

M23-12S1N8A8004 - Cable connector



1629213

<https://www.phoenixcontact.com/pc/products/1629213>

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, Screw locking mechanism, No. of pos.: 12, Direction of rotation: Standard, contact connection type: Socket, Crimp connection, cable diameter range: 9 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
- 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	1629213
Packing unit	1 pc
Minimum order quantity	1 pc
Product key	ABRABA
Catalog page	Page 76 (C-2-2019)
GTIN	4055626618463
Weight per piece (including packing)	115.3 g
Weight per piece (excluding packing)	95.25 g
Customs tariff number	85366990
Country of origin	DE

M23-12S1N8A8004 - Cable connector



1629213

<https://www.phoenixcontact.com/pc/products/1629213>

Technical data

Notes

Order information:	Order 12 x 1 mm crimp contacts separately
Safety 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 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

M23-12S1N8A8004 - Cable connector



1629213

<https://www.phoenixcontact.com/pc/products/1629213>

warnings (e.g. DIN EN ISO 13732-1:2008-12).

Mounting

Thread type	()
-------------	----

Product properties

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

Data management status

Article revision	06
------------------	----

Connector

Connection 1

Head design	Socket
-------------	--------

Insulating body

Note	Order information: Order crimp contacts Ø 1 mm separately
------	---

Coding	N
--------	---

Insulation body material	PA 6.6
--------------------------	--------

Insertion/withdrawal cycles	100
-----------------------------	-----

Connection method	Crimp connection
-------------------	------------------

Contact switching type	Socket
------------------------	--------

Application	Signal
-------------	--------

Number of positions	12
---------------------	----

Direction of rotation	Standard
-----------------------	----------

Connection profile	12
--------------------	----

Contact diameter	1 mm
------------------	------

Litz wire cross-section	Signal contacts min. 0.08 mm ²
-------------------------	---

Litz wire cross-section	Signal contacts max. 1 mm ²
-------------------------	--

Nominal current per signal contact	8 A
------------------------------------	-----

Note	for max. connection cross section
------	-----------------------------------

Rated voltage	Signal contact 150 V
---------------	----------------------

Rated surge voltage	2.5 kV
---------------------	--------

Overvoltage category	III
----------------------	-----

Degree of pollution	3
---------------------	---

Installation height	2000 m
---------------------	--------

Housing

Housing material	GD-Zn
------------------	-------

Type of locking	Screw locking mechanism
-----------------	-------------------------

Pg screw connection	none
---------------------	------

Degree of protection (plugged in)	IP66 / IP68 (2m / 24h) / IP69K
-----------------------------------	--------------------------------

Thread type	M23
-------------	-----

Seal

M23-12S1N8A8004 - Cable connector



1629213

<https://www.phoenixcontact.com/pc/products/1629213>

External cable diameter	9 mm ... 15 mm
Seal material	FKM

Environmental and real-life conditions

Ambient conditions

Ambient temperature (operation)	-40 °C ... 105 °C (see to derating)
Permanent temperature	125 °C (DIN EN 60512-9-2 / 1000 h)

M23-12S1N8A8004 - Cable connector

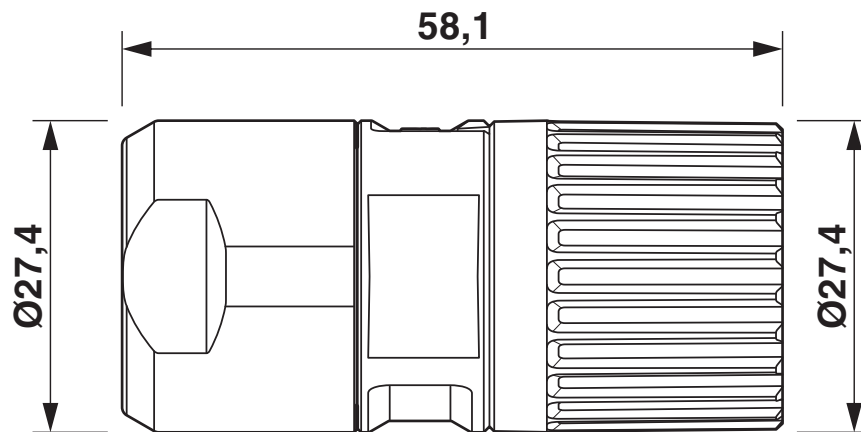


1629213

<https://www.phoenixcontact.com/pc/products/1629213>

Drawings

Dimensional drawing



Dimensional drawing, housing

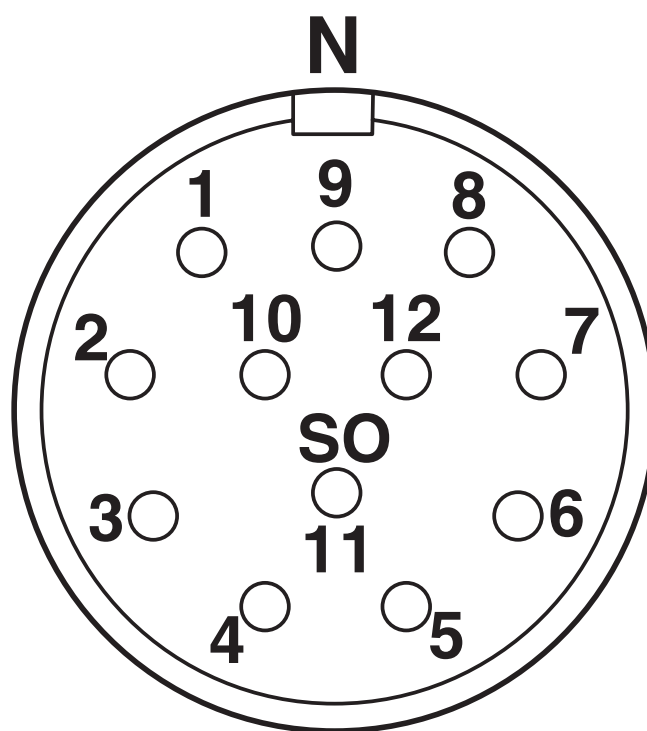
M23-12S1N8A8004 - Cable connector

1629213

<https://www.phoenixcontact.com/pc/products/1629213>



Schematic diagram

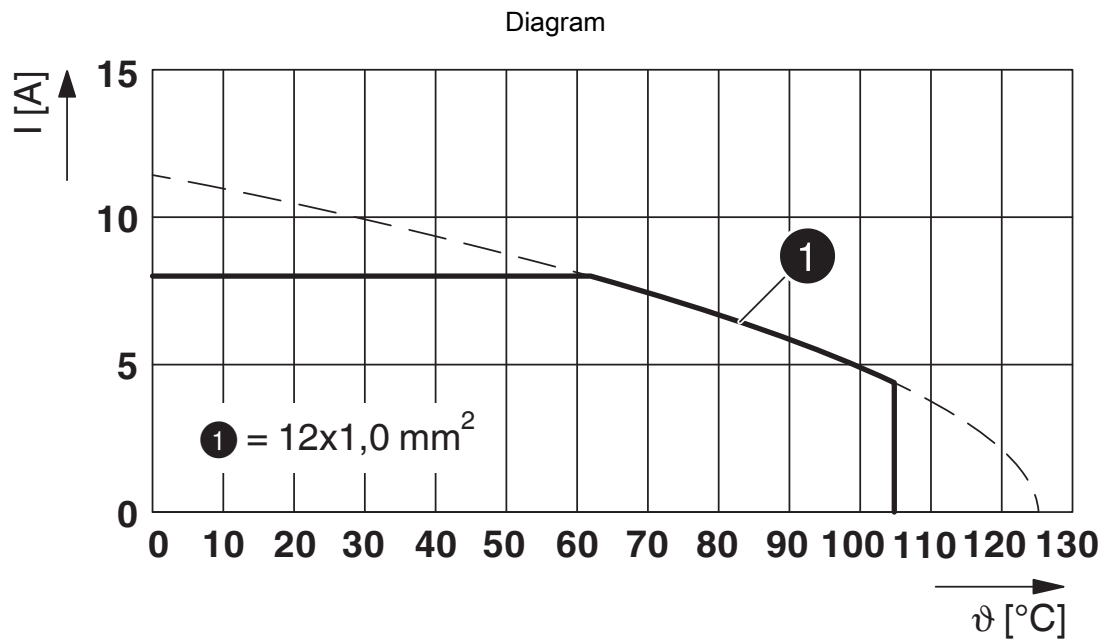


Connector pin assignment

M23-12S1N8A8004 - Cable connector

1629213

<https://www.phoenixcontact.com/pc/products/1629213>



I = current strength, ϑ = ambient temperature, 12x 8 A

M23-12S1N8A8004 - Cable connector



1629213

<https://www.phoenixcontact.com/pc/products/1629213>

Approvals

 To download certificates, visit the product detail page: <https://www.phoenixcontact.com/pc/products/1629213>



cUL Recognized

Approval ID: E335019-20141210



UL Recognized

Approval ID: E335019-20141210

cULus Recognized

M23-12S1N8A8004 - Cable connector



1629213

<https://www.phoenixcontact.com/pc/products/1629213>

Classifications

ECLASS

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

ETIM

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

UNSPSC

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

M23-12S1N8A8004 - Cable connector



1629213

<https://www.phoenixcontact.com/pc/products/1629213>

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%

M23-12S1N8A8004 - Cable connector

1629213

<https://www.phoenixcontact.com/pc/products/1629213>



Accessories

SF-Z0028 - Torque screwdriver

1607456

<https://www.phoenixcontact.com/pc/products/1607456>

Torque screwdriver, series: RC, UC, SH, SF



SF-Z0027 - Hook wrench

1607455

<https://www.phoenixcontact.com/pc/products/1607455>

Hook wrench, series: RC, UC, RF, SF



M23-12S1N8A8004 - Cable connector

1629213

<https://www.phoenixcontact.com/pc/products/1629213>



RF-Z0007 - Special wrench

1614347

<https://www.phoenixcontact.com/pc/products/1614347>

Special wrench, series: RF



RC-11S2000 - Crimp contact

1596772

<https://www.phoenixcontact.com/pc/products/1596772>



Crimp contact, Socket, turned, Single contact, contact diameter: 1 mm, crimp range: 0.08 mm² ... 0.22 mm², Contact release tool not necessary for the 12- and 17-pos. crimp versions of the M23-PRO series, Alternative product in accordance with RoHS II without Exemption 6c (Pb < 0.1 %) item no.: 1241093

M23-12S1N8A8004 - Cable connector



1629213

<https://www.phoenixcontact.com/pc/products/1629213>

RC-12S2000 - Crimp contact

1599600

<https://www.phoenixcontact.com/pc/products/1599600>



Crimp contact, Socket, turned, Single contact, contact diameter: 1 mm, crimp range: 0.14 mm² ... 0.56 mm², Contact release tool not necessary for the 12- and 17-pos. crimp versions of the M23-PRO series, Alternative product in accordance with RoHS II without Exemption 6c (Pb < 0.1 %) item no.: 1241093

RC-1KS2000 - Crimp contact

1602998

<https://www.phoenixcontact.com/pc/products/1602998>



Crimp contact, Socket, turned, Single contact, contact diameter: 1 mm, crimp range: 0.5 mm² ... 1 mm², Contact release tool not necessary for the 12- and 17-pos. crimp versions of the M23-PRO series, Alternative product in accordance with RoHS II without Exemption 6c (Pb < 0.1 %) item no.: 1241572

M23-12S1N8A8004 - Cable connector



1629213

<https://www.phoenixcontact.com/pc/products/1629213>

RC-22S2000 - Crimp contact

1603327

<https://www.phoenixcontact.com/pc/products/1603327>



Crimp contact, Socket, rolled, Single contact, contact diameter: 1 mm, crimp range: 0.22 mm² ... 0.56 mm², Single contact, Item is lead-free in accordance with RoHS II without Exemption 6c (Pb < 0.1 %)

RC-21S2000 - Crimp contact

1603315

<https://www.phoenixcontact.com/pc/products/1603315>



Crimp contact, Socket, rolled, Single contact, contact diameter: 1 mm, crimp range: 0.08 mm² ... 0.22 mm², Single contact, Item is lead-free in accordance with RoHS II without Exemption 6c (Pb < 0.1 %)

M23-12S1N8A8004 - Cable connector



1629213

<https://www.phoenixcontact.com/pc/products/1629213>

RC-22S2300 - Crimp contact

1603330

<https://www.phoenixcontact.com/pc/products/1603330>



Crimp contact, Socket, rolled, Taped product, number of pieces per reel: 500, contact diameter: 1 mm, crimp range: 0.22 mm² ... 0.56 mm², Item is lead-free in accordance with RoHS II without Exemption 6c (Pb < 0.1 %)

RC-22S2400 - Crimp contact

1603332

<https://www.phoenixcontact.com/pc/products/1603332>



Crimp contact, Socket, rolled, Taped product, number of pieces per reel: 10000, contact diameter: 1 mm, crimp range: 0.22 mm² ... 0.56 mm², Item is lead-free in accordance with RoHS II without Exemption 6c (Pb < 0.1 %)

M23-12S1N8A8004 - Cable connector



1629213

<https://www.phoenixcontact.com/pc/products/1629213>

RC-21S2300 - Crimp contact

1603318

<https://www.phoenixcontact.com/pc/products/1603318>



Crimp contact, Socket, rolled, Taped product, number of pieces per reel: 500, contact diameter: 1 mm, crimp range: 0.08 mm² ... 0.22 mm², Item is lead-free in accordance with RoHS II without Exemption 6c (Pb < 0.1 %)

RC-21S2400 - Crimp contact

1616500

<https://www.phoenixcontact.com/pc/products/1616500>



Crimp contact, Socket, rolled, Taped product, number of pieces per reel: 10000, contact diameter: 1 mm, crimp range: 0.08 mm² ... 0.22 mm², Item is lead-free in accordance with RoHS II without Exemption 6c (Pb < 0.1 %)

M23-12S1N8A8004 - Cable connector

1629213

<https://www.phoenixcontact.com/pc/products/1629213>



PROT-M23PRO-SG-IT-IP20 - Plastic protective cap

1055744

<https://www.phoenixcontact.com/pc/products/1055744>



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

PROT-M23PRO-SG-IT-IP67 - Plastic protective cap

1055745

<https://www.phoenixcontact.com/pc/products/1055745>



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

M23-12S1N8A8004 - Cable connector

1629213

<https://www.phoenixcontact.com/pc/products/1629213>



UNIFOX-RT M23 12 - Contact removal tool

1247862

<https://www.phoenixcontact.com/pc/products/1247862>

Removal tool for the M23 PRO series 12-position signal contact carrier



Phoenix Contact 2024 © - all rights reserved

<https://www.phoenixcontact.com>

PHOENIX CONTACT GmbH & Co. KG

Flachsmarktstraße 8

D-32825 Blomberg

+49 (0) 5235-3 00

info@phoenixcontact.com