

# QPD C4X2,5/2X6-10 GY - Conductor connector



1424021

<https://www.phoenixcontact.com/us/products/1424021>

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.



Conductor connector, connection method: IDC connection, 1 mm<sup>2</sup> ... 2.5 mm<sup>2</sup>, 690 V, 20 A, PA, gray, With two QUICKON nuts, coding: Coding profile, external cable diameter: 6 mm ... 10 mm

## Your advantages

- Innovative and time saving - QUICKON fast connection for time saving of up to 80 % for on-site connection
- Robust throughout: housing with IP68/IP69K and IK07 protection for a wide range of applications
- Safer connection with mechanical coding to protect against mismatching, and touch-proof protection in accordance with DIN EN 0105
- Easy and safe - with the cable connector, you can repair or extend cables quickly, in combination with the connector as well as the coupling connection

## Commercial data

Item number	1424021
Packing unit	1 pc
Minimum order quantity	1 pc
Sales key	BF50
Product key	AF6CBB
GTIN	4055626366296
Weight per piece (including packing)	65.8 g
Weight per piece (excluding packing)	65.2 g
Customs tariff number	85366990
Country of origin	PL

# QPD C4X2,5/2X6-10 GY - Conductor connector



1424021

<https://www.phoenixcontact.com/us/products/1424021>

## Technical data

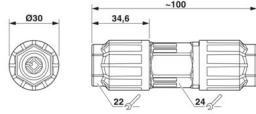
### Product properties

Product type	Cable connector
Product family	QPD
Type	QPD 4x2,5
Number of positions	4
Position marking	1, 2, 3, 4
Number of connections per position	1
Coding	Coding profile

### Insulation characteristics

Overvoltage category	III
Degree of pollution	3

### Dimensions

Dimensional drawing	
Width	30 mm
Height	30 mm
Length	100 mm
Diameter	30 mm

### Connection data

#### Connection technology

Frequency of connections between conductors of the same cross section	max. 10
---	---------

#### Conductor connection

Tightening torque	10 Nm
Tightening torque Union nut	10 Nm

### Electrical properties

Rated surge voltage (II/2)	6 kV
Rated surge voltage (III/2)	6 kV
Rated surge voltage (III/3)	6 kV
Rated current	20 A
Contact resistance	< 3 mΩ
rated voltage (II/2)	1000 V
rated voltage (III/2)	690 V
Rated voltage (III/3)	690 V
Nominal voltage $U_N$	690 V AC

# QPD C4X2,5/2X6-10 GY - Conductor connector



1424021

<https://www.phoenixcontact.com/us/products/1424021>

	690 V DC
Nominal current $I_N$	20 A

## Mechanical properties

### Mechanical data

Insertion/withdrawal cycles	max. 50
-----------------------------	---------

## Material specifications

Material Housing	PA
Material Contact	Cu
Material Contact surface	silver-plated
Flammability rating according to UL 94	V0
Material wire insulation	PVC/PE/TPE/rubber

## Cable/line

Structure of individual litz in acc. with VDE 0295 / smallest wire diameter	VDE 0295 class 1 to 6/min. 0.15 mm
External cable diameter	6 mm ... 10 mm
Wire diameter including insulation	2 mm ... 3.8 mm
Position marking	1, 2, 3, 4
Material wire insulation	PVC/PE/TPE/rubber
Halogen-free	yes

## Environmental and real-life conditions

### Ambient conditions

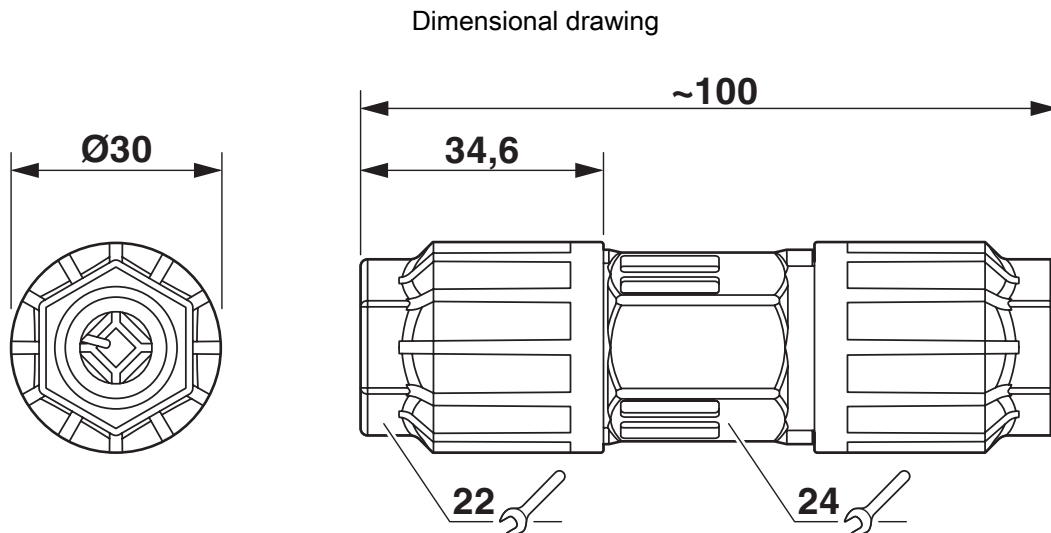
Degree of protection	IP66
	IP68 (2 m / 24 h)
	IP69K
	Touch-proof when not plugged in (IP2X)
Impact strength	IK07
Ambient temperature (operation)	-40 °C ... 100 °C
Temperature when conductor connected	-5 °C ... 50 °C
Ambient temperature (storage/transport)	-40 °C ... 100 °C

# QPD C4X2,5/2X6-10 GY - Conductor connector

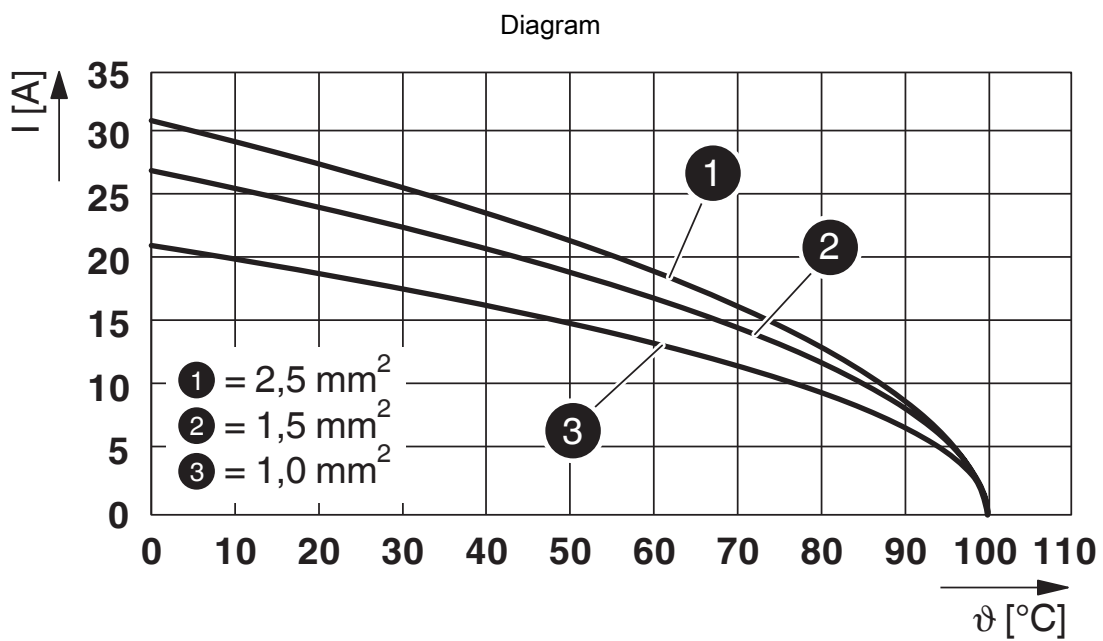
1424021

<https://www.phoenixcontact.com/us/products/1424021>

## Drawings



Dimensional drawing



Derating diagram

# QPD C4X2,5/2X6-10 GY - Conductor connector



1424021

<https://www.phoenixcontact.com/us/products/1424021>

## Approvals

To download certificates, visit the product detail page: <https://www.phoenixcontact.com/us/products/1424021>



**IECEE CB Scheme**  
Approval ID: DE1-65875



**VDE Zeichengenehmigung**  
Approval ID: 40029149

	Nominal voltage $U_N$	Nominal current $I_N$	Cross section AWG	Cross section $\text{mm}^2$
keine				
Only flexible conductors	400 V	20 A	-	1.5 - 2.5
Only rigid conductors	690 V	20 A	-	1.5 - 2.5



**UL Listed**  
Approval ID: E468743

	Nominal voltage $U_N$	Nominal current $I_N$	Cross section AWG	Cross section $\text{mm}^2$
keine				
	600 V	10 A	- 16	- 16



**cUL Listed**  
Approval ID: E468743

	Nominal voltage $U_N$	Nominal current $I_N$	Cross section AWG	Cross section $\text{mm}^2$
keine				
	600 V	10 A	- 16	-



**DNV GL**  
Approval ID: TAE00003J5

# QPD C4X2,5/2X6-10 GY - Conductor connector



1424021

<https://www.phoenixcontact.com/us/products/1424021>

## Classifications

### ECLASS

ECLASS-13.0	27440605
ECLASS-15.0	27440605

### ETIM

ETIM 10.0	EC002560
-----------	----------

### UNSPSC

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

# QPD C4X2,5/2X6-10 GY - Conductor connector



1424021

<https://www.phoenixcontact.com/us/products/1424021>

## 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%
-------------------------------------	----------------------------

### EF3.1 Climate Change

CO2e kg	0.835 kg CO2e
---------	---------------

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)