QPD H 2PE1,5 BK - H distributor

1414721

https://www.phoenixcontact.com/us/products/1414721

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H distributor, product family: QPD, connection method: IDC connection/ QUICKON fast connection, number of positions: 2+PE, 0.5 mm^2 ... 1.5 mm^2, 690 V, 17.5 A, PA, black, without QUICKON nut

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	1414721
Packing unit	1 pc
Minimum order quantity	1 pc
Sales key	BF50
Product key	BF6DAA
Catalog page	Page 472 (C-2-2019)
GTIN	4055626032221
Weight per piece (including packing)	120 g
Weight per piece (excluding packing)	120 g
Customs tariff number	85366990
Country of origin	PL

Technical data

Mounting

Wrench size	19 mm

Product properties

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

Insulation characteristics

Overvoltage category	III
Degree of pollution	3

Connection data

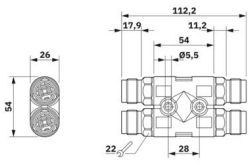
Connection technology

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	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
Wrench size Union nut	19 mm

Dimensions

Dimensional drawing	
Width	54 mm
Height	26 mm
Length	143.8 mm

Wrench size for mounting	19 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	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 / rubber / TPE

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	1.6 mm ... 3 mm
Position marking	1, 2, PE
Material wire insulation	PVC /PE / rubber / TPE

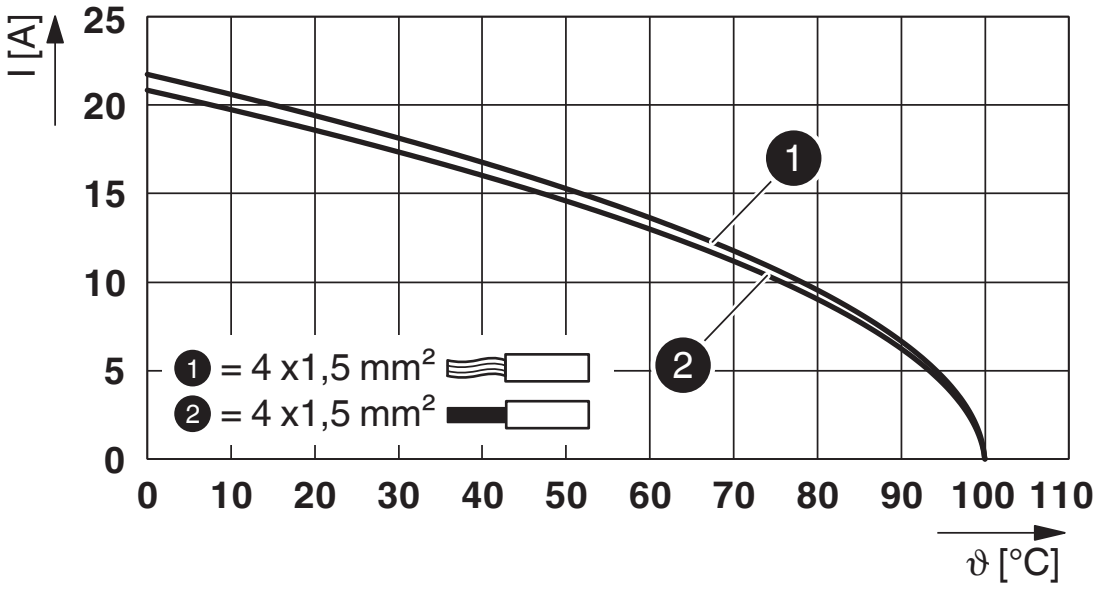
Environmental and real-life conditions

Ambient conditions

Degree of protection	IP66
	IP68 (2 m / 24 h)
	IP69K (Distance from the nozzle 150 mm)
Ambient temperature (operation)	-40 °C ... 100 °C
Temperature when conductor connected	-5 °C ... 50 °C
Ambient temperature (storage/transport)	-40 °C ... 100 °C

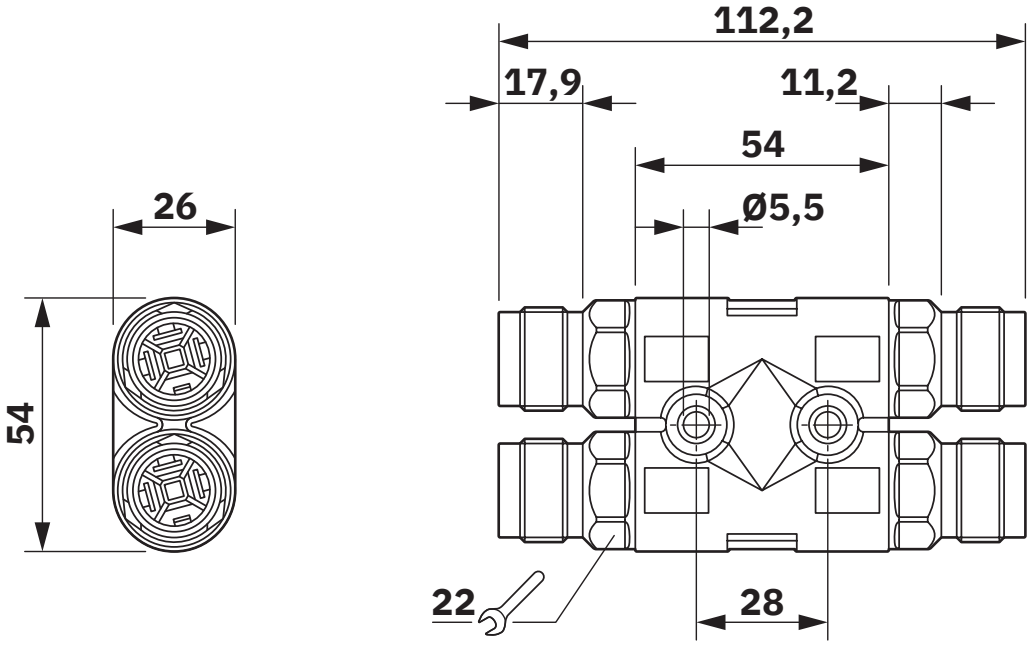
Drawings

Diagram



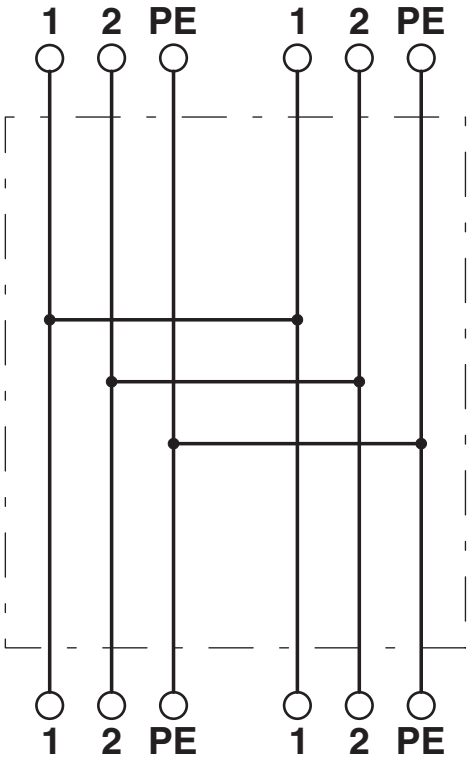
Derating diagram

Dimensional drawing



Dimensional drawing

Circuit diagram



Approvals

To download certificates, visit the product detail page: https://www.phoenixcontact.com/us/products/1414721

IECEE CB Scheme
Approval ID: DE1-65875

EAC
Approval ID: RU C-DE.BL08.B.00511

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
	600 V	8 A	-	- 16

cUL Listed
Approval ID: E468743

	Nominal voltage U_N	Nominal current I_N	Cross section AWG	Cross section mm^2
	600 V	8 A	- 16	-

cULus Listed

Classifications

ECLASS

ECLASS-11.0	27440603
ECLASS-12.0	27440603
ECLASS-13.0	27440603

ETIM

ETIM 9.0	EC002567

UNSPSC

UNSPSC 21.0	39121400

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%

Mandatory accessories

QPD P 2PE1,5 4-9 BK - Connector

1414705

https://www.phoenixcontact.com/us/products/1414705



Connector, product family: QPD, connection method: IDC connection, number of positions: 2+PE, 0.5 mm^2 ... 1.5 mm^2, 690 V, 17.5 A, PA, black, with QUICKON nut, external cable diameter: 5 mm ... 7 mm and 7 mm ... 9.5 mm

QPD P 2PE1,5 8-13 BK - Connector

1414706

https://www.phoenixcontact.com/us/products/1414706



Connector, product family: QPD, connection method: IDC connection, number of positions: 2+PE, 0.5 mm^2 ... 1.5 mm^2, 690 V, 17.5 A, PA, black, with QUICKON nut, external cable diameter: 10 mm ... 13 mm

QPD N 2PE1,5 4-9 BK - Nut

1415099

https://www.phoenixcontact.com/us/products/1415099



Nut, product family: QPD, connection method: IDC connection, number of positions: 2+PE, 0.5 mm^2 ... 1.5 mm^2, 690 V, 17.5 A, PA, black, external cable diameter: 5 mm ... 7 mm and 7 mm ... 9.5 mm

QPD N 2PE1,5 8-13 BK - Nut

1415100

https://www.phoenixcontact.com/us/products/1415100



Nut, product family: QPD, connection method: IDC connection, number of positions: 2+PE, 0.5 mm^2 ... 1.5 mm^2, 690 V, 17.5 A, PA, black, external cable diameter: 10 mm ... 13 mm

Accessories

CP-QPD 3/4X1,5 - Coding profile

1414729

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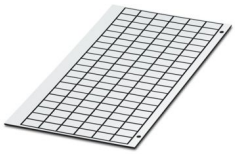


Coding profile red, for pushing into the QUICKON dome and connector, can be positioned in 90° steps.

GPE 13X 9 WH - Engraving material

0806932

https://www.phoenixcontact.com/us/products/0806932



Engraving material, Sheet, white, unlabeled, can be labeled with: PLOTMARK, ENGRAVING UNIT, CMS-P1-PLOTTER, P1 ENGRAVING UNIT, mounting type: adhesive, lettering field size: 13 x 9 mm, Number of individual labels: 120

EMLP (13X9)R - Label

0819453

https://www.phoenixcontact.com/us/products/0819453



Label, Roll, white, unlabeled, can be labeled with: THERMOMARK E.300 (D)/600 (D), THERMOMARK ROLL 2.0, THERMOMARK ROLL, THERMOMARK ROLL X1, THERMOMARK ROLLMASTER 300/600, THERMOMARK X1.2, mounting type: adhesive, lettering field size: 13 x 9 mm, Number of individual labels: 500

QPD QSK BK 3/4X1,5 FS - Protective cap

1414722

https://www.phoenixcontact.com/us/products/1414722

Protective cap, plastic, for QUICKON connection, black, with retaining cord, IP68



QPD QSK 3/4X1,5 - Protective cap

1414723

https://www.phoenixcontact.com/us/products/1414723



Protective cap plastic, for QPD-QUICKON connection 3(4) x 1.5 mm^2, IP50

QPD W 2PE1,5 M20 0,5 BK - Panel feed-through

1414690

https://www.phoenixcontact.com/us/products/1414690



Panel feed-through, product family: QPD, connection method: Single wires (Welded-on), number of positions: 2+PE, M20, 0.5 mm^2 ... 1.5 mm^2, 690 V, 17.5 A, PA, black, without QUICKON nut, 1.5 mm^2, wires cut flat at the end, cable length: 0.5 m

QPD W 2PE1,5 M20 1,0 BK - Panel feed-through

1414691

https://www.phoenixcontact.com/us/products/1414691



Panel feed-through, product family: QPD, connection method: Single wires, number of positions: 2+PE, M20, 0.5 mm^2 ... 1.5 mm^2, 690 V, 17.5 A, PA, black, without QUICKON nut, 1.5 mm^2, cable length: 1 m

QPD W 2PE1,5 M20 FC BK - Panel feed-through

1414692

https://www.phoenixcontact.com/us/products/1414692



Panel feed-through, product family: QPD, connection method: Spade connection (For slip-on sleeves according to DIN 46247-2), number of positions: 2+PE, M20, 0.5 mm^2 ... 1.5 mm^2, 690 V, 15 A, PA, black, without QUICKON nut, 1.5 mm^2

QPD C 2PE1,5 1X4-9 BK - Conductor connectors

1414699

https://www.phoenixcontact.com/us/products/1414699



Conductor connectors, product family: QPD, connection method: IDC connection, number of positions: 2+PE, 0.5 mm^2 ... 1.5 mm^2, 690 V, 17.5 A, PA, black, with one QUICKON nut, external cable diameter: 5 mm ... 7 mm and 7 mm ... 9.5 mm

QPD C 2PE1,5 1X8-13 BK - Conductor connectors

1414701

https://www.phoenixcontact.com/us/products/1414701



Conductor connectors, product family: QPD, connection method: IDC connection, number of positions: 2+PE, 0.5 mm^2 ... 1.5 mm^2, 690 V, 17.5 A, PA, black, with one QUICKON nut, external cable diameter: 10 mm ... 13 mm

QPD H 2PE1,5 BK - H distributor

1414721

https://www.phoenixcontact.com/us/products/1414721

QPD T 2PE1,5 2X4-9 BK - T distributor

1414711

https://www.phoenixcontact.com/us/products/1414711



T distributor, product family: QPD, connection method: IDC connection, number of positions: 2+PE, 0.5 mm^2 ... 1.5 mm^2, 690 V, 17.5 A, PA, black, With two QUICKON nuts, external cable diameter: 5 mm ... 7 mm and 7 mm ... 9.5 mm

QPD T 2PE1,5 2X8-13 BK - T distributor

1414713

https://www.phoenixcontact.com/us/products/1414713



T distributor, product family: QPD, connection method: IDC connection, number of positions: 2+PE, 0.5 mm^2 ... 1.5 mm^2, 690 V, 17.5 A, PA, black, With two QUICKON nuts, external cable diameter: 10 mm ... 13 mm

QSS 22 - Socket wrench

1670206

https://www.phoenixcontact.com/us/products/1670206



Allen wrench, for loosening and fastening the QUICKON union nut, WAF 22 mm

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