

CA-09P1N8A90DN - Coupler connector



1620161

<https://www.phoenixcontact.com/za/products/1620161>

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, Coupler connector, series: CA, straight, shielded: yes, for standard and SPEEDCON interlock, No. of pos.: 8+1, Direction of rotation: Standard, contact connection type: Pin, Crimp connection, cable diameter range: 3 mm ... 14.5 mm, coding: N, Alternative product in accordance with RoHS II without Exemption 6c (Pb < 0.1 %) item no.: 1244050

Your advantages

- Safe use in the field, thanks to high degree of protection
- Connector for flexible on-site assembly
- Consistent EMC protection for reliable transmission of signals
- Crimping connection: vibration- and temperature-resistant assembly

Commercial data

Item number	1620161
Packing unit	1 pc
Minimum order quantity	1 pc
Note	Made to order (non-returnable)
Sales key	ABR
Product key	ABRAEG
Catalog page	Page 88 (C-2-2019)
GTIN	4046356818841
Weight per piece (including packing)	95,7 g
Weight per piece (excluding packing)	95,7 g
Customs tariff number	85366990
Country of origin	DE

CA-09P1N8A90DN - Coupler connector



1620161

<https://www.phoenixcontact.com/za/products/1620161>

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)
--------------	---------------------------------

Data management status

Article revision	04
------------------	----

Connector

Insulating body

Note	Order information: Order crimp contacts 8 x Ø 1 mm, 1 x Ø 2 mm separately
Coding	N
Insulation body material	PA 6.6
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.	1 mm ²
Litz wire cross-section Power contacts max.	2.5 mm ²
Rated current Power contacts	20 A
Rated voltage	48 V AC 74 V DC
Rated surge voltage	1.5 kV
Overvoltage category	III
Degree of pollution	3
Contact diameter Signal contacts	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

Housing

Housing material	Turned parts: copper zinc alloy (CuZn), die-cast parts: zinc (GD-Zn)
Type of locking	for standard and SPEEDCON interlock
Pg screw connection	none

CA-09P1N8A90DN - Coupler connector



1620161

<https://www.phoenixcontact.com/za/products/1620161>

Degree of protection (plugged in)	IP67
Thread type	M23

Seal

External cable diameter	3 mm ... 14.5 mm
Seal material	NBR

Environmental and real-life conditions

Ambient conditions

Ambient temperature (operation)	-40 °C ... 125 °C
Ambient temperature (storage/transport)	15 °C ... 25 °C
Permissible humidity (storage/transport)	50 % ... 65 %

CA-09P1N8A90DN - Coupler connector

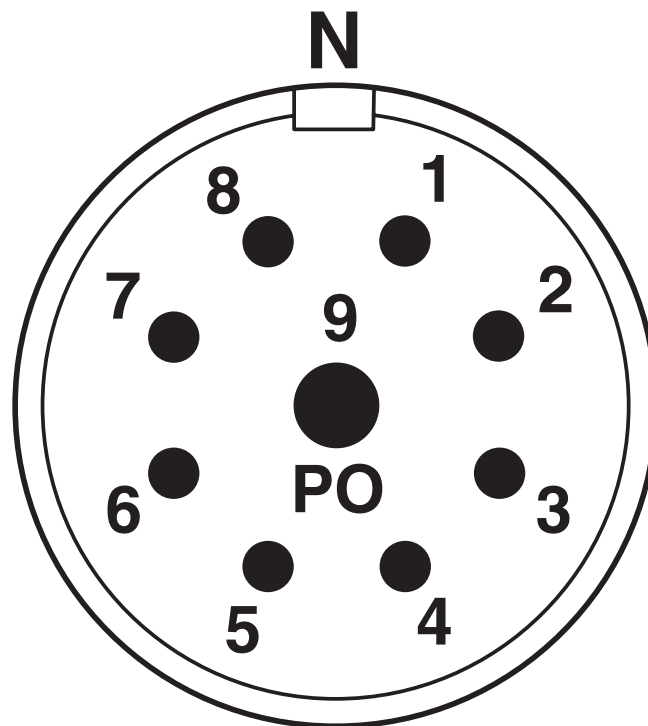


1620161

<https://www.phoenixcontact.com/za/products/1620161>

Drawings

Schematic diagram



Connector pin assignment

CA-09P1N8A90DN - Coupler connector





1620161

<https://www.phoenixcontact.com/za/products/1620161>

Approvals

To download certificates, visit the product detail page: <https://www.phoenixcontact.com/za/products/1620161>

 cUL Recognized Approval ID: E335019-20141210				
	Nominal voltage U_N	Nominal current I_N	Cross section AWG	Cross section mm^2
Power	48 V	12 A	14 - 14	-
Signal	48 V	4 A	20 - 20	-

 UL Recognized Approval ID: E335019-20141210				
	Nominal voltage U_N	Nominal current I_N	Cross section AWG	Cross section mm^2
Power	48 V	20 A	14 - 14	-
Signal	48 V	6 A	20 - 20	-

cULus Recognized				
-------------------------	--	--	--	--

CA-09P1N8A90DN - Coupler connector



1620161

<https://www.phoenixcontact.com/za/products/1620161>

Classifications

ECLASS

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

ETIM

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

UNSPSC

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

CA-09P1N8A90DN - Coupler connector



1620161

<https://www.phoenixcontact.com/za/products/1620161>

Environmental product compliance

EU RoHS

Fulfills EU RoHS substance requirements	Yes
Exemption	6(c)

China RoHS

Environment friendly use period (EFUP)	EFUP-50
	An article-related China RoHS declaration table can be found in the download area for the respective article under "Manufacturer declaration". For all articles with EFUP-E, no China RoHS declaration table issued and required.

EU REACH SVHC

REACH candidate substance (CAS No.)	Lead(CAS: 7439-92-1)
SCIP	0ab7635a-aca1-449b-9ed6-fad70094190d

CA-09P1N8A90DN - Coupler connector

1620161

<https://www.phoenixcontact.com/za/products/1620161>

Accessories

RC-5CP2000 - Crimp contact

1603513

<https://www.phoenixcontact.com/za/products/1603513>



Crimp contact, Pin, turned, contact diameter: 2 mm, crimp range: 1 mm² ... 1.5 mm², 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/za/products/1603505>



Crimp contact, Pin, turned, contact diameter: 2 mm, crimp range: 1.5 mm² ... 2.5 mm², Alternative product in accordance with RoHS II without Exemption 6c (Pb < 0.1 %) item no.: 1241634

CA-09P1N8A90DN - Coupler connector

1620161

<https://www.phoenixcontact.com/za/products/1620161>



RC-5SP2000 - Crimp contact

1603529

<https://www.phoenixcontact.com/za/products/1603529>



Crimp contact, Pin, turned, contact diameter: 2 mm, crimp range: 0.5 mm² ... 0.75 mm², Alternative product in accordance with RoHS II without Exemption 6c (Pb < 0.1 %) item no.: 1241632

SF-Z0019 - Protective cap

1607449

<https://www.phoenixcontact.com/za/products/1607449>



Plastic protection cap, with eye, IP40 for connectors with M23 external thread, RF, SF series

CA-09P1N8A90DN - Coupler connector

1620161

<https://www.phoenixcontact.com/za/products/1620161>

RC-Z2469 - Protective cap

1611797

<https://www.phoenixcontact.com/za/products/1611797>



Plastic protection cap, antistatic, for RF, SF, CA, RC series connectors, with M23 external thread

RC-Z2104 - Metal protective cap

1604260

<https://www.phoenixcontact.com/za/products/1604260>



Metal protective cap, M23, degree of protection: IP67, series: RC, UC, RF, SF, NC, RM, Alternative product in accordance with RoHS II without Exemption 6c (Pb < 0.1 %) item no.: 1241739

CA-09P1N8A90DN - Coupler connector

1620161

<https://www.phoenixcontact.com/za/products/1620161>

RC-Z2068 - Metal protective cap

1604236

<https://www.phoenixcontact.com/za/products/1604236>

Metal protective cap, M23, degree of protection: IP67, series: RC, UC, RF, SF, NC, RM, Alternative product in accordance with RoHS II without Exemption 6c (Pb < 0.1 %) item no.: 1241735



RF-Z0014 - Color coding

1620588

<https://www.phoenixcontact.com/za/products/1620588>

Color coding, color: green



CA-09P1N8A90DN - Coupler connector



1620161

<https://www.phoenixcontact.com/za/products/1620161>

RF-Z0015 - Color coding

1620592

<https://www.phoenixcontact.com/za/products/1620592>

Color coding, color: orange



RF-Z0016 - Color coding

1620593

<https://www.phoenixcontact.com/za/products/1620593>

Color coding, color: black



CA-09P1N8A90DN - Coupler connector



1620161

<https://www.phoenixcontact.com/za/products/1620161>

RF-Z0003 - Square mounting flange

1607905

<https://www.phoenixcontact.com/za/products/1607905>



Square mounting flange, Axial seal, 4xM3, flange dimensions: 35 mm x 35 mm, series: RF, Alternative product in accordance with RoHS II without Exemption 6c (Pb < 0.1 %) item no.: 1242369

RF-Z0007 - Special wrench

1614347

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

Special wrench, series: RF



CA-09P1N8A90DN - Coupler connector

1620161

<https://www.phoenixcontact.com/za/products/1620161>



PROT-M23PRO-OT-IP20 - Plastic protective cap

1055753

<https://www.phoenixcontact.com/za/products/1055753>

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



RC-11P2000 - Crimp contact

1596770

<https://www.phoenixcontact.com/za/products/1596770>

Crimp contact, Pin, 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.: 1240882



CA-09P1N8A90DN - Coupler connector

1620161

<https://www.phoenixcontact.com/za/products/1620161>

RC-12P2000 - Crimp contact

1597862

<https://www.phoenixcontact.com/za/products/1597862>



Crimp contact, Pin, 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.: 1240882

RC-1KP2000 - Crimp contact

1602996

<https://www.phoenixcontact.com/za/products/1602996>



Crimp contact, Pin, 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.: 1241571

CA-09P1N8A90DN - Coupler connector

1620161

<https://www.phoenixcontact.com/za/products/1620161>

RC-22P2000 - Crimp contact

1603321

<https://www.phoenixcontact.com/za/products/1603321>



Crimp contact, Pin, 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-22P2300 - Crimp contact

1603324

<https://www.phoenixcontact.com/za/products/1603324>



Crimp contact, Pin, 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 %)

CA-09P1N8A90DN - Coupler connector



1620161

<https://www.phoenixcontact.com/za/products/1620161>

RC-22P2400 - Crimp contact

1603325

<https://www.phoenixcontact.com/za/products/1603325>



Crimp contact, Pin, 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 %)

RC-21P2000 - Crimp contact

1603310

<https://www.phoenixcontact.com/za/products/1603310>



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

CA-09P1N8A90DN - Coupler connector



1620161

<https://www.phoenixcontact.com/za/products/1620161>

RC-21P2300 - Crimp contact

1603313

<https://www.phoenixcontact.com/za/products/1603313>



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

RC-21P2400 - Crimp contact

1611637

<https://www.phoenixcontact.com/za/products/1611637>



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

Phoenix Contact 2024 © - all rights reserved
<https://www.phoenixcontact.com>

PHOENIX CONTACT (Pty) Ltd.
36 Lyn Road P.O. Box 916 ZA-Ferndale 2160

+27/11/801-8200
info@phoenixcontact.co.za