

# QPD T 4PE2,5 BK - T distributor



1417489

<https://www.phoenixcontact.com/us/products/1417489>

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T distributor, connection method: IDC connection/ QUICKON fast connection, number of positions: 4+PE, 1 mm<sup>2</sup> ... 2.5 mm<sup>2</sup>, 690 V, 20 A, PA, black, without QUICKON nut, coding: Coding profile

## Commercial data

Item number	1417489
Packing unit	1 pc
Minimum order quantity	1 pc
Sales key	BF50
Product key	AF6DCB
GTIN	4055626173016
Weight per piece (including packing)	172.5 g
Weight per piece (excluding packing)	172.5 g
Customs tariff number	85366990
Country of origin	PL

## 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	3
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
	QUICKON fast connection
Frequency of connections between conductors of the same cross section	max. 10

#### Conductor connection

Conductor cross-section flexibel	1 mm <sup>2</sup> ... 2.5 mm <sup>2</sup>
Conductor cross-section solid	1 mm <sup>2</sup> ... 2.5 mm <sup>2</sup>
Connection cross section AWG	16 ... 14
Tightening torque Union nut	10 Nm

### 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	20 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 <sub>N</sub>	690 V
Nominal current I <sub>N</sub>	20 A

### Mechanical properties

#### Mechanical data

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Insertion/withdrawal cycles	max. 50
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## 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
Wire diameter including insulation	2 mm ... 3.8 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
	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 ... 80 °C

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## Approvals

To download certificates, visit the product detail page: <https://www.phoenixcontact.com/us/products/1417489>

 <b>UL Listed</b> Approval ID: E468743				
	Nominal voltage $U_N$	Nominal current $I_N$	Cross section AWG	Cross section $\text{mm}^2$
keine				
	600 V	10 A	- 14	-

 <b>cUL Listed</b> Approval ID: E468743				
	Nominal voltage $U_N$	Nominal current $I_N$	Cross section AWG	Cross section $\text{mm}^2$
keine				
	600 V	10 A	- 14	-

 <b>DNV GL</b> Approval ID: TAE00003J5				
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## Classifications

### ECLASS

ECLASS-13.0	27440603
ECLASS-15.0	27440603

### ETIM

ETIM 10.0	EC002567
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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
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### 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%
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