# IPD PL 5P2,5 M BK - Connector

1088668

https://www.phoenixcontact.com/us/products/1088668

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Connector, connection method: Push-lock connection, number of positions: 4+PE, Pin, 0.5 $mm^2$ . .. 2.5 $mm^2$, 600 V, 17.5 A, 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 | 1088668 |
| Packing unit | 1 pc |
| Minimum order quantity | 1 pc |
| Sales key | BF51 |
| Product key | AF6JCA |
| GTIN | 4055626890852 |
| Weight per piece (including packing) | 78 g |
| Weight per piece (excluding packing) | 22.22 g |
| Customs tariff number | 85366990 |
| Country of origin | DE |

## Technical data

### Notes

| | |
|---|---|
| Assembly note | 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

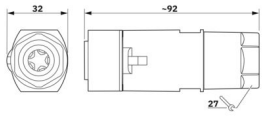
Connection technology

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

Conductor connection

| | |
|---|---|
| Conductor cross-section flexibel | 0.5 mm² ... 2.5 mm² |
| Conductor cross-section solid | 0.5 mm² ... 2.5 mm² |
| Conductor cross-section with ferrule | 0.5 mm² ... 2.5 mm² |
| Connection cross section AWG | 20 ... 14 |

### Dimensions

| | |
|---|---|
| Dimensional drawing |   |

| | |
|---|---|
| Width | 32.5 mm |
| Height | 32.1 mm |
| Length | 91.7 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) |

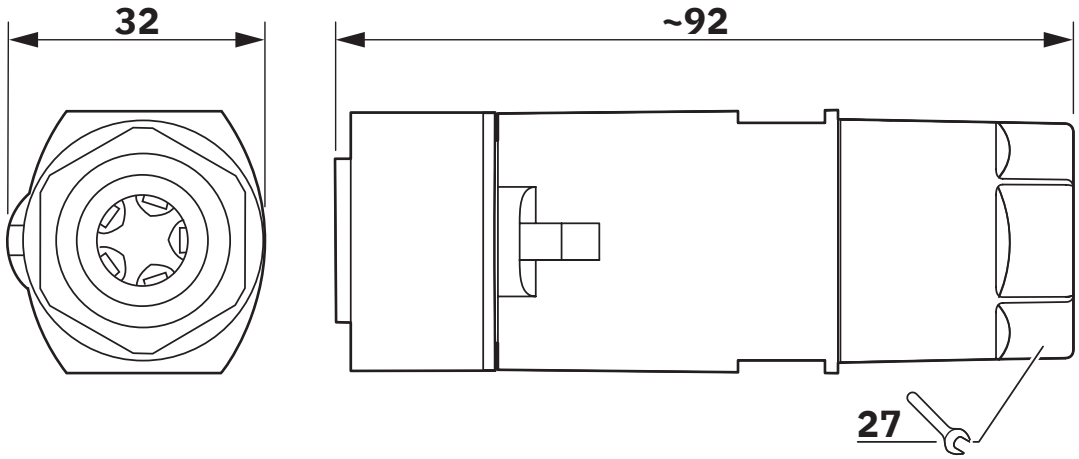
## Environmental and real-life conditions

Ambient conditions

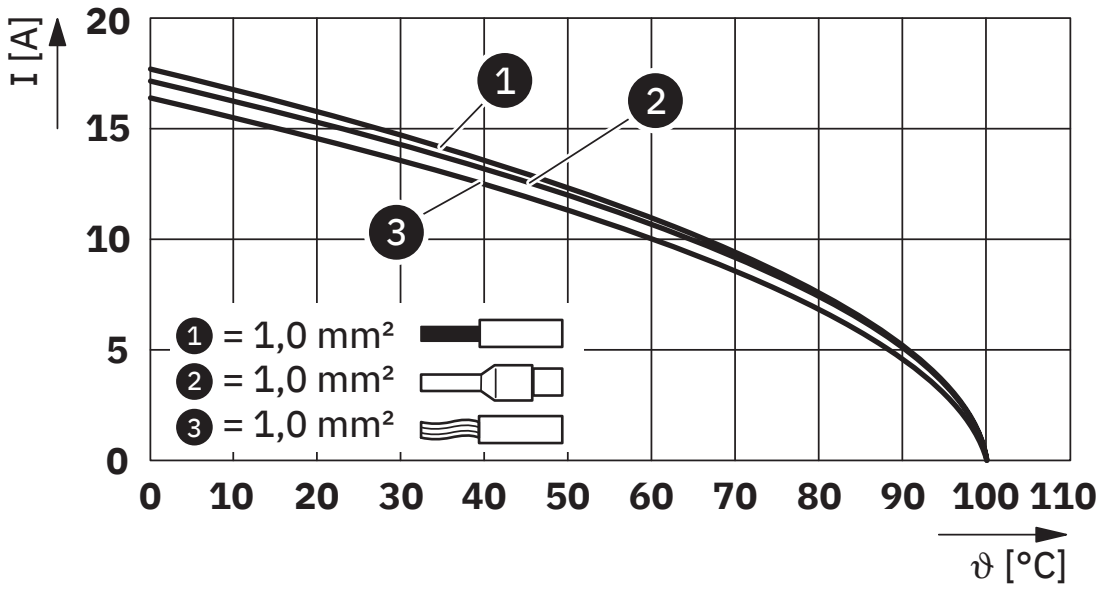
| | |
|---|---|
| Degree of protection | IP66 |
| | IP68 (2 m / 24 h) |
| | IP69K |
| | Touch-proof when not plugged in (IP2X) |
| Impact strength | IK07 |
| Ambient temperature (operation) | -30 °C ... 100 °C |
| Temperature when conductor connected | -5 °C ... 50 °C |
| Ambient temperature (storage/transport)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

## Drawings

Dimensional drawing

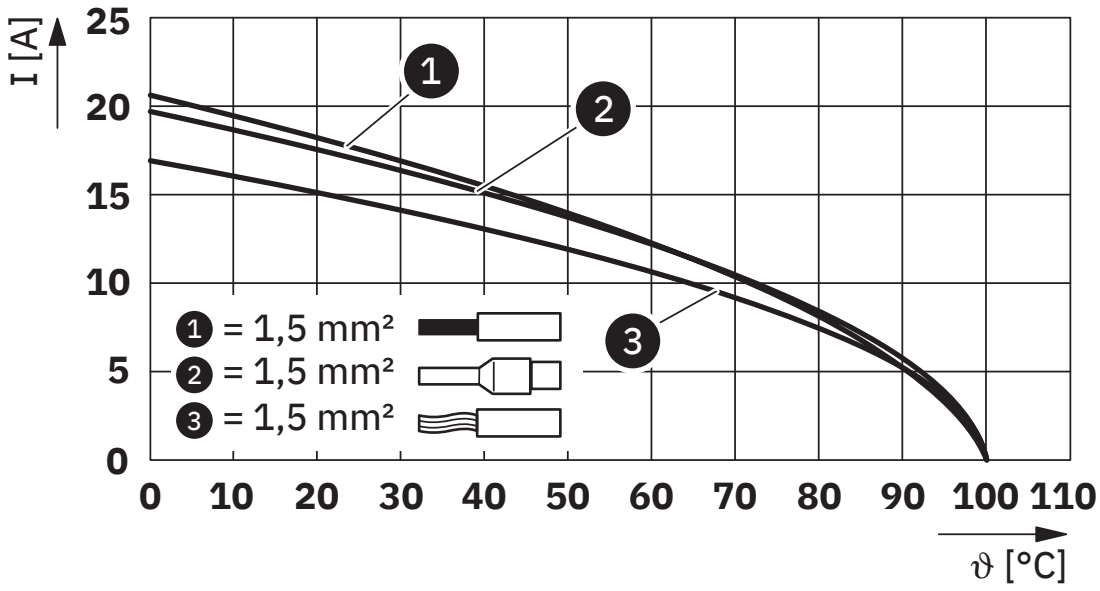



Diagram



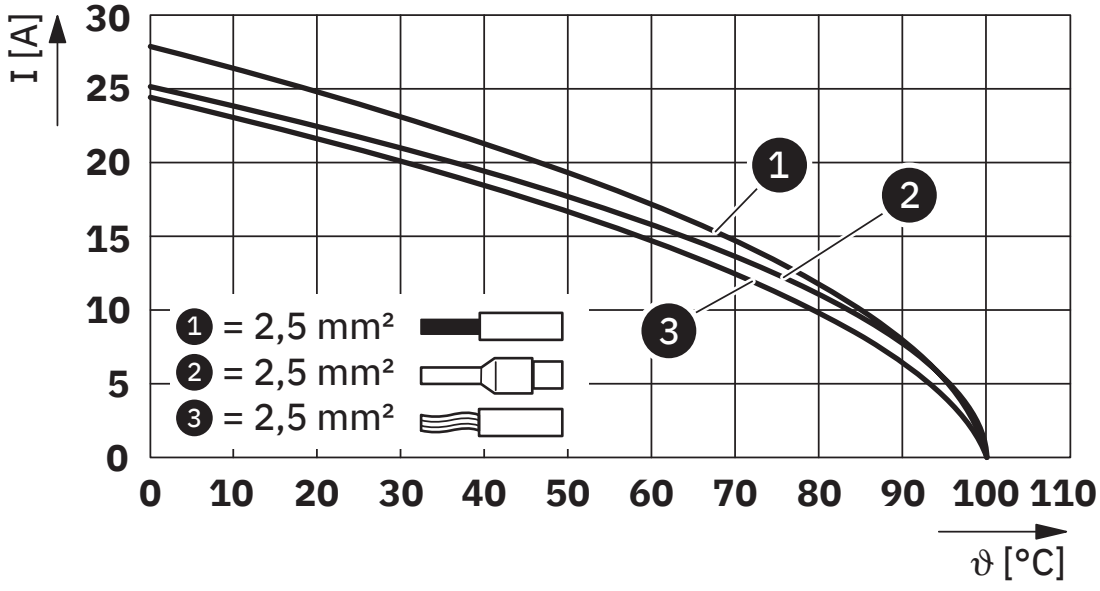

Derating diagram for 1.0 mm$^2$

Diagram




Derating diagram for 1.5 mm$^2$

Diagram




Derating diagram for 2.5 mm$^2$

## Approvals

To download certificates, visit the product detail page: https://www.phoenixcontact.com/us/products/1088668

**VDE Zeichengenehmigung**
Approval ID: 40059408

**cULus Listed**
Approval ID: E468743

| | Nominal voltage $U_N$ | Nominal current $I_N$ | Cross section AWG | Cross section $mm^2$ |
|---|---|---|---|---|
| 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 | - |

## Classifications

### ECLASS

| | |
|---|---|
| ECLASS-13.0 | 27440605 |
| ECLASS-15.0 | 27440605 |

### ETIM

| | |
|---|---|
| ETIM 10.0 | EC002560 |

### 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% |

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