

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



1424021

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

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Conductor connector, connection method: IDC connection, 1 mm² ... 2.5 mm², 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 |

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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 |

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| | |
|-----------------------|----------|
| | 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

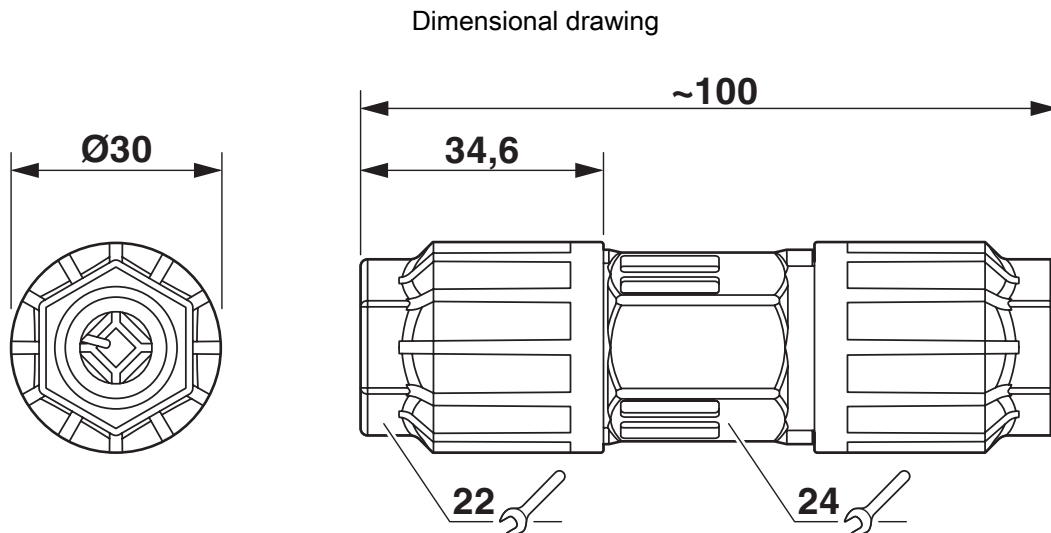
| | |
|-----------------------------------------|----------------------------------------|
| Degree of protection | IP66 |
| | IP68 (2 m / 24 h) |
| | IP69K |
| | Touch-proof when not plugged in (IP2X) |
| Impact strength | IK07 |
| Ambient temperature (operation) | -40 °C ... 100 °C |
| Temperature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

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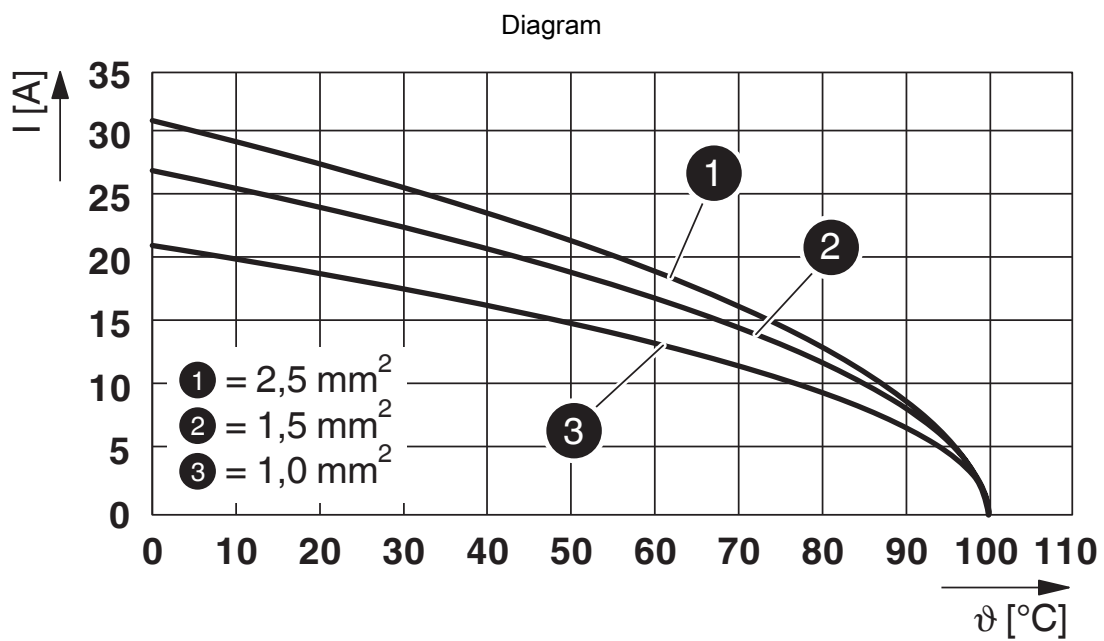
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Drawings



Dimensional drawing



Derating diagram

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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 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 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 mm^2 |
|-------|-----------------------|-----------------------|-------------------|-----------------------------|
| keine | | | | |
| | 600 V | 10 A | - 16 | - |



DNV GL
Approval ID: TAE00003J5

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Classifications

ECLASS

| | |
|-------------|----------|
| ECLASS-13.0 | 27440605 |
| ECLASS-15.0 | 27440605 |

ETIM

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

UNSPSC

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

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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% |
|-------------------------------------|----------------------------|

EF3.1 Climate Change

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

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