QPD H 2PE1,5 4X4-9 BK - H distributor

1414719

https://www.phoenixcontact.com/us/products/1414719

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H 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 four QUICKON nuts, external cable diameter: 5 mm ... 7 mm and 7 mm ... 9.5 mm, with a sealing bolt

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	1414719
Packing unit	1 pc
Minimum order quantity	1 pc
Sales key	BF50
Product key	BF6DAA
Catalog page	Page 472 (C-2-2019)
GTIN	4055626032207
Weight per piece (including packing)	171 g
Weight per piece (excluding packing)	168.3 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

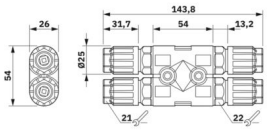
Connection technology

Connection method	IDC connection
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 (QUICKON connections max. 10)

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
External cable diameter ()	5 mm ... 7 mm
	7 mm ... 9.5 mm
Wire diameter including insulation	1.6 mm ... 3 mm
Position marking	1, 2, PE
Material wire insulation	PVC /PE / rubber / TPE

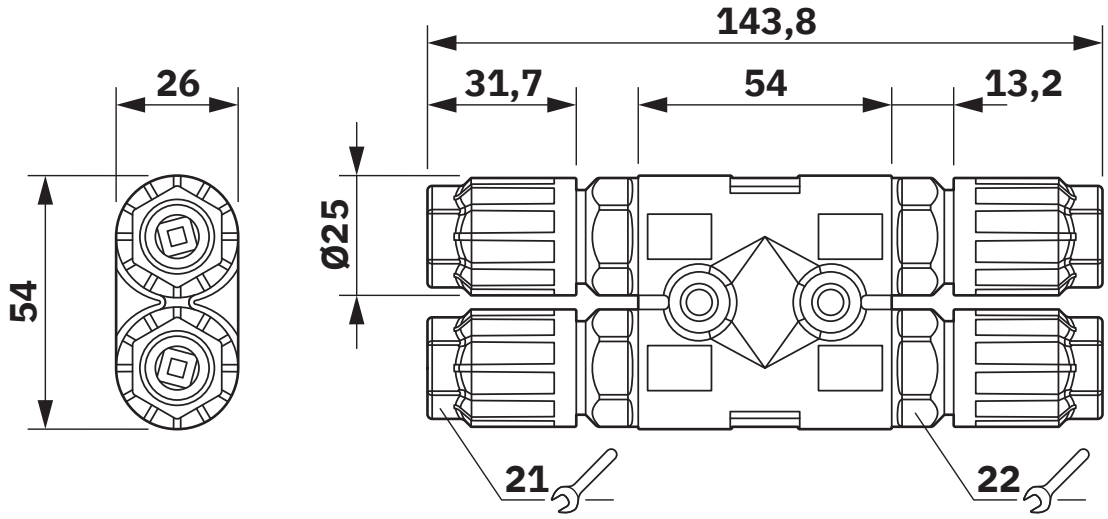
Environmental and real-life conditions

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

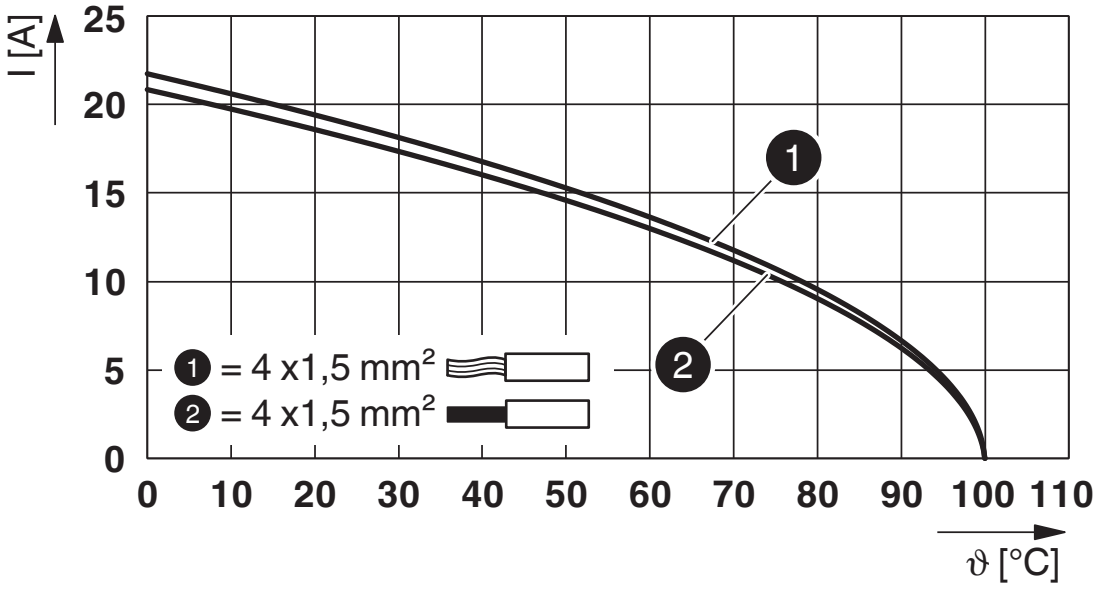
Drawings

Dimensional drawing



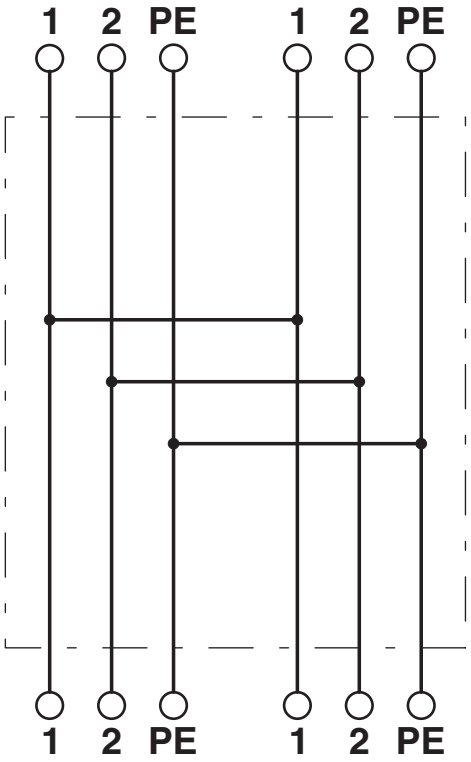
Dimensional drawing

Diagram



Derating diagram

Circuit diagram



Approvals

To download certificates, visit the product detail page: https://www.phoenixcontact.com/us/products/1414719

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%

Accessories

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

1414729

https://www.phoenixcontact.com/us/products/1414729



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

SEALING PLUG 7X16 RD - Closing cap

1400255

https://www.phoenixcontact.com/us/products/1400255

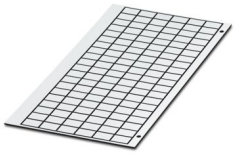


Closing cap, color: red

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 4-9 M20 0,5 BK - Panel feed-through

1414684

https://www.phoenixcontact.com/us/products/1414684



Panel feed-through, product family: QPD, connection method: Single wires/ IDC connection, number of positions: 2+PE, M20, Pin, 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, 1.5 mm^2, cable length: 0.5 m

QPD W 2PE1,5 4-9 M20 1,0 BK - Panel feed-through

1414685

https://www.phoenixcontact.com/us/products/1414685



Panel feed-through, product family: QPD, connection method: Single wires/ IDC connection, number of positions: 2+PE, M20, Pin, 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, 1.5 mm^2, cable length: 1 m

QPD W 2PE1,5 4-9 M20 FC BK - Panel feed-through

1414686

https://www.phoenixcontact.com/us/products/1414686



Panel feed-through, product family: QPD, connection method: Spade connection (For slip-on sleeves according to DIN 46247-2)/ IDC connection, number of positions: 2+PE, M20, Pin, 0.5 mm^2 ... 1.5 mm^2, 690 V, 15 A, PA, black, with QUICKON nut, external cable diameter: 5 mm ... 7 mm and 7 mm ... 9.5 mm, 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

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

1414700

https://www.phoenixcontact.com/us/products/1414700



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 two QUICKON nuts, external cable diameter: 5 mm ... 7 mm and 7 mm ... 9.5 mm

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 H 2PE1,5 4X4-9 BK - H distributor

1414719

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QPD T 2PE1,5 3X4-9 BK - T distributor

1414712

https://www.phoenixcontact.com/us/products/1414712



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 three QUICKON nuts, external cable diameter: 5 mm ... 7 mm and 7 mm ... 9.5 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 H 2PE1,5 4X4-9 BK - H distributor

1414719

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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

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