

IPD PL 5P2,5 F BK - Connector



1088670

<https://www.phoenixcontact.com/in/products/1088670>

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Connector, product family: IPD, connection method: Push-lock connection, number of positions: 4+PE, Socket, 0.5 mm² ... 2.5 mm², 600 V, 17.5 A, PA, black, coding: P, external cable diameter: 7 mm ... 11 mm and 11 mm ... 16 mm

Your advantages

- Easy distribution of power, as components are plugged directly
- Simple, time-saving wiring in the field with Push-Lock connection
- Reliable installation in harsh environments with IP66, IP68, and IP69K throughout the entire system
- Secure, tool-free locking even in particularly difficult installation situations
- Fast commissioning with preassembled cable assemblies

Commercial data

Item number	1088670
Packing unit	1 pc
Minimum order quantity	1 pc
Product key	AF6JCA
GTIN	4055626890876
Weight per piece (including packing)	78.6 g
Weight per piece (excluding packing)	22.22 g
Country of origin	DE

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Technical data

Notes

General

NOTE: Observe the permissible bending radii when routing cables, since the degree of protection may be at risk if the bending forces are too high. Reduce mechanical loads upstream of the connector, e.g., by using cable ties.

Product properties

Product type	Installation connector
Product family	IPD
Number of positions	5
Connection profile	4+PE
Position marking	1, 2, 3, N, PE
Number of connections per position	1
Coding	P

Insulation characteristics

Overvoltage category	III
Degree of pollution	3

Electrical properties

Rated surge voltage (III/3)	6 kV
Rated current	17.5 A
Rated voltage (III/3)	600 V
Nominal voltage U_N	600 V AC 600 V DC
Nominal current I_N	17.5 A

Connection data

Connection technology

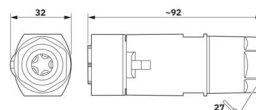
Connection method On the field side	Push-lock connection
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Conductor connection

Conductor cross section flexibel	0.5 mm ² ... 2.5 mm ²
Conductor cross section solid	0.5 mm ² ... 2.5 mm ²
Conductor cross section with ferrule	0.5 mm ² ... 2.5 mm ²
Connection cross section AWG	20 ... 14

Dimensions

Dimensional drawing



IPD PL 5P2,5 F BK - Connector

1088670

<https://www.phoenixcontact.com/in/products/1088670>



Width	32.5 mm
Height	32.1 mm
Length	91.6 mm

Material specifications

Color (Housing)	black (RAL 9005)
Material Housing	PA
Material Seal	NBR
Flammability rating according to UL 94	V0
Contact material	Cu
Contact surface material	Ni/Ag/Sn

Cable/line

External cable diameter	7 mm ... 11 mm
	11 mm ... 16 mm
Position marking	1, 2, 3, N, PE

Mechanical properties

Mechanical data

Insertion/withdrawal cycles	50 (IP66/IP68/IP69K)
	100 (IP66)

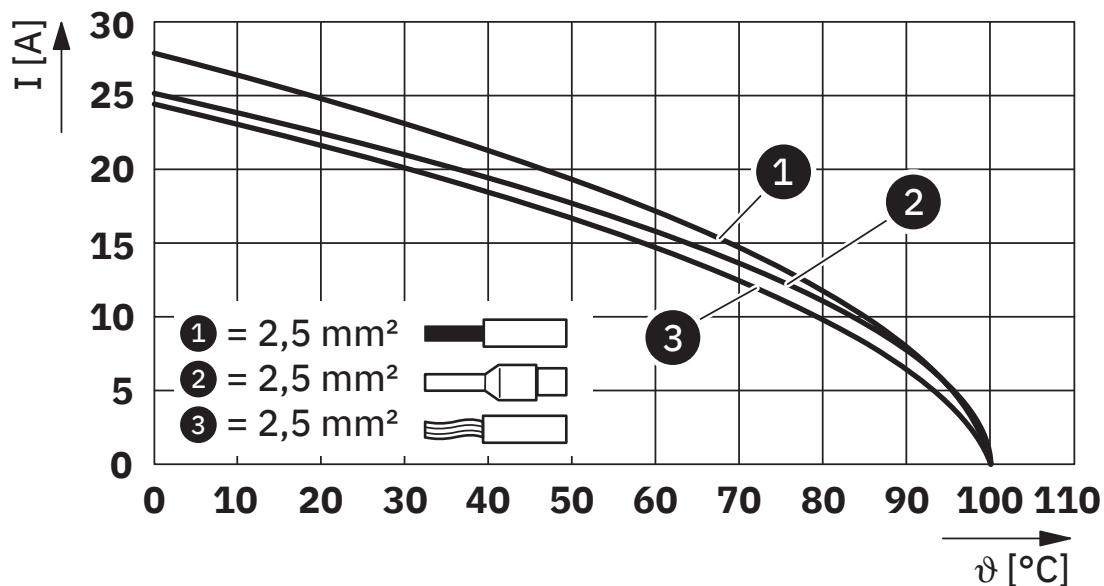
Environmental and real-life conditions

Ambient conditions

Degree of protection	IP66
	IP68 (2 m / 24 h)
	IP69K
	Touch-proof when not plugged in (IP2X)
Impact strength	IK07
Ambient temperature (operation)	-30 °C ... 100 °C
Temperature when conductor connected	-5 °C ... 50 °C
Ambient temperature (storage/transport)	-30 °C ... 100 °C
Resistance to UV radiation	yes

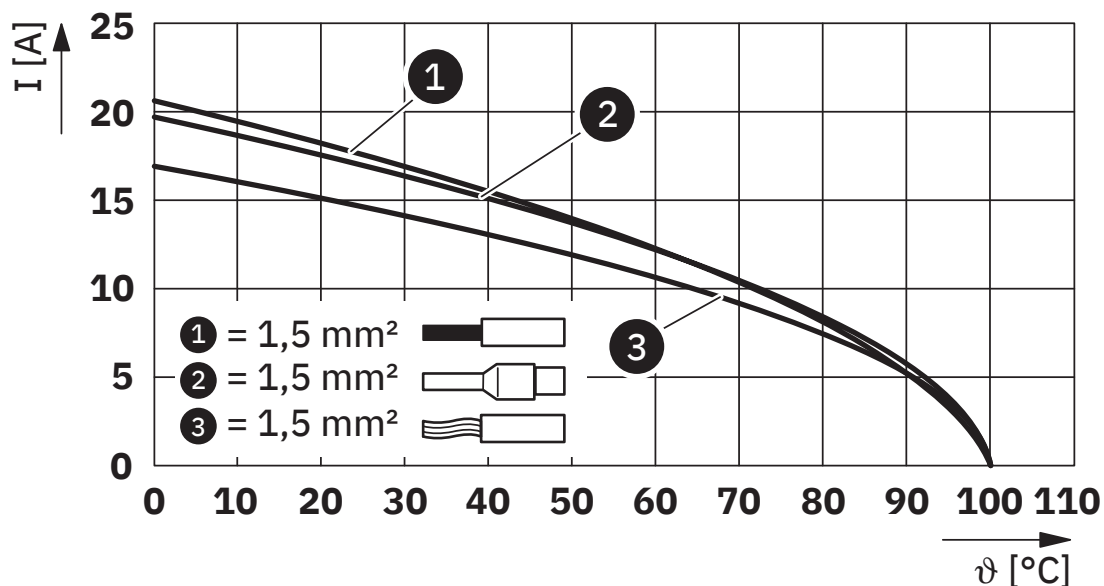
Drawings

Diagram



Derating diagram for 2.5 mm²

Diagram



Derating diagram for 1.5 mm²

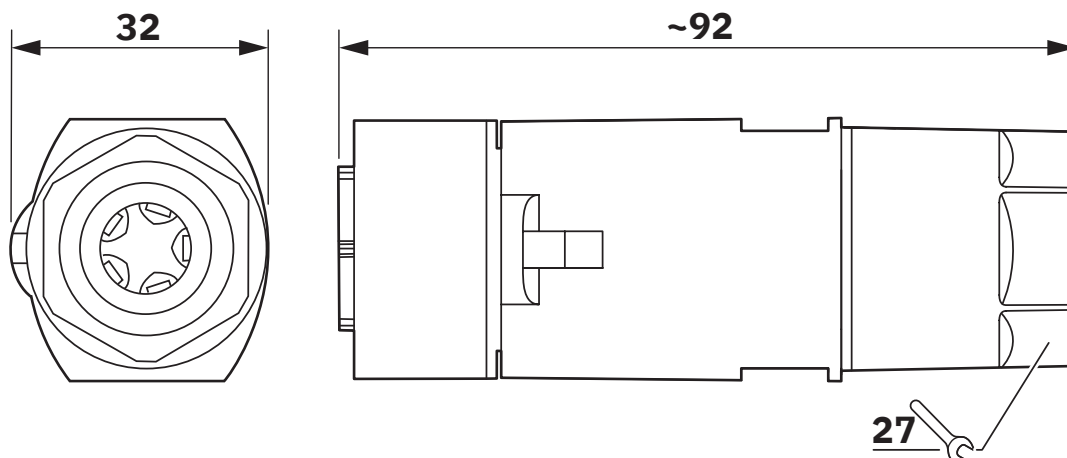
IPD PL 5P2,5 F BK - Connector

1088670

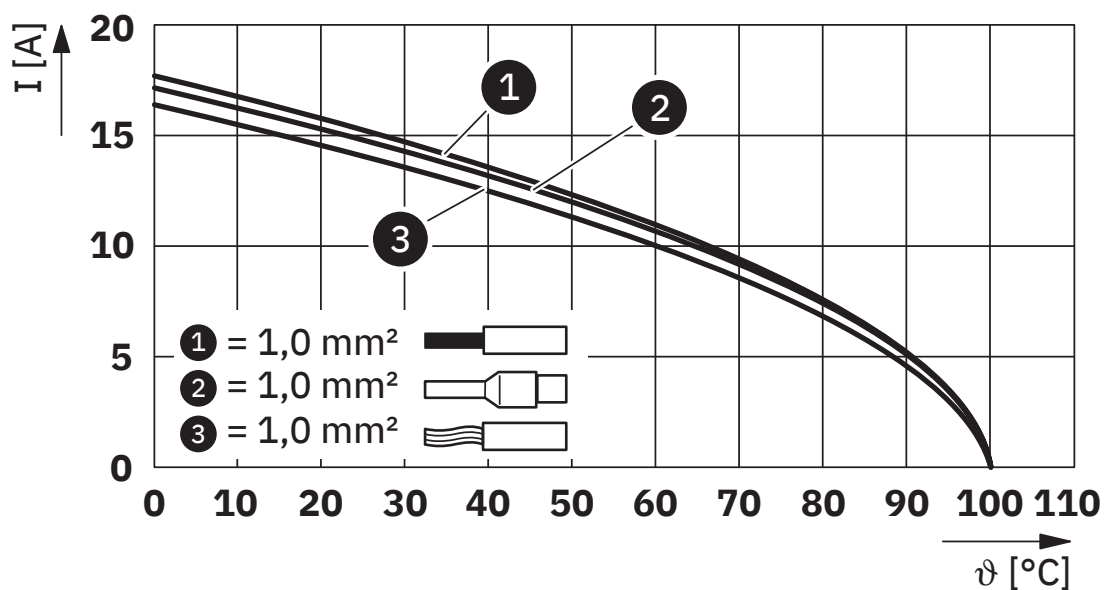
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Dimensional drawing



Diagram



Derating diagram for 1.0 mm²

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Approvals

To download certificates, visit the product detail page: <https://www.phoenixcontact.com/in/products/1088670>

**VDE Zeichengenehmigung**
Approval ID: 40059408

 cULus Listed Approval ID: E468743				
	Nominal voltage U_N	Nominal current I_N	Cross section AWG	Cross section mm^2
Only rigid conductors	600 V	20 A	- 14	-
multi-stranded with ferrule	600 V	20 A	- 14	-

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1088670

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Classifications

ECLASS

ECLASS-11.0	27440605
ECLASS-12.0	27440605
ECLASS-13.0	27440605

ETIM

ETIM 9.0	EC002560
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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%

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Mandatory accessories

IPD P 5P2,5 M BK - Connector

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IPD W 5P2,5 M M25 BK - Panel feed-through

1088685

<https://www.phoenixcontact.com/in/products/1088685>



Panel feed-through, for connectors, product family: IPD, connection method: Push-in connection, number of positions: 4+PE, M25, Pin, 0.5 mm² ... 2.5 mm², 600 V, 17.5 A, PA, black, coding: P

IPD PL 5P2,5 F BK - Connector

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IPD W 5P2,5 M 0,5 M25 BK - Panel feed-through

1088697

<https://www.phoenixcontact.com/in/products/1088697>



Panel feed-through, for connectors, product family: IPD, connection method: Single wires, number of positions: 4+PE, M25, Pin, 450 V, 17.5 A, PA, black, coding: P, 2.5 mm², cable length: 0.5 m

IPD H 5P2,5 BK - H distributor

1499531

<https://www.phoenixcontact.com/in/products/1499531>



H distributor, product family: IPD, number of positions: 4+PE, 600 V, 17.5 A, black, coding: P

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IPD Y 5P2,5 BK - Y distributor

1499533

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Y distributor, product family: IPD, number of positions: 4+PE, 600 V, 17.5 A, black, coding: P

IPD P 5P2,5 M A1,0 PVC GY - Connecting cable

1692859

<https://www.phoenixcontact.com/in/products/1692859>



Connecting cable, product family: IPD, connection method: Push-lock connection, number of positions: 4+PE, Pin, 0.5 mm² ... 2.5 mm², 450 V, 16 A, PA, light gray, coding: P, 2.5 mm², cable length: 1 m, Male straight, on free cable end

Accessories

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SEALING PLUG 10X16 RD - Sealing plug

1400284

<https://www.phoenixcontact.com/in/products/1400284>

Sealing plug, for threads pluggable, color: red



SEALING PLUG 14X22 RD - Sealing plug

1400270

<https://www.phoenixcontact.com/in/products/1400270>

Sealing plug, for threads pluggable, color: red



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ZBF 4:UNBEDRUCKT - Zack Marker strip, flat

0808587

<https://www.phoenixcontact.com/in/products/0808587>

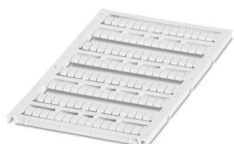


Zack Marker strip, flat, Strip, white, unlabeled, can be labeled with: CMS-P1-PLOTTER, PLOTMARK, mounting type: latching, for terminal block width: 4 mm, Number of individual labels: 10, text field height: 5.2 mm, text field width: 4.2 mm

UC-TMF 4 - Marker for terminal blocks

0818166

<https://www.phoenixcontact.com/in/products/0818166>



Marker for terminal blocks, Sheet, white, unlabeled, can be labeled with: BLUEMARK ID COLOR, BLUEMARK ID, BLUEMARK CLED, PLOTMARK, CMS-P1-PLOTTER, mounting type: latching, for terminal block width: 4.2 mm, Number of individual labels: 120, text field height: 5.1 mm, text field width: 3.6 mm

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UCT-TMF 4 - Marker for terminal blocks

0828742

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Marker for terminal blocks, Sheet, white, unlabeled, can be labeled with: TOPMARK NEO, TOPMARK LASER, BLUEMARK ID COLOR, BLUEMARK ID, BLUEMARK CLED, THERMOMARK PRIME, THERMOMARK CARD 2.0, THERMOMARK CARD, mounting type: latching, for terminal block width: 4.2 mm, Number of individual labels: 90, text field height: 4.7 mm, text field width: 3.4 mm

IPD CAP W32 WP GY - Protective cap

1088710

<https://www.phoenixcontact.com/in/products/1088710>



Protective cap, IPD, without locking element, IP66, IP68, IP69K, width: 32 mm, color: gray, for IPD PL 5P2,5...

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IPD SEAL W32 2XASI - Seal

1698173

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Seal, for connectors, product family: IPD, black, For IPD ... 5P2,5 ..., For IPD ... 5F2,5 ...

IPD SEAL W32 1XASI - Seal

1698174

<https://www.phoenixcontact.com/in/products/1698174>



Seal, for connectors, product family: IPD, black, For IPD ... 5P2,5 ..., For IPD ... 5F2,5 ...

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QSS 27 - Socket wrench

1670646

<https://www.phoenixcontact.com/in/products/1670646>



Allen wrench, for loosening and fastening the QUICKON union nut, WAF 27 mm

SZF 1-0,6X3,5 - Screwdriver

1204517

<https://www.phoenixcontact.com/in/products/1204517>



Actuation tool, for ST terminal blocks, also suitable for use as a bladed screwdriver, size: 0.6 x 3.5 x 100 mm, 2-component grip, with non-slip grip

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CRIMPFOX VARIO 4S - Crimping pliers

1108766

<https://www.phoenixcontact.com/in/products/1108766>



Crimping pliers, contact connection type: Insulated and uninsulated ferrules, min. cross section: 0.25 mm², max. cross section: 4 mm², compression: Square crimp, weight 401 g, black/green

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