

QPD C 4PE6,0 2X12-20 BK - Conductor connector



1410412

<https://www.phoenixcontact.com/us/products/1410412>

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QUICKON cable connector, black, 4+PE-pos., 2.5 mm² ... 6.0 mm²/690 V/40 A, for cable diameter of 12 mm ... 20 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 | 1410412 |
| Packing unit | 1 pc |
| Minimum order quantity | 1 pc |
| Sales key | BF50 |
| Product key | AF6CCC |
| GTIN | 4046356929523 |
| Weight per piece (including packing) | 124.5 g |
| Weight per piece (excluding packing) | 124.5 g |
| Customs tariff number | 85366990 |
| Country of origin | PL |

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Technical data

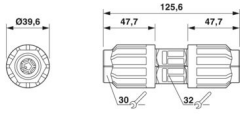
Product properties

| | |
|------------------------------------|-----------------|
| Product type | Cable connector |
| Product family | QPD |
| Type | QPD 5x6,0 |
| Number of positions | 5 |
| Connection profile | 4+PE |
| Position marking | 1, 2, 3, N, PE |
| Number of connections per position | 1 |
| Coding | Coding profile |

Insulation characteristics

| | |
|----------------------|-----|
| Overvoltage category | III |
| Degree of pollution | 3 |

Dimensions

| | |
|--------------------------|--------------------------------------------------------------------------------------|
| Dimensional drawing |  |
| Width | 39.6 mm |
| Height | 39.6 mm |
| Length | 125.6 mm |
| Diameter | 39.6 mm |
| Wrench size | 30 mm |
| Wrench size for mounting | 30 mm |

Connection data

Connection technology

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

Conductor connection

| | |
|-----------------------------|-------|
| Tightening torque | 15 Nm |
| Tightening torque Union nut | 15 Nm |
| Wrench size Union nut | 30 mm |

Electrical properties

| | |
|-----------------------------|------|
| Rated surge voltage (II/2) | 8 kV |
| Rated surge voltage (III/2) | 8 kV |
| Rated surge voltage (III/3) | 6 kV |
| Rated current | 40 A |

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| | |
|-----------------------|----------|
| Contact resistance | < 3 mΩ |
| rated voltage (II/2) | 1000 V |
| rated voltage (III/2) | 1000 V |
| Rated voltage (III/3) | 690 V |
| Nominal voltage U_N | 690 V AC |
| | 690 V DC |
| Nominal current I_N | 40 A |

Mechanical properties

Mechanical data

| | |
|-----------------------------|---------------------------------------|
| Insertion/withdrawal cycles | max. 50 (QUICKON connections max. 10) |
|-----------------------------|---------------------------------------|

Material specifications

| | |
|----------------------------------------|-------------------|
| Color | black (RAL 9005) |
| Material Housing | PA |
| 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 | 12 mm ... 20 mm |
| Wire diameter including insulation | 2.95 mm ... 5 mm |
| Position marking | 1, 2, 3, N, PE |
| Material wire insulation | PVC/PE/TPE/rubber |

Environmental and real-life conditions

Ambient conditions

| | |
|-----------------------------------------|-------------------|
| Degree of protection | IP66 |
| | IP68 (2 m / 24 h) |
| | IP69K |
| 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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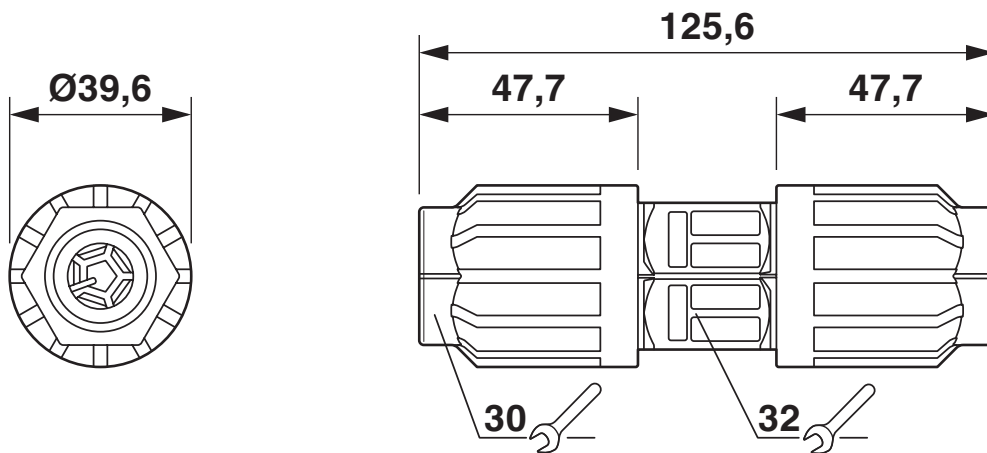


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Drawings

Dimensional drawing



Dimensional drawing of QPD C 5x6,0

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Approvals

To download certificates, visit the product detail page: <https://www.phoenixcontact.com/us/products/1410412>



IECEE CB Scheme
Approval ID: DE1-65875



DNV GL
Approval ID: TAE00003J5



VDE Zeichengenehmigung
Approval ID: 40029149

| | UL Listed | | | |
|-------|-----------------------|-----------------------|-------------------|-----------------------------|
| | Approval ID: E468743 | | | |
| | Nominal voltage U_N | Nominal current I_N | Cross section AWG | Cross section mm^2 |
| keine | | | | |
| | 600 V | 20 A | - 12 | - 12 |

| | cUL Listed | | | |
|-------|-----------------------|-----------------------|-------------------|-----------------------------|
| | Approval ID: E468743 | | | |
| | Nominal voltage U_N | Nominal current I_N | Cross section AWG | Cross section mm^2 |
| keine | | | | |
| | 600 V | 20 A | - 12 | - |

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Classifications

ECLASS

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

ETIM

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|----------|----------|
| ETIM 9.0 | EC002560 |
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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% |
| EF3.0 Climate Change | |
| CO2e kg | 1.283 kg CO2e |

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Phoenix Contact USA
586 Fulling Mill Road
Middletown, PA 17057, United States
(+717) 944-1300
info@phoenixcon.com