

# CA-09P1N8A90DNX - Coupler connector



1244050

<https://www.phoenixcontact.com/in/products/1244050>

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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, Item is lead-free in accordance with RoHS II without Exemption 6c (Pb < 0.1 %)

## 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	1244050
Packing unit	1 pc
Minimum order quantity	1 pc
Sales key	*****
Product key	ABRAEG
GTIN	4063151404949
Weight per piece (including packing)	94.5 g
Weight per piece (excluding packing)	95.7 g
Customs tariff number	85366990
Country of origin	DE

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## Technical data

### Notes

Order information:	Order crimp contacts 8 x Ø 1 mm, 1 x Ø 2 mm separately
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### Product properties

Product type	Circular connector (cable-side)
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### 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 <b>Power contacts</b>	2 mm
Litz wire cross-section <b>Power contacts</b> min.	1 mm <sup>2</sup>
Litz wire cross-section <b>Power contacts</b> max.	2.5 mm <sup>2</sup>
Rated current <b>Power contacts</b>	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 <b>Signal contacts</b>	1 mm
Litz wire cross-section <b>Signal contacts</b> min.	0.08 mm <sup>2</sup>
Litz wire cross-section <b>Signal contacts</b> max.	1 mm <sup>2</sup>
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
Degree of protection (plugged in)	IP67
Thread type	M23

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## 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 %

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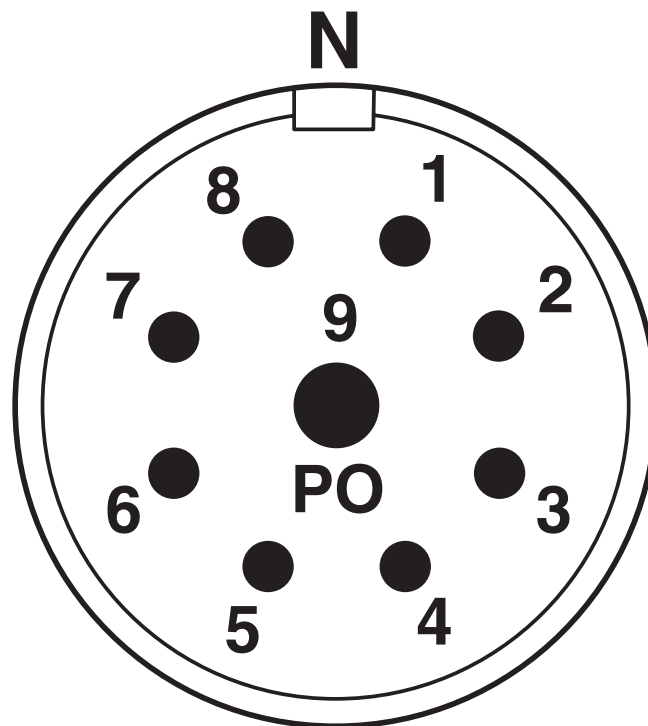
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## Drawings

Schematic diagram



Connector pin assignment

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## Approvals

To download certificates, visit the product detail page: <https://www.phoenixcontact.com/in/products/1244050>

 <b>cUL Recognized</b> Approval ID: E335019-20141210				
	Nominal voltage $U_N$	Nominal current $I_N$	Cross section AWG	Cross section $\text{mm}^2$
Power	48 V	12 A	14	-
Signal	48 V	4 A	20	-

 <b>UL Recognized</b> Approval ID: E335019-20141210				
	Nominal voltage $U_N$	Nominal current $I_N$	Cross section AWG	Cross section $\text{mm}^2$
Power	48 V	20 A	14	-
Signal	48 V	6 A	20	-

<b>cULus Recognized</b>				
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## Classifications

### ECLASS

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

### ETIM

ETIM 9.0	EC002635
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### UNSPSC

UNSPSC 21.0	39121100
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## 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%

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## Accessories

### RC-20KP0,75-2,50 - Crimp contact

1241634

<https://www.phoenixcontact.com/in/products/1241634>



Crimp contact, Pin, turned, contact diameter: 2 mm, crimp range: 0.75 mm<sup>2</sup> ... 2.5 mm<sup>2</sup>, Item is lead-free in accordance with RoHS II without Exemption 6c (Pb < 0.1 %)

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### RC-20KP0,06-1,00 - Crimp contact

1241632

<https://www.phoenixcontact.com/in/products/1241632>



Crimp contact, Pin, turned, Single contact, contact diameter: 2 mm, crimp range: 0.06 mm<sup>2</sup> ... 1 mm<sup>2</sup>, Item is lead-free in accordance with RoHS II without Exemption 6c (Pb < 0.1 %)



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## SF-Z0019 - Protective cap

1607449

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



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

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## RC-Z2104X - Metal protective cap

1241739

<https://www.phoenixcontact.com/in/products/1241739>



Metal protective cap, series: RC, UC, RF, SF, NC, RM, Item is lead-free in accordance with RoHS II without Exemption 6c (Pb < 0.1 %)

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## RC-Z2068X - Metal protective cap

1241735

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Metal protective cap, series: RC, UC, RF, SF, NC, RM, Item is lead-free in accordance with RoHS II without Exemption 6c (Pb < 0.1 %)



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## RF-Z0014 - Color coding

1620588

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

Color coding, color: green



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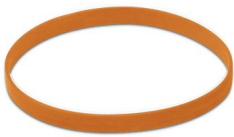
<https://www.phoenixcontact.com/in/products/1244050>

## RF-Z0015 - Color coding

1620592

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

Color coding, color: orange



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## RF-Z0016 - Color coding

1620593

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

Color coding, color: black



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## RF-Z0003X - Square mounting flange

1242369

<https://www.phoenixcontact.com/in/products/1242369>



Square mounting flange, Axial seal, 4xM3, flange dimensions: 35 mm x 35 mm, series: RF, Item is lead-free in accordance with RoHS II without Exemption 6c (Pb < 0.1 %)

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## RF-Z0007 - Special wrench

1614347

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



Special wrench, series: RF

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<https://www.phoenixcontact.com/in/products/1244050>



## PROT-M23PRO-OT-IP20 - Plastic protective cap

1055753

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

Plastic protective cap, M23, series: M23 PRO



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## RC-10KP0,08-0,56 - Crimp contact

1240882

<https://www.phoenixcontact.com/in/products/1240882>



Crimp contact, Pin, turned, Single contact, contact diameter: 1 mm, crimp range: 0.08 mm<sup>2</sup> ... 0.56 mm<sup>2</sup>, Contact release tool not necessary for the 12- and 17-pos. crimp versions of the M23-PRO series, Item is lead-free in accordance with RoHS II without Exemption 6c (Pb < 0.1 %)

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## RC-10KP0,75-1,00 - Crimp contact

1241571

<https://www.phoenixcontact.com/in/products/1241571>



Crimp contact, Pin, turned, Single contact, contact diameter: 1 mm, crimp range: 0.75 mm<sup>2</sup> ... 1 mm<sup>2</sup>, Contact release tool not necessary for the 12- and 17-pos. crimp versions of the M23-PRO series, Item is lead-free in accordance with RoHS II without Exemption 6c (Pb < 0.1 %)

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