

# IPD PL 3P2,5 F A5,0 PVC GY - Connecting cable



1526869

<https://www.phoenixcontact.com/us/products/1526869>

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Connecting cable, product family: IPD/ Push-lock connection, number of positions: 2+PE, Socket, 0.5 mm<sup>2</sup> ... 2.5 mm<sup>2</sup>, 450 V, 16 A, PA, light gray, coding: P, 2.5 mm<sup>2</sup>, cable length: 5 m, Socket straight, on free cable end

## 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	1526869
Packing unit	1 pc
Minimum order quantity	1 pc
Sales key	BF51
Product key	BF6NAA
GTIN	4063151995362
Weight per piece (including packing)	817.3 g
Weight per piece (excluding packing)	22.22 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 family	IPD
Number of positions	3
Connection profile	2+PE
Position marking	L, N, PE
Number of connections per position	1
Coding	P

### Data management status

Article revision	02
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### 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)
	500 V (Fixed, protected installation)
Nominal voltage $U_N$	450 V AC/DC (flexible installation)
	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
Frequency of connections between conductors of the same cross section	max. 10

#### 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

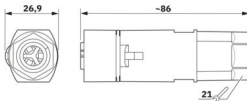
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## Dimensions

Dimensional drawing	
Width	26.5 mm
Height	26.9 mm
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	5 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)
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## 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

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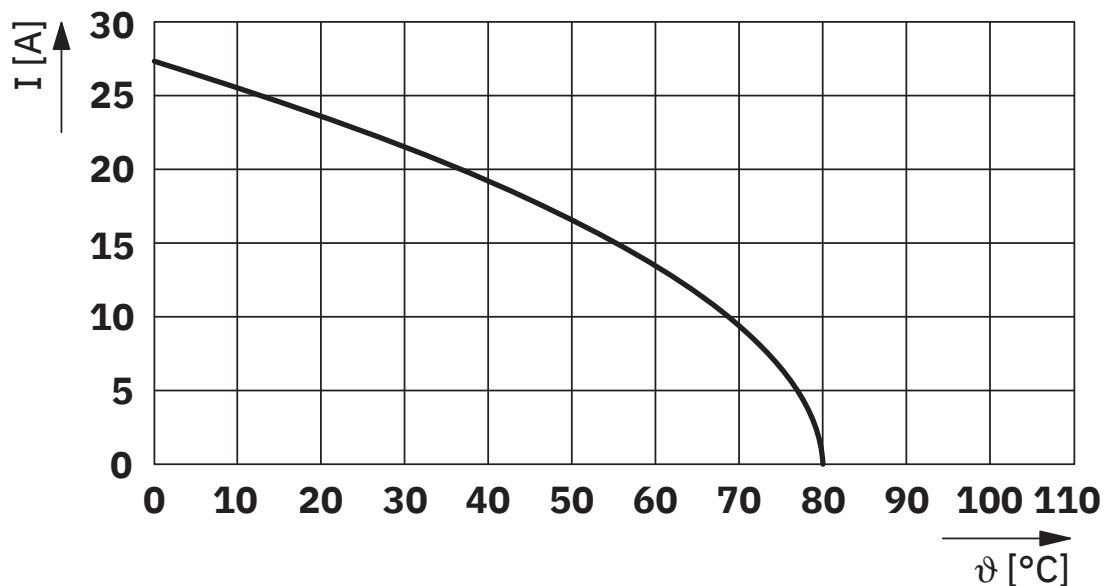
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Ambient temperature (operation)	-5 °C ... 70 °C (Cable, flexible installation)
	-30 °C ... 80 °C (cable, fixed installation)
	-30 °C ... 100 °C (Plug)
Temperature when conductor connected	-5 °C ... 50 °C
Resistance to UV radiation	no

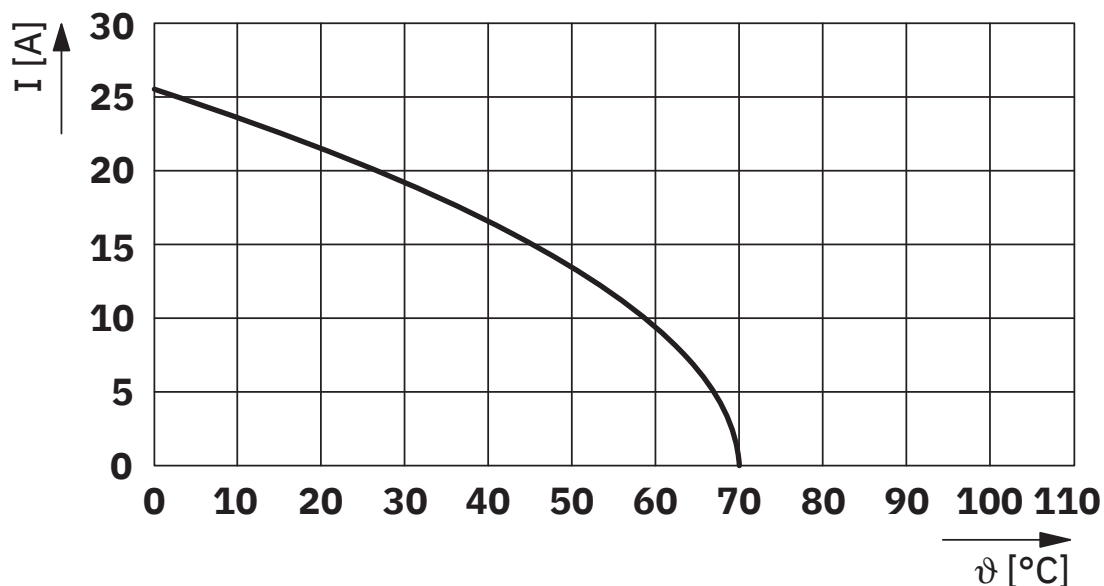
## Drawings

Diagram



Derating diagram for cable, fixed installation

Diagram



Derating diagram for cable, flexible installation

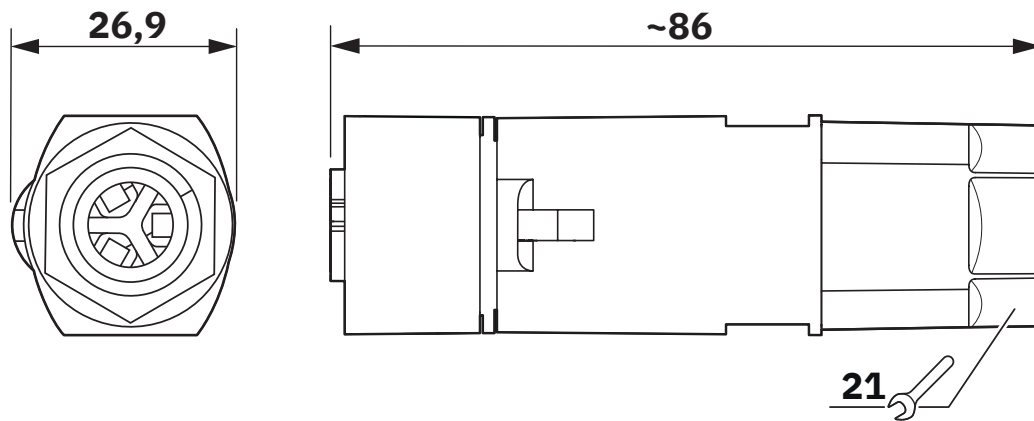
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Dimensional drawing



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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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