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Cable connector, M23 PRO, straight, shielded: yes, Screw locking, M23, No. of pos.: 8+1, type of contact: Socket, Crimp connection, cable diameter range: 3 mm ... 15 mm, coding:N

Your advantages

- Solutions with cross-manufacturer compatibility for standard and fast locking systems
- Reliable under the harshest conditions: cable connectors with vibration brake
- Modern, consistent design for highly convenient operation



Key Commercial Data

Packing unit	1 pc
GTIN	4 055626 618531
GTIN	4055626618531
Weight per Piece (excluding packing)	100.000 g
Custom tariff number	85366990
Country of origin	Germany

Technical data

Temperature range

Temperature range	-40 °C 125 °C

Standards and Regulations

	WARNING: The connectors may not be plugged in or disconnected under
Safety note	load. Ignoring the warning or improper use may damage persons and/or
	property.



Technical data

Standards and Regulations

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 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.
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 § 14.1.3 are applicable when combining several circuits in a cable and/or 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 the 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).

Data of the insulating body

Note	Order information: Order crimp contacts 8 x Ø 1 mm, 1 x Ø 2 mm separately	
Coding	N	
Insulator material	PA 6.6	
Contact connection method	Crimp connection	
Type of contacts	Socket	



Technical data

Data of the insulating body

Application	Signal		
Number of positions	9		
Direction of rotation	Standard		
Contact diameter of power contacts	2 mm		
Litz wire cross section of power contacts min.	0.5 mm²		
Litz wire cross section of power contacts max.	2.5 mm ²		
Rated current for 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 of signal contacts	1 mm		
Litz wire cross section of signal contacts min.	0.08 mm²		
Litz wire cross section of signal contacts max.	1 mm²		
Nominal current per signal contact	8 A		
Note	for max. connection cross section		
Rated voltage of signal contact	300 V		
Rated surge voltage	2.5 kV		
Overvoltage category	II II		
Degree of pollution	3		
Note	for max. connection cross section		
Installation height	2000 m		

Housing data

Housing material	GD-Zn
Type of locking	Screw locking
Degree of protection (when plugged in)	IP66 / IP68 (2 m / 24 h)
Thread type	M23

Cable seal data

Cable diameter	3 mm 15 mm (Universal gasket)
Sealing material	FKM

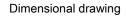
Environmental Product Compliance

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

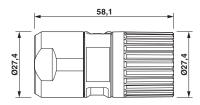
Drawings



Schematic diagram

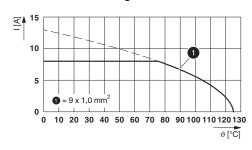






Technical drawings can be found under Downloads

Diagram



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

Classifications

eCl@ss

eCl@ss 10.0.1	27440102
eCl@ss 11.0	27440102
eCl@ss 9.0	27440102

ETIM

ETIM 6.0	EC002061
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Approvals

Approvals

Approvals

UL Recognized / cUL Recognized / cULus Recognized

Ex Approvals



Approvals

Approval details

UL Recognized	<i>7</i> 1	http://database.ul.com/cgi-bin/XYV/template/LISEXT/1FRAME/index.htm		E335019-20141210
Nominal voltage UN			300 V	
Nominal current IN			6 A	
mm²/AWG/kcmil			20	

cUL Recognized	. 71	http://database.ul.com/cgi-bin/XYV/template/LISEXT/1FRAME/index.htm		E335019-20141210
Nominal voltage UN			300 V	
Nominal current IN			4 A	
mm²/AWG/kcmil			20	

cULus Recognized CSUUS

Accessories

Accessories

Circular connectors (device side)

Hook wrench - SF-Z0027 - 1607455



Hook wrench

Crimp contact



Accessories

Crimp contact - RC-11S2000 - 1596772



Crimp contact, turned, Single contact, contact diameter: 1 mm, crimp range: 0.08 mm² ... 0.22 mm²

Crimp contact - RC-12S2000 - 1599600



Crimp contact, turned, Single contact, contact diameter: 1 mm, crimp range: 0.14 mm² ... 0.56 mm²

Crimp contact - RC-1KS2000 - 1602998



Crimp contact, turned, Single contact, contact diameter: 1 mm, crimp range: 0.5 mm² ... 1 mm²

Crimp contact - RC-22S2000 - 1603327



 $Crimp\ contact,\ rolled,\ Single\ contact,\ contact\ diameter:\ 1\ mm,\ crimp\ range:\ 0.22\ mm^2\ ...\ 0.56\ mm^2,\ Single\ contact$

Crimp contact - RC-21S2000 - 1603315



Crimp contact, rolled, Single contact, contact diameter: 1 mm, crimp range: 0.08 mm² ... 0.22 mm², Single contact



Accessories

Crimp contact - RC-22S2300 - 1603330



Crimp contact, rolled, Taped articles, number of pieces per reel: 500, contact diameter: 1 mm, crimp range: 0.22 mm² ... 0.56 mm²

Crimp contact - RC-22S2400 - 1603332



Crimp contact, rolled, number of pieces per reel: 10000, contact diameter: 1 mm, crimp range: 0.22 mm² ... 0.56 mm²

Crimp contact - RC-21S2300 - 1603318



Crimp contact, rolled, Taped articles, number of pieces per reel: 500, contact diameter: 1 mm, crimp range: 0.08 mm² ... 0.22 mm²

Crimp contact - RC-21S2400 - 1616500



Crimp contact, rolled, number of pieces per reel: 10000, contact diameter: 1 mm, crimp range: 0.08 mm² ... 0.22 mm²

Crimp contact - RC-5SS2000 - 1603530



Crimp contact, turned, contact diameter: 2 mm, crimp range: 0.5 mm² ... 0.75 mm²



Accessories

Crimp contact - RC-59S2000 - 1603501



Crimp contact, turned, contact diameter: 2 mm, crimp range: 0.75 mm² ... 1 mm²

Crimp contact - RC-5CS2000 - 1603517



Crimp contact, turned, contact diameter: 2 mm, crimp range: 1 mm² ... 1.5 mm²

Crimp contact - RC-5AS2000 - 1603509



Crimp contact, turned, contact diameter: 2 mm, crimp range: 1.5 mm² ... 2.5 mm²

Mounting material

Torque screwdriver - SF-Z0028 - 1607456



Torque screwdriver

Special wrench - RF-Z0007 - 1614347



Special wrench



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