

# IPD PL 3P2,5 M A1,0 F PVC GY - Connecting cable



1526873

<https://www.phoenixcontact.com/gb/products/1526873>

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Connecting cable, product family: IPD/ Push-lock connection, number of positions: 2+PE, Socket/pin, 450 V, 16 A, PA, light gray, coding: P, 2.5 mm<sup>2</sup>, cable length: 1 m, Male straight, on Socket straight

## 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                          | 1526873       |
| Packing unit                         | 1 pc          |
| Minimum order quantity               | 1 pc          |
| Sales key                            | AF6NAA        |
| Product key                          | AF6NAA        |
| GTIN                                 | 4063151996635 |
| Weight per piece (including packing) | 243.5 g       |
| Weight per piece (excluding packing) | 243.5 g       |
| Customs tariff number                | 85444290      |
| Country of origin                    | PL            |

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## Technical data

### Notes

|                    |   |
|--------------------|---|
| General            | <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. |
| Order information: | This item is also available with other cable lengths. For your specific requirements, please contact your local PHOENIX CONTACT subsidiary.   |

### Product properties

|                                    |                              |
|------------------------------------|------------------------------|
| Product type                       | Assembled installation cable |
| 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

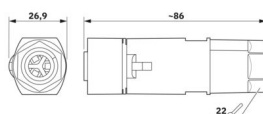
|                             |  |
|-----------------------------|--|
| Rated surge voltage (III/3) | 6 kV   |
| Rated current               | 16 A (in accordance with IEC 61984)  |
| Rated voltage (III/3)       | 450 V (flexible installation)<br>500 V (Fixed, protected installation)             |
| Nominal voltage $U_N$       | 450 V AC/DC (flexible installation)<br>500 V AC/DC (Fixed, protected installation) |
| Nominal current $I_N$       | 16 A (in accordance with IEC 61984)  |

### Connection data

#### Connection technology

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

### Dimensions

|                     |  |
|---------------------|--|
| Dimensional drawing |  |
| Width               | 26.5 mm  |
| Height              | 26.9 mm  |

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|        |         |
|--------|---------|
| Length | 85.9 mm |
|--------|---------|

## Material specifications

|                          |                       |
|--------------------------|-----------------------|
| Color (Housing)          | light gray (RAL 7035) |
| Material Housing         | PA                    |
| Material Seal            | NBR                   |
| Contact material         | Cu                    |
| Contact surface material | Ni/Ag/Sn              |

## Cable/line

|   |  |
|---|--|
| Cable length  | 1 m  |
| Structure of individual litz in acc. with VDE 0295 / smallest wire diameter | Class 5 in accordance with IEC 60228           |
| External cable diameter   | 9.6 mm   |
| Position marking  | L, N, PE                                       |
| Single wire, color  | brown L, blue N, green-yellow PE               |
| Cable cross section   | 2.5 mm <sup>2</sup>                            |
| Material wire insulation  | PVC  |
| Minimum bending radius, fixed installation                                  | 4 x D  |
| Minimum bending radius, flexible installation                               | 15 x D   |
| Ambient temperature (operation)   | -30 °C ... 80 °C (cable, fixed installation)   |
|   | -5 °C ... 70 °C (Cable, flexible installation) |

## Mechanical properties

### Mechanical data

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

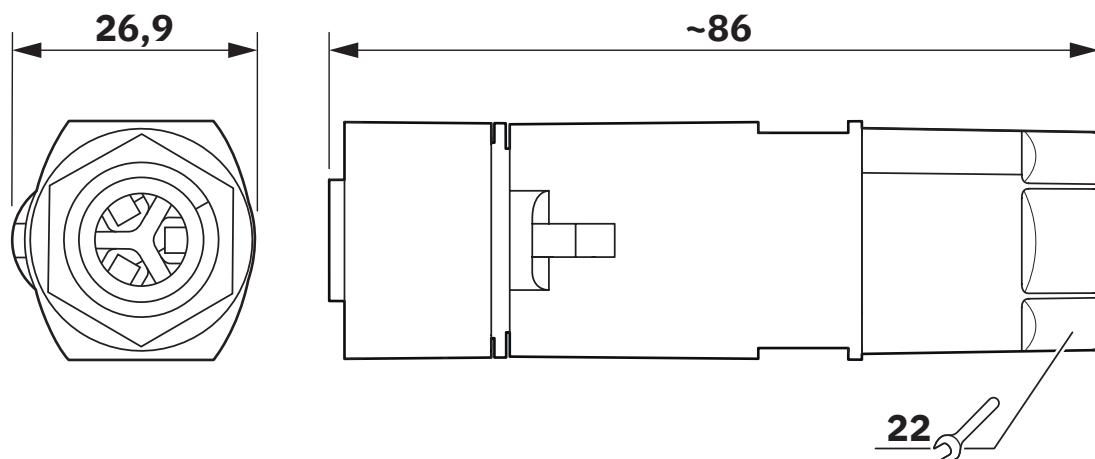
## Environmental and real-life conditions

### Ambient conditions

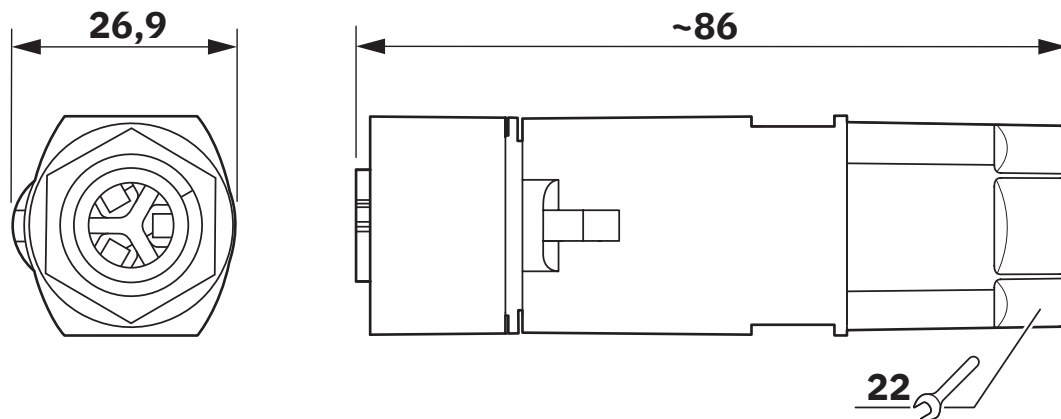
|                                      |  |
|--------------------------------------|--|
| Degree of protection                 | IP66   |
|                                      | IP68 (2 m / 24 h)                              |
|                                      | IP69K (Distance from the nozzle 150 mm)        |
|                                      | Touch-proof when not plugged in (IP2X)         |
| Impact strength                      | IK07   |
| Ambient temperature (operation)      | -5 °C ... 70 °C (Cable, flexible installation) |
|                                      | -30 °C ... 80 °C (cable, fixed installation)   |
|                                      | -30 °C ... 100 °C (Plug)                       |
| Temperature when conductor connected | -5 °C ... 50 °C                                |
| Resistance to UV radiation           | no   |

## Drawings

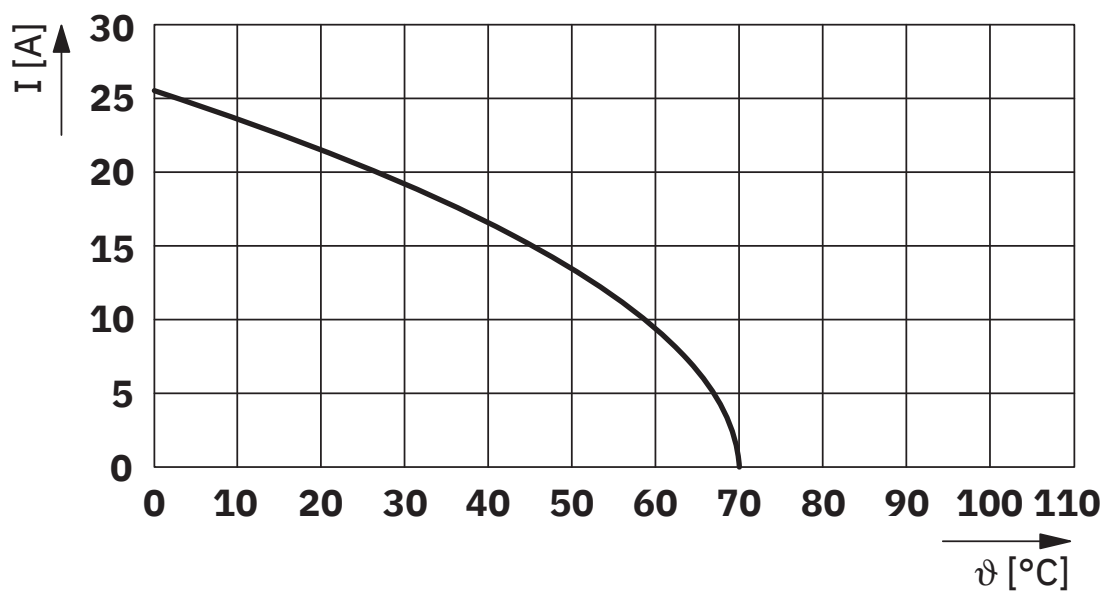
Dimensional drawing



Dimensional drawing

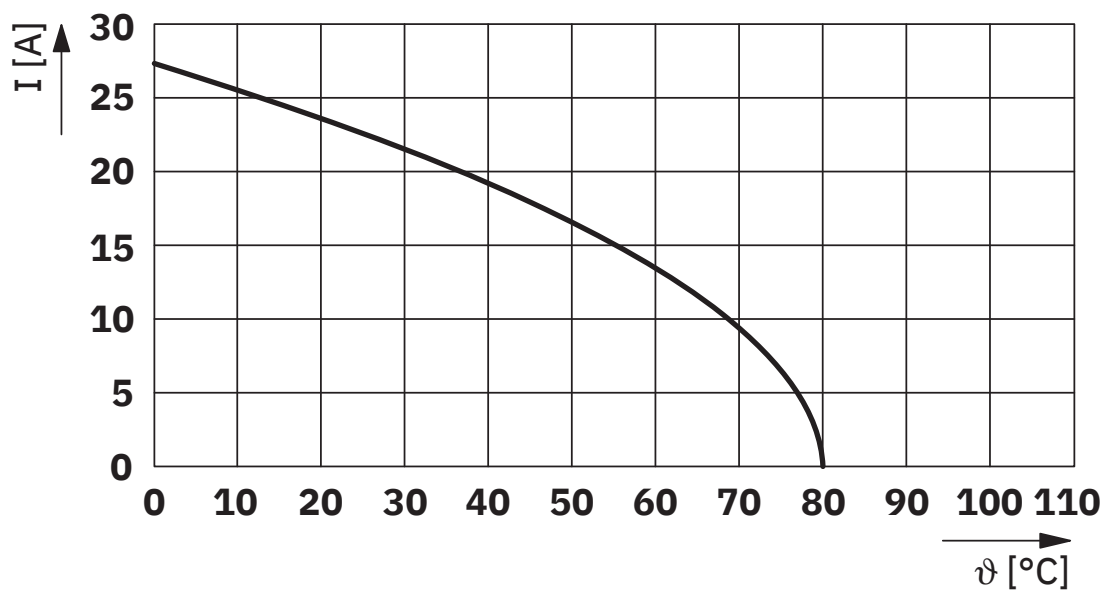


Diagram



Derating diagram for cable, flexible installation

Diagram



Derating diagram for cable, fixed installation

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## Classifications

### ECLASS

|             |          |
|-------------|----------|
| ECLASS-11.0 | 27440604 |
| ECLASS-12.0 | 27440604 |
| ECLASS-13.0 | 27440604 |

### ETIM

|          |          |
|----------|----------|
| ETIM 9.0 | EC002587 |
|----------|----------|

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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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