

# QPD C 4PE6,0 2X9-14 GY - Conductor connector



1410413

<https://www.phoenixcontact.com/us/products/1410413>

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QUICKON cable connector, gray, 4+PE-pos., 2.5 mm<sup>2</sup> ... 6.0 mm<sup>2</sup>/690 V/40 A, for cable diameter of 9 mm ... 14 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                          | 1410413       |
| Packing unit                         | 1 pc          |
| Minimum order quantity               | 1 pc          |
| Product key                          | AF6CCC        |
| GTIN                                 | 4046356929530 |
| Weight per piece (including packing) | 141.8 g       |
| Weight per piece (excluding packing) | 141.8 g       |
| Country of origin                    | PL            |

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## Technical data

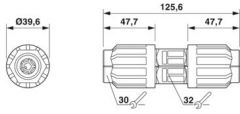
### Product properties

|                                    |                 |
|------------------------------------|-----------------|
| Product type                       | Cable connector |
| Product family                     | QPD             |
| Type                               | QPD 5x6,0       |
| Number of positions                | 5               |
| Connection profile                 | 4+PE            |
| Position marking                   | 1, 2, L, 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  |
| Nominal current $I_N$ | 40 A   |

## Mechanical properties

### Mechanical data

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

## 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   | 9 mm ... 14 mm                     |
| Wire diameter including insulation  | 2.95 mm ... 5 mm                   |
| Position marking  | 1, 2, L, 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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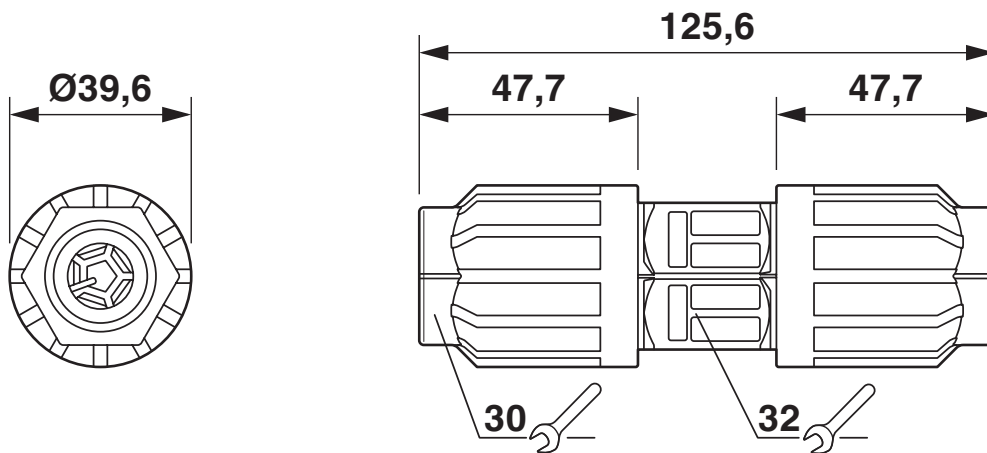


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## Drawings

Dimensional drawing



Dimensional drawing of QPD C 5x6,0

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## Classifications

### ECLASS

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

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## Environmental product compliance

### EU RoHS

|   |                    |
|---|--------------------|
| Fulfills EU RoHS substance requirements | Yes, No exemptions |
|---|--------------------|

### EU REACH SVHC

|                                     |                            |
|-------------------------------------|----------------------------|
| REACH candidate substance (CAS No.) | No substance above 0.1 wt% |
|-------------------------------------|----------------------------|

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