

# QPD T 4PE1,5 2X5-10 BK - T distributor



1414751

<https://www.phoenixcontact.com/us/products/1414751>

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T distributor, connection method: IDC connection, number of positions: 4+PE, 0.5 mm<sup>2</sup> ... 1.5 mm<sup>2</sup>, 690 V, 17.5 A, PA, black, 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
- Flexible and compact - by connecting connections internally, H and T-distributors can be used to branch master cables or they can be used as star distributors

## Commercial data

|                                      |               |
|--------------------------------------|---------------|
| Item number                          | 1414751       |
| Packing unit                         | 1 pc          |
| Minimum order quantity               | 1 pc          |
| Sales key                            | BF50          |
| Product key                          | AF6DCA        |
| GTIN                                 | 4055626033600 |
| Weight per piece (including packing) | 156 g         |
| Weight per piece (excluding packing) | 144.171 g     |
| Customs tariff number                | 85366990      |
| Country of origin                    | PL            |

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## Technical data

## Product properties

|                       |                   |
|-----------------------|-------------------|
| Product type          | Power distributor |
| Product family        | QPD               |
| Type                  | T distributor     |
| Number of positions   | 5                 |
| Connection profile    | 4+PE              |
| Position marking      | 1, 2, 3, N, PE    |
| Number of connections | 2                 |
| No. of cable outlets  | 3                 |
| Coding                | Coding profile    |

### Insulation characteristics

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

## Connection data

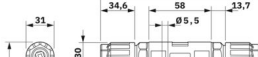
## Connection technology

|                                                                       |                |
|-----------------------------------------------------------------------|----------------|
| Connection method                                                     | IDC connection |
| Frequency of connections between conductors of the same cross section | max. 10        |

### Conductor connection

|                                  |                     |
|----------------------------------|---------------------|
| Conductor cross section flexibel | 0.5 mm² ... 1.5 mm² |
| Conductor cross section solid    | 0.5 mm² ... 1.5 mm² |
| Connection cross section AWG     | 20 ... 16           |
| Tightening torque Union nut      | 8 Nm                |
| Tightening torque Locking nut    | 5 Nm                |

## Dimensions

|                     |                                                                                      |
|---------------------|--------------------------------------------------------------------------------------|
| Dimensional drawing |  |
| Width               | 76 mm                                                                                |
| Height              | 31 mm                                                                                |
| Length              | 154.6 mm                                                                             |

## Electrical properties

|                             |      |
|-----------------------------|------|
| Rated surge voltage (II/2)  | 8 kV |
| Rated surge voltage (III/2) | 8 kV |

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|                             |          |
|-----------------------------|----------|
| Rated surge voltage (III/3) | 6 kV     |
| Rated current               | 17.5 A   |
| 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 $I_N$       | 17.5 A   |

## Mechanical properties

### Mechanical data

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

## Material specifications

|                                        |                   |
|----------------------------------------|-------------------|
| Color                                  | black (RAL 9005)  |
| 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                                          | 1.6 mm ... 3 mm                    |
| Position marking                                                            | 1, 2, 3, N, PE                     |
| Material wire insulation                                                    | PVC/PE/TPE/rubber                  |

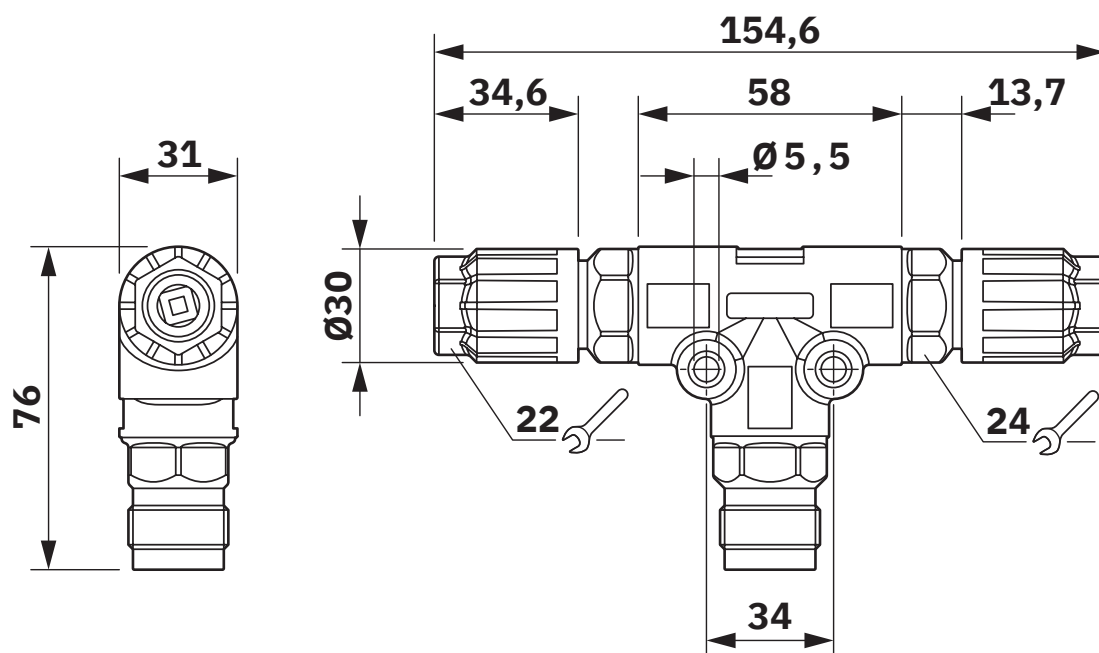
## Environmental and real-life conditions

### Ambient conditions

|                                         |                                        |
|-----------------------------------------|----------------------------------------|
| Degree of protection                    | IP66                                   |
|                                         | IP68                                   |
|                                         | IP69K                                  |
|                                         | Touch-proof when not plugged in (IP2X) |
| Impact strength                         | IK07 (-25 °C)                          |
| Ambient temperature (operation)         | -40 °C ... 100 °C                      |
| Temperature when conductor connected    | -5 °C ... 50 °C                        |
| Ambient temperature (storage/transport) | -40 °C ... 100 °C                      |

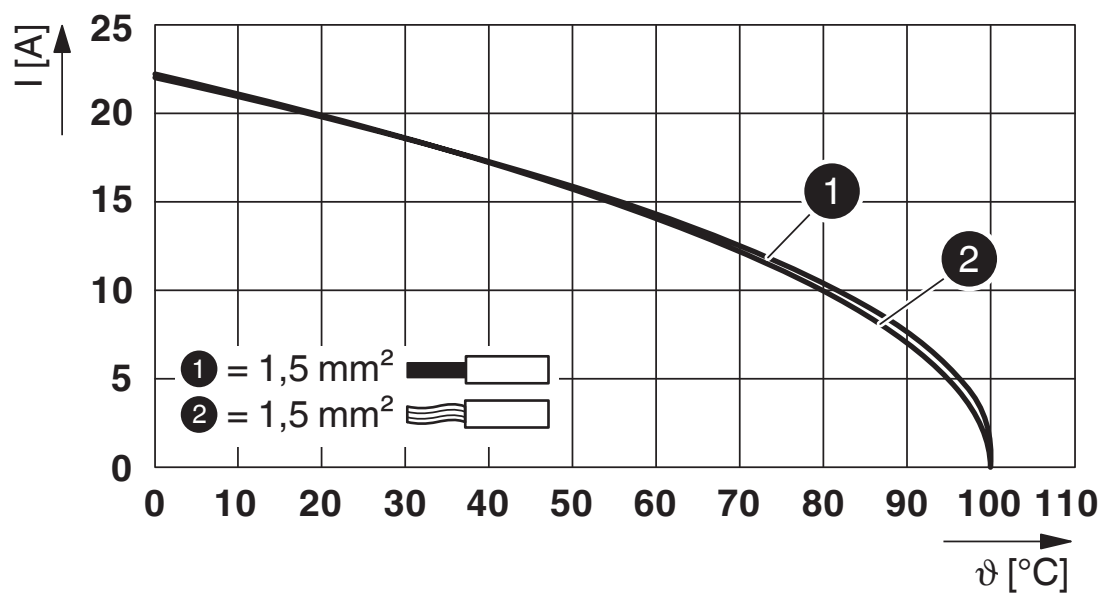
## Drawings

Dimensional drawing



Dimensional drawing

Diagram



Derating diagram

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## Approvals

To download certificates, visit the product detail page: <https://www.phoenixcontact.com/us/products/1414751>



**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                 | 8 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                 | 8 A                   | - 16              | -                    |

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## Classifications

### ECLASS

|             |          |
|-------------|----------|
| ECLASS-13.0 | 27440603 |
| ECLASS-15.0 | 27440603 |

### ETIM

|          |          |
|----------|----------|
| ETIM 9.0 | EC002567 |
|----------|----------|

### 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 | 2.692 kg CO2e |
|---------|---------------|

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