

1629096

https://www.phoenixcontact.com/us/products/1629096

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M23, Coupler connector, series: M23 PRO, straight, shielded: yes, for standard and ONECLICK fast locking system, No. of pos.: 16+2+PE, 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	1629096
Packing unit	1 pc
Minimum order quantity	1 pc
Sales key	AB30
Product key	ABRABG
GTIN	4055626762333
Weight per piece (including packing)	115.5 g
Weight per piece (excluding packing)	115.5 g
Customs tariff number	85366990
Country of origin	DE



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Technical data

Notes

General	Order crimp contacts 16 x Ø 1 mm, 2 x Ø 1.5 mm, 1 x Ø 1.5 (PE 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 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 ar operate the product. They must observe the following safety notes. The qualified personnel must be familiar with the basics electrical engineering. They must be able to recognize and prevent danger. The relevant symbol on the packaging indicate that only personnel familiar with electrical engineering are allowed to install and operate the product.
	• The products are suitable for applications in plant, controller, and electrical device engineering.
	 When operating the connectors in outdoor applications, they must be separately protected against environmental influences
	 Assembled products may not be manipulated or improperly opened.
	 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).
	 When using the product in direct connection with third-party manufacturers, the user is responsible.
	 For operating voltages > 50 V AC, conductive connector housings must be grounded
	Ensure that the protective or functional ground has been properly connected.
	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/c connector
	 Only use tools recommended by Phoenix Contact
	 The installation notes/Design In documents online on the download page at phoenixcontact.com/products must be observed for this product.
	 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.
	The connector warms up in normal operation. Depending on tl



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	ambient conditions, the surface of the connector can continue to warm up. In this case, the user is responsible for posting warnings (e.g. DIN EN ISO 13732-1:2008-12).
duct properties	
Product type	Circular connector (cable-side)
nector	
sulating body	
Note	Order information: Order crimp contacts 16 x Ø 1 mm, 2 x Ø 1. mm, 1 x Ø 1.5 (PE) separately
Coding	N
Insulation body material	PA 6.6
Insertion/withdrawal cycles	100
Connection method	Crimp connection
Contact switching type	Pin
Application	Signal
Number of positions	19
Direction of rotation	Standard
Connection profile	16+2+PE
Contact diameter Power contacts	1.5 mm
Litz wire cross-section Power contacts min.	0.08 mm²
Litz wire cross-section Power contacts max.	1 mm²
Rated current Power contacts	10 A
Note	for max. connection cross section
Rated voltage	150 V
Rated surge voltage	1.5 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	150 V
Overvoltage category	II
Degree of pollution	3
Installation height	2000 m
ousing	
Housing material	GD-Zn
Type of locking	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)

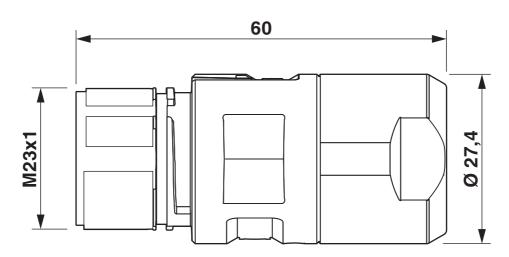


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Drawings

Dimensional drawing



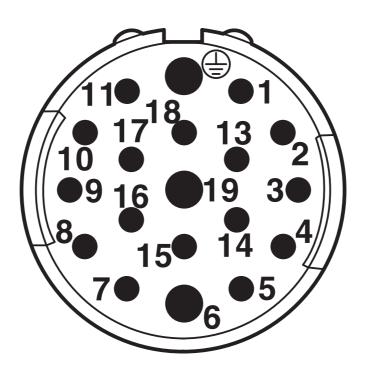
Dimensional drawing



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Schematic diagram

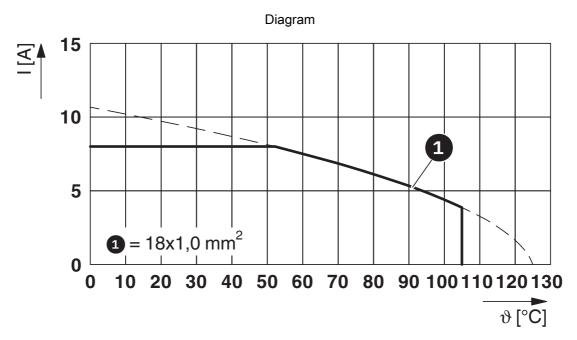


Connector pin assignment



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I = current strength, ϑ = ambient temperature, 18x 8 A



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Approvals

To download certificates, visit the product detail page: https://www.phoenixcontact.com/us/products/1629096



cUL Recognized

Approval ID: E335019-20141210



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cULus Recognized



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Classifications

UNSPSC 21.0

ECLASS

ECLASS-11.0	27440102
ECLASS-12.0	27440116
ECLASS-13.0	27440116
ETIM	
ETIM 9.0	EC002635
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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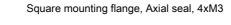
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Accessories

FLANGE-M23PRO-SG - Square mounting flange

1055767

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





RC-15P2000 - Crimp contact

1623779

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Crimp contact, Pin, turned, contact diameter: 1.5 mm, crimp range: $0.5~\text{mm}^2$... 1 mm², Alternative product in accordance with RoHS II without Exemption 6c (Pb <0.1%) item no.: 1244973



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RC-15P2010 - Crimp contact

1623776

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Crimp contact, Pin, turned, 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.: 1244971

RC-15P2020 - Crimp contact

1623777

https://www.phoenixcontact.com/us/products/1623777



Crimp contact, Pin, turned, contact diameter: 1 mm, crimp range: $0.14~\text{mm}^2$... $0.56~\text{mm}^2$, Alternative product in accordance with RoHS II without Exemption 6c (Pb <0.1%) item no.: 1244971



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RC-15P2030 - Crimp contact

1623778

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Crimp contact, Pin, turned, 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.: 1244972

RC-15P2100 - Crimp contact

1623780

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Crimp contact, Pin, leading, turned, contact diameter: 1.5 mm, crimp range: 0.5 mm 2 ... 1 mm 2 , Alternative product in accordance with RoHS II without Exemption 6c (Pb <0.1%) item no.: 1244974



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RC-15P2200 - Crimp contact

1627292

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Crimp contact, Pin, turned, contact diameter: 1.5 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.: 1245475

RC-15P2300 - Crimp contact

1627291

https://www.phoenixcontact.com/us/products/1627291



Crimp contact, Pin, turned, contact diameter: 1.5 mm, crimp range: $0.14~\text{mm}^2$... $0.56~\text{mm}^2$, Alternative product in accordance with RoHS II without Exemption 6c (Pb <0.1%) item no.: 1245475



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PROT-M23PRO-OT-IP20 - Plastic protective cap

1055753

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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



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



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M23PRO-VIB-ORING-OR - Sealing ring

1521137

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



M23PRO-VIB-ORING-GN - Sealing ring

1521138

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



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