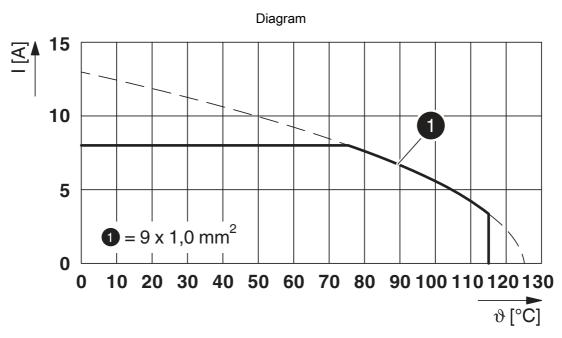
Schematic diagram





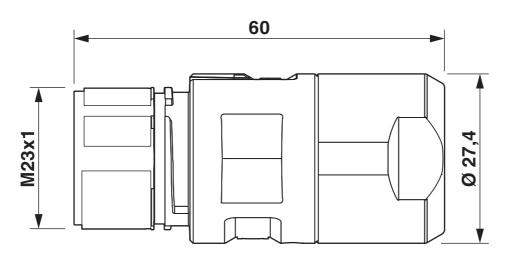
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I = current strength, θ = ambient temperature, 9x 8 A

Dimensional drawing



Dimensional drawing

1629120

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### Approvals

V: To download certificates, visit the product detail page: https://www.phoenixcontact.com/us/products/1629120





UL Recognized Approval ID: E335019-20141210

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### Classifications

#### ECLASS

ECLASS-11.0	27440102
ECLASS-12.0	27440116
ECLASS-13.0	27440116

#### ETIM

	ETIM 8.0	EC002635
UNSPSC		
	UNSPSC 21.0	39121400

1629120

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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

#### FLANGE-M23PRO-SG - Square mounting flange

1055767 https://www.phoenixcontact.com/us/products/1055767

Square mounting flange, Axial seal, 4xM3



#### RC-11P2000 - Crimp contact

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



Crimp contact, Pin, turned, Single contact, contact diameter: 1 mm, crimp range:  $0.08 \text{ mm}^2 \dots 0.22 \text{ mm}^2$ , Alternative product in accordance with RoHS II without Exemption 6c (Pb <0.1%) item no.: 1240882

1629120

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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

#### 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

1629120

https://www.phoenixcontact.com/us/products/1629120



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 mm<sup>2</sup> ... 0.56 mm<sup>2</sup>, Single contact, Item is lead-free in accordance with RoHS II without Exemption 6c (Pb <0.1%)

#### 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 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%)

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https://www.phoenixcontact.com/us/products/1629120



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 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-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

1629120

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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  $\rm mm^2$  ... 0.22  $\rm mm^2$ 

#### RC-21P2400 - Crimp contact

1611637 https://www.phoenixcontact.com/us/products/1611637



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

1629120

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

#### 1055753

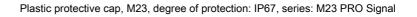
https://www.phoenixcontact.com/us/products/1055753



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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1629120

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### 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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https://www.phoenixcontact.com/us/products/1629120



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

1629120

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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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