

M23-09P1N8A80DUS - Cable connector

1629168

<https://www.phoenixcontact.com/us/products/1629168>



Please be informed that the data shown in this PDF document is generated from our online catalog. Please find the complete data in the user documentation. Our general terms of use for downloads are valid.



M23, Cable connector, series: M23 PRO, straight, shielded: yes, 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
- ONECLICK fast locking system with an optically, haptically, and acoustically clear locking position
- Reliable under the harshest conditions: cable connectors with vibration brake
- Modern, consistent design for highly convenient operation
- Easy, cost-effective cable assembly: uniform shielding of M17 to M40

Commercial data

Item number	1629168
Packing unit	1 pc
Minimum order quantity	1 pc
Sales key	AB30
Product key	ABRABB
GTIN	4055626618012
Weight per piece (including packing)	115 g
Weight per piece (excluding packing)	99.265 g
Customs tariff number	85366990
Country of origin	DE

M23-09P1N8A80DUS - Cable connector

1629168

<https://www.phoenixcontact.com/us/products/1629168>



Technical data

Notes

Order information:	Order crimp contacts 8 x Ø 1 mm, 1 x Ø 2 mm separately
--------------------	--

Product properties

Product type	Circular connector (cable-side)
--------------	---------------------------------

Connector

Insulating body

Note	Order information: Order crimp contacts 8 x Ø 1 mm, 1 x Ø 2 mm separately
Coding	N
Material (Insulating body)	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
Installation height	2000 m
Number Contact (Contact group 1)	1
Diameter Contact (Contact group 1)	2 mm
Litz wire cross-section min. Contact (Contact group 1)	0.5 mm ²
Litz wire cross-section max. Contact (Contact group 1)	2.5 mm ²
Rated current Contact (Contact group 1)	20 A (for max. connection cross section)
Rated voltage Contact (Contact group 1)	300 V
Rated surge voltage	2.5 kV
Overshoot category	II
Degree of pollution	3
Number Contact (Contact group 2)	8
Diameter Contact (Contact group 2)	1 mm
Litz wire cross-section min. Contact (Contact group 2)	0.08 mm ²
Litz wire cross-section max. Contact (Contact group 2)	1 mm ²
Rated current Contact (Contact group 2)	8 A (for max. connection cross section)
Rated voltage Contact (Contact group 2)	300 V
Rated surge voltage	2.5 kV
Overshoot category	II
Degree of pollution	3

Housing

Type	Cable connector housing
Thread type	M23

M23-09P1N8A80DUS - Cable connector

1629168

<https://www.phoenixcontact.com/us/products/1629168>



Design	straight
Type of locking	ONECLICK fast locking system
Pg screw connection	none
Material (Housing)	GD-Zn
Degree of protection (plugged in)	IP66/IP68 (2 m / 24 h) IP69K

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)
Permissible humidity (storage/transport)	50 % ... 65 %
Permanent temperature	125 °C (DIN EN 60512-9-2 / 1000 h)

M23-09P1N8A80DUS - Cable connector

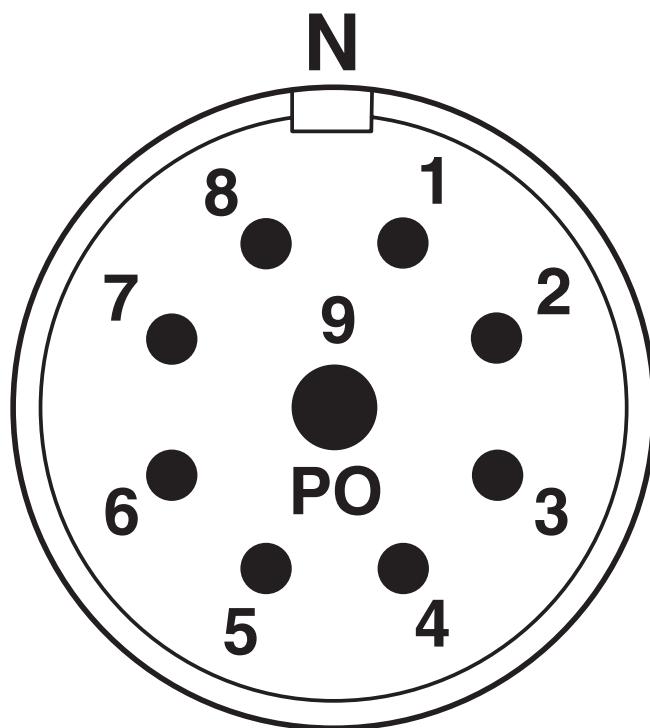
1629168

<https://www.phoenixcontact.com/us/products/1629168>



Drawings

Schematic diagram



Connector pin assignment

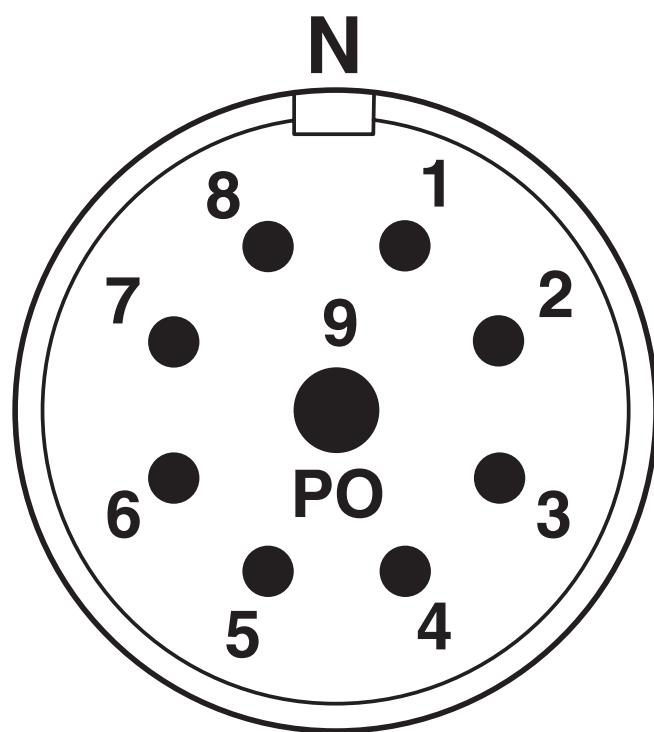
M23-09P1N8A80DUS - Cable connector

1629168

<https://www.phoenixcontact.com/us/products/1629168>



Schematic diagram



Connector pin assignment

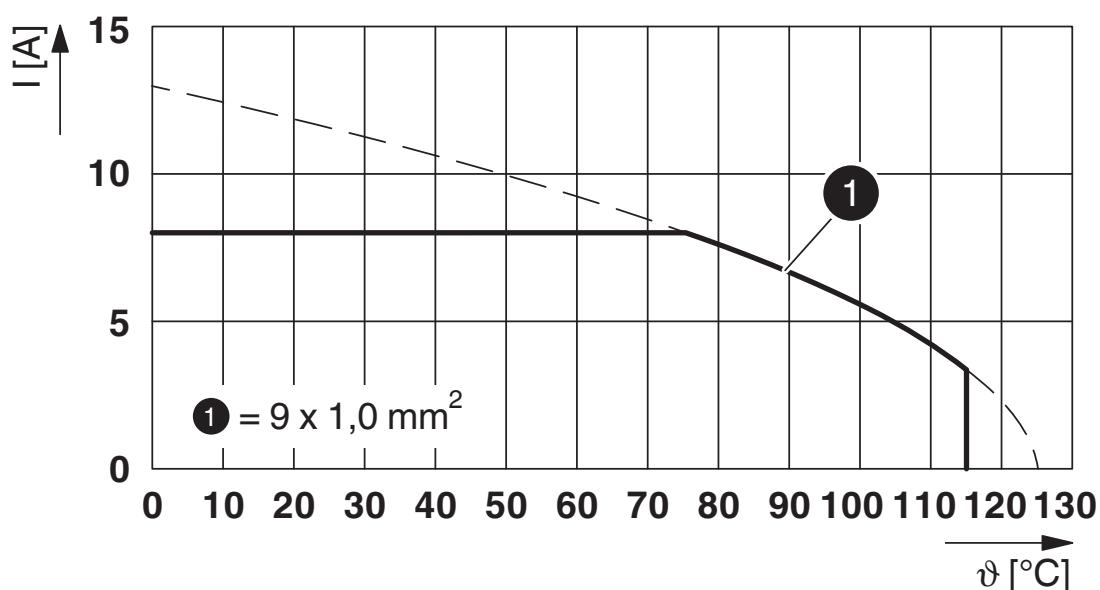
M23-09P1N8A80DUS - Cable connector

1629168

<https://www.phoenixcontact.com/us/products/1629168>



Diagram



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

M23-09P1N8A80DUS - Cable connector

1629168

<https://www.phoenixcontact.com/us/products/1629168>



Approvals

ⓘ To download certificates, visit the product detail page: <https://www.phoenixcontact.com/us/products/1629168>



cUL Recognized

Approval ID: E335019-20141210



UL Recognized

Approval ID: E335019-20141210

M23-09P1N8A80DUS - Cable connector

1629168

<https://www.phoenixcontact.com/us/products/1629168>



Classifications

ECLASS

ECLASS-13.0	27440116
ECLASS-15.0	27440116

ETIM

ETIM 9.0	EC002635
----------	----------

UNSPSC

UNSPSC 21.0	39121400
-------------	----------

M23-09P1N8A80DUS - Cable connector

1629168

<https://www.phoenixcontact.com/us/products/1629168>



Environmental product compliance

EU RoHS

Fulfills EU RoHS substance requirements	Yes, No exemptions
---	--------------------

China RoHS

Environment friendly use period (EFUP)	EFUP-E
	No hazardous substances above the limits

EU REACH SVHC

REACH candidate substance (CAS No.)	No substance above 0.1 wt%
-------------------------------------	----------------------------

Phoenix Contact 2025 © - all rights reserved

<https://www.phoenixcontact.com>

Phoenix Contact USA
586 Fulling Mill Road
Middletown, PA 17057, United States
(+717) 944-1300
info@phoenixcon.com