

# RC-09P1N8A80G5 - Cable connector



1610451

<https://www.phoenixcontact.com/us/products/1610451>

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.



The figure shows the 12-pos.  
product version

M23, Cable connector, application: Signal, straight, Screw locking mechanism, No. of pos.: 8+1, Direction of rotation: Standard, contact connection type: Pin, Crimp connection, cable diameter range: 6.5 mm ... 7.5 mm, coding: N

## Commercial data

Item number	1610451
Packing unit	20 pc
Minimum order quantity	1 pc
Note	Made to order (non-returnable)
Product key	ABRAFA
GTIN	4046356391979
Weight per piece (including packing)	68.14 g
Weight per piece (excluding packing)	68.14 g
Country of origin	DE

# RC-09P1N8A80G5 - Cable connector



1610451

<https://www.phoenixcontact.com/us/products/1610451>

## 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)
--------------	---------------------------------

### Material specifications

Housing material	Metal
------------------	-------

### 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
Connection method	Crimp connection
Contact switching type	Pin
Application	Signal
Number of positions	9
Direction of rotation	Standard
Connection profile	8+1
Number (Contact group 1)	1
Contact diameter (Contact group 1)	2 mm
Rated current Contact (Contact group 1)	20 A (for max. connection cross section)
Rated voltage Contact (Contact group 1)	48 V AC 74 V DC
Rated surge voltage	1.5 kV
Overvoltage category	III
Degree of pollution	3
Number (Contact group 2)	8
Contact diameter (Contact group 2)	1 mm
Rated current Contact (Contact group 2)	8 A
Rated voltage Contact (Contact group 2)	48 V AC 48 V AC

#### Housing

Note	Order contact inserts separately
Type	Cable connector housing
Thread type	M23
Design	straight
Type of locking	Screw locking mechanism
Pg screw connection	none

# RC-09P1N8A80G5 - Cable connector



1610451

<https://www.phoenixcontact.com/us/products/1610451>

Material (Housing)	Metal
Degree of protection (plugged in)	IP65
	IP67
	IP68
Seal	
External cable diameter	6.5 mm ... 7.5 mm

# RC-09P1N8A80G5 - Cable connector



1610451

<https://www.phoenixcontact.com/us/products/1610451>

## Drawings

Schematic diagram



Connector pin assignment

# RC-09P1N8A80G5 - Cable connector



1610451

<https://www.phoenixcontact.com/us/products/1610451>

Schematic diagram



Connector pin assignment

Phoenix Contact 2026 © - 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](mailto:info@phoenixcon.com)