

# 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, PA, 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

### 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

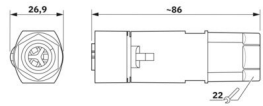
#### Connection technology

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	
Width	26.5 mm
Height	26.9 mm
Length	85.9 mm

### Material specifications

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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

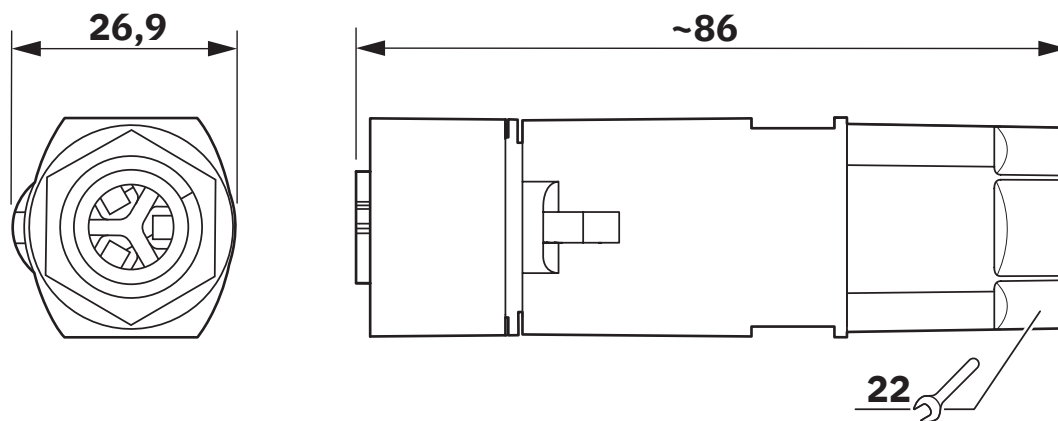
# IPD PL 3P2,5 F BK - Connector

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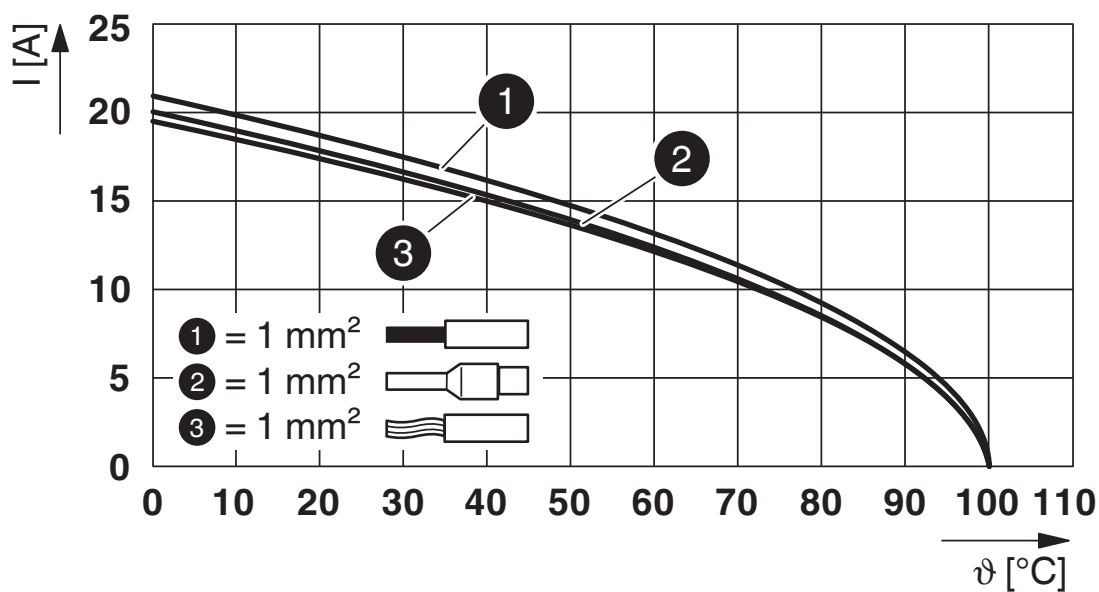
<https://www.phoenixcontact.com/us/products/1088666>

## Drawings

Dimensional drawing



Diagram

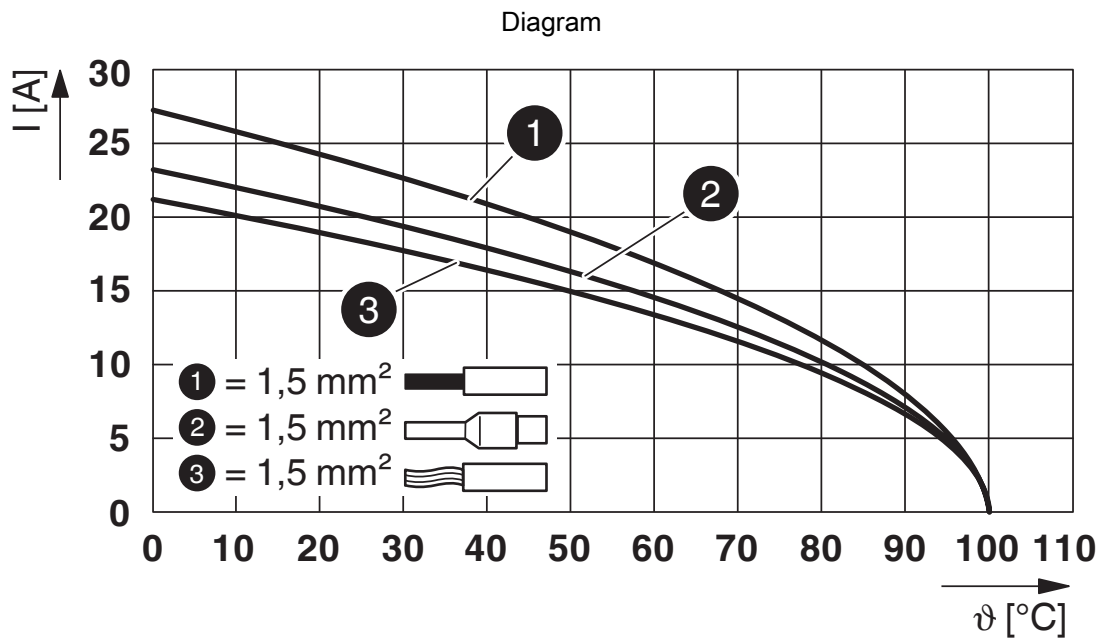


Derating diagram for 1.0 mm<sup>2</sup>

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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

To download certificates, visit the product detail page: <https://www.phoenixcontact.com/us/products/1088666>



### 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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