

# IPD PL 3P2,5 F BK - Connector

1088666

<https://www.phoenixcontact.com/us/products/1088666>

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Connector, connection method: Push-lock connection, number of positions: 2+PE, Socket, 0.5 mm<sup>2</sup> ... 2.5 mm<sup>2</sup>, 500 V, 20 A, black, coding: P, external cable diameter: 6 mm ... 9 mm and 8 mm ... 13 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	1088666
Packing unit	1 pc
Minimum order quantity	1 pc
Sales key	BF51
Product key	AF6JAA
GTIN	4055626890838
Weight per piece (including packing)	53 g
Weight per piece (excluding packing)	53 g
Customs tariff number	85366990
Country of origin	DE

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## Technical data

### Notes

Assembly note	<b>NOTE:</b> 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.
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### Product properties

Product type	Installation connector
Product family	IPD
Number of positions	3
Connection profile	2+PE
Position marking	L, 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	20 A
Rated voltage (III/3)	500 V
Nominal voltage $U_N$	500 V AC
	500 V DC
Nominal current $I_N$	20 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 <sup>2</sup> ... 2.5 mm <sup>2</sup>
Conductor cross-section solid	0.5 mm <sup>2</sup> ... 2.5 mm <sup>2</sup>
Conductor cross-section with ferrule	0.5 mm <sup>2</sup> ... 2.5 mm <sup>2</sup>
Connection cross section AWG	20 ... 14

### Dimensions

Dimensional drawing	
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Width	26.5 mm
Height	26.9 mm
Length	85.9 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	6 mm ... 9 mm
	8 mm ... 13 mm
Position marking	L, 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

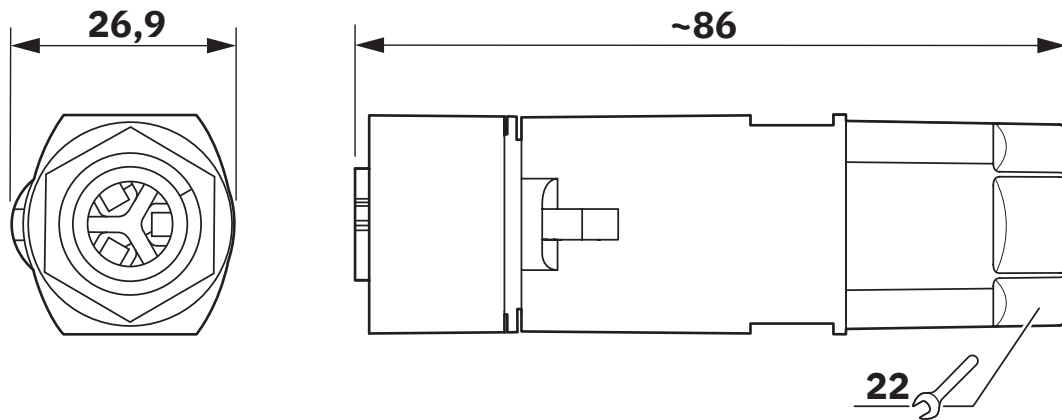
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## Drawings

Dimensional drawing



Diagram

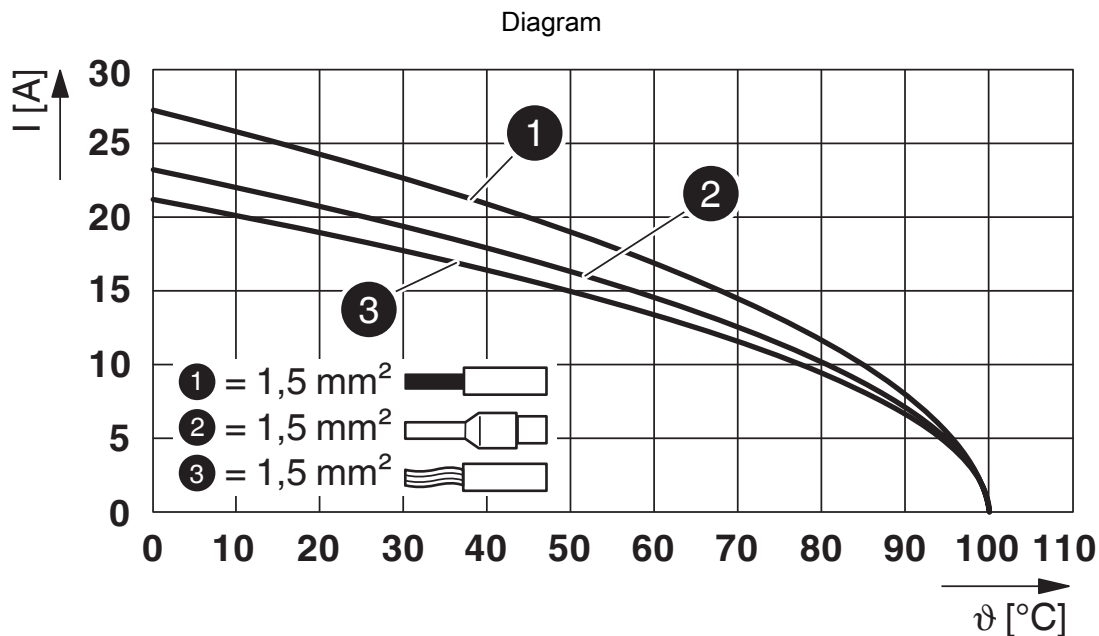


Derating diagram for 1.0 mm<sup>2</sup>

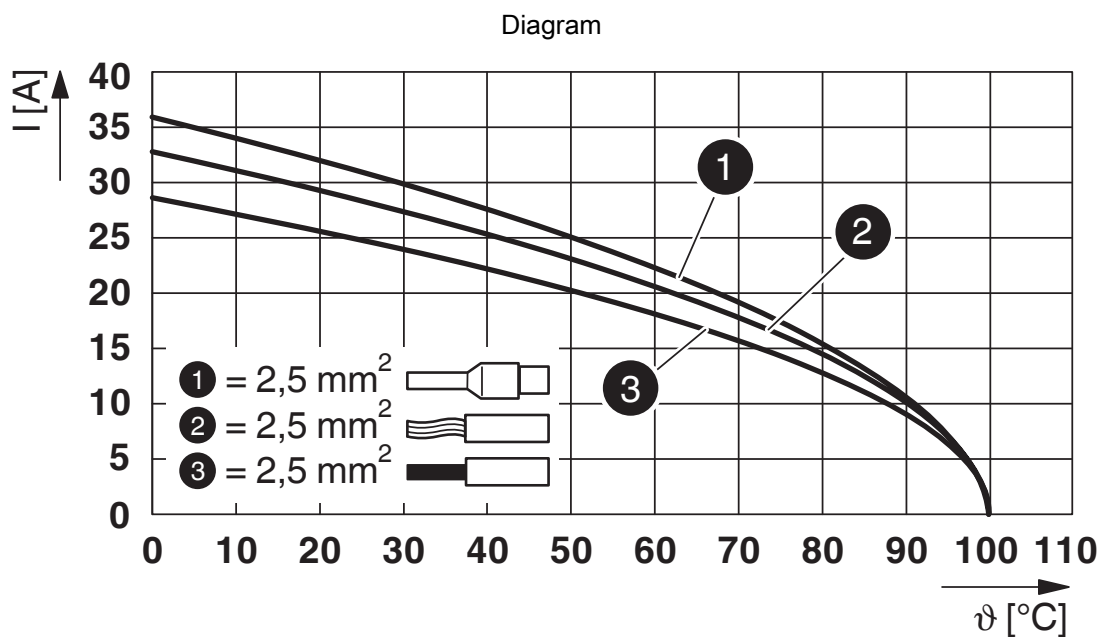
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Derating diagram for 1.5 mm<sup>2</sup>



Derating diagram for 2.5 mm<sup>2</sup>

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## Approvals

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### VDE Zeichengenehmigung

Approval ID: 40059408



### cULus Listed

Approval ID: E468743

	Nominal voltage $U_N$	Nominal current $I_N$	Cross section AWG	Cross section $\text{mm}^2$
keine				
Only rigid conductors	600 V	20 A	- 14	-
multi-stranded with ferrule	600 V	20 A	- 14	-
Only flexible conductors	600 V	20 A	- 14	-

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## Classifications

### ECLASS

ECLASS-13.0	27440605
ECLASS-15.0	27440605

### ETIM

ETIM 10.0	EC002560
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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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