IPD P 5P2,5 F GY - Connector

1088677

https://www.phoenixcontact.com/in/products/1088677

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Connector, product family: IPD, connection method: Push-lock connection, number of positions: 4+PE, Socket, 0.5 mm^2 ... 2.5 mm^2, 600 V, 17.5 A, PA, light gray, 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	1088677
Packing unit	1 pc
Minimum order quantity	1 pc
Product key	AF6JCA
GTIN	4055626890944
Weight per piece (including packing)	73.6 g
Weight per piece (excluding packing)	22.22 g
Country of origin	DE

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Technical data

Notes

General	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	
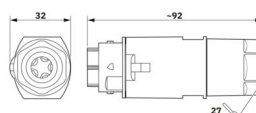
Width	32.5 mm
Height	32.1 mm
Length	91.6 mm

Material specifications

Color (Housing)	light gray (RAL 7035)
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

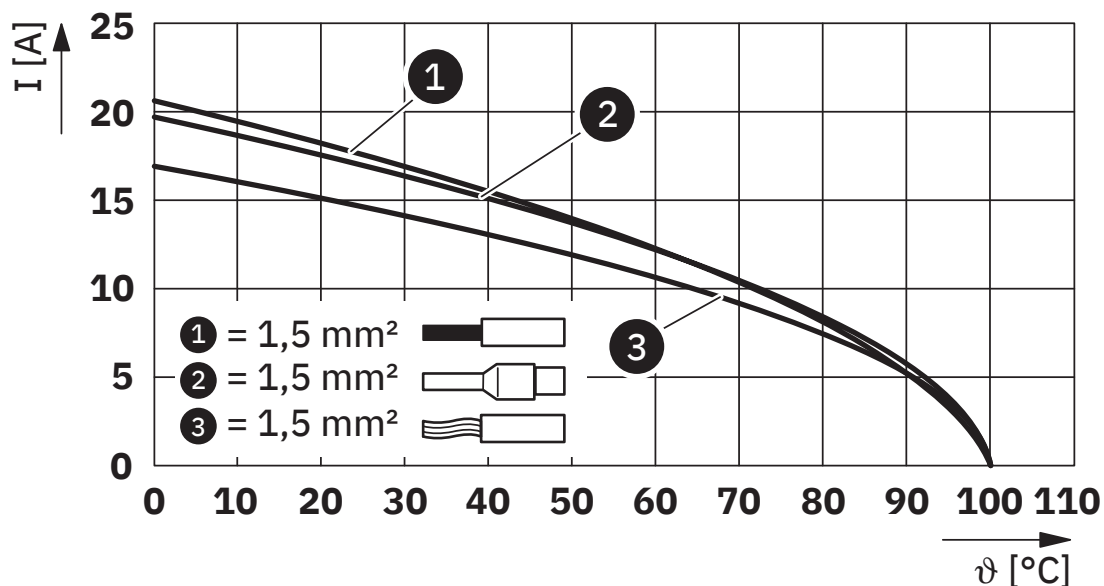| Degree of protection	IP66
	IP68 (2 m / 24 h)
	IP69K
	Touch-proof when not plugged in (IP2X)
Impact strength	IK07
Ambient temperature (operation)	-30 °C ... 100 °C
Temperature when conductor connected	-5 °C ... 50 °C
Ambient temperature (storage/transport)	-30 °C ... 100 °C
Resistance to UV radiation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

Drawings

Diagram
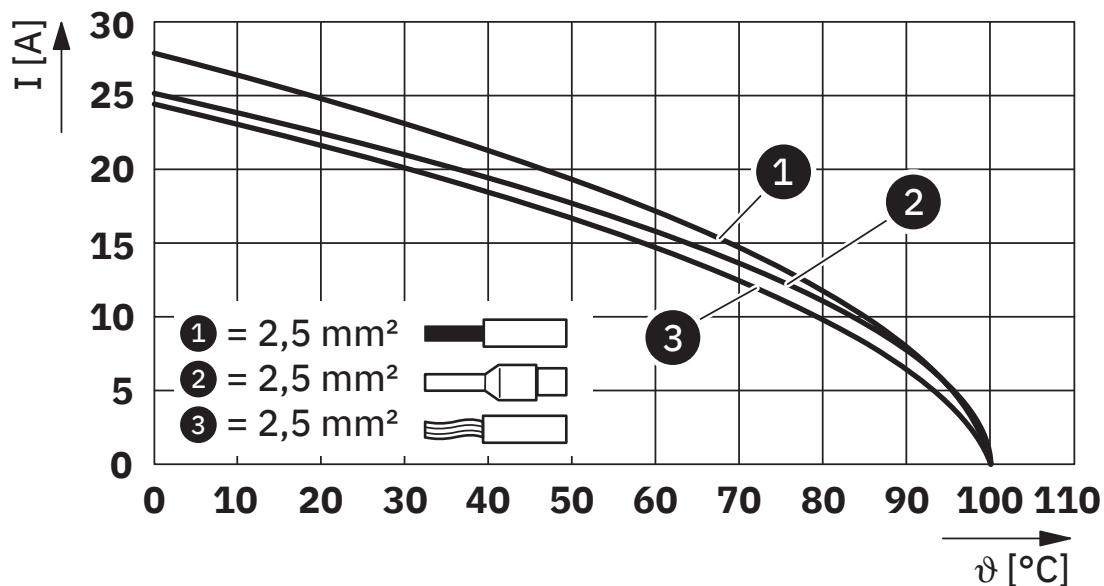
Derating diagram for 2.5 mm^2

Diagram

Derating diagram for 1.5 mm^2

Dimensional drawing

32 **~92**

27

Diagram

I [A]

1 = 1,0 mm²
2 = 1,0 mm²
3 = 1,0 mm²

0   10   20   30   40   50   60   70   80   90   100   110

ϑ [°C]
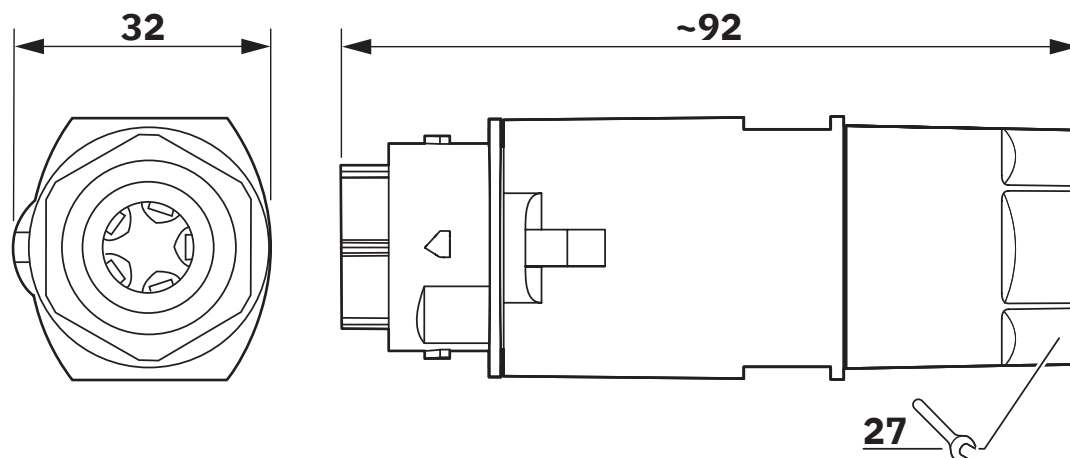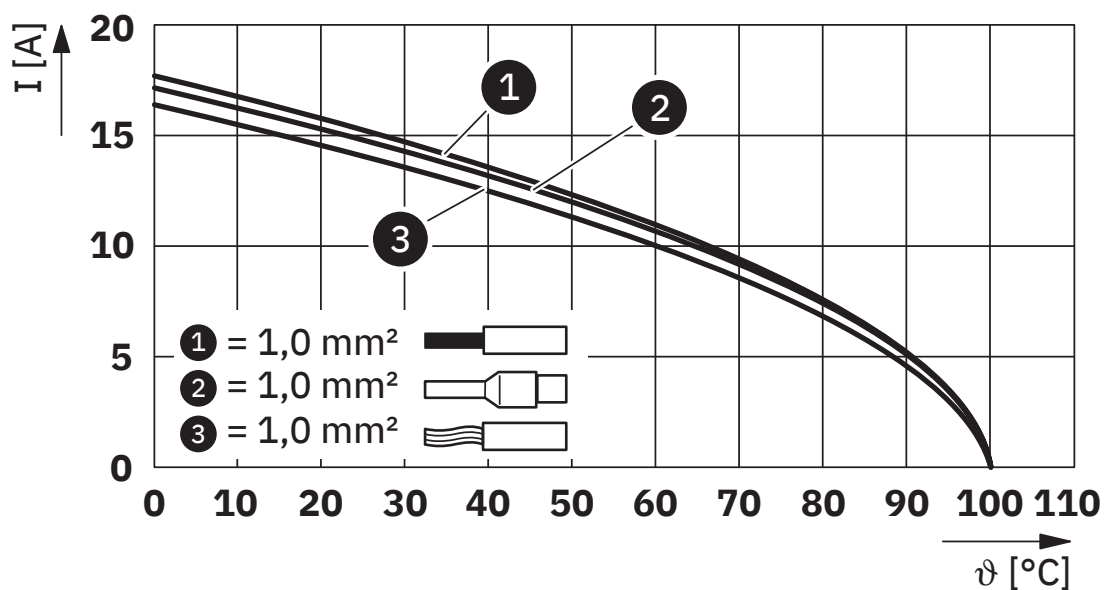
Derating diagram for 1.0 mm²

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Approvals

To download certificates, visit the product detail page: https://www.phoenixcontact.com/in/products/1088677

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
Only rigid conductors	600 V	20 A	- 14	-
multi-stranded with ferrule	600 V	20 A	- 14	-

Classifications

ECLASS

ECLASS-11.0	27440605
ECLASS-12.0	27440605
ECLASS-13.0	27440605

ETIM

ETIM 9.0	EC002560

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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Mandatory accessories

IPD PL 5P2,5 M GY - Connector

1088676

https://www.phoenixcontact.com/in/products/1088676

Connector, product family: IPD, connection method: Push-lock connection, number of positions: 4+PE, Pin, 0.5 mm^2 ... 2.5 mm^2, 600 V, 17.5 A, PA, light gray, coding: P, external cable diameter: 7 mm ... 11 mm and 11 mm ... 16 mm

IPD PL 5P2,5 M A0,5 PVC GY - Connecting cable

1526876

https://www.phoenixcontact.com/in/products/1526876

Connecting cable, product family: IPD/ Push-lock connection, number of positions: 4+PE, Pin, 0.5 mm^2 ... 2.5 mm^2, 450 V, 16 A, PA, light gray, coding: P, 2.5 mm^2, cable length: 0.5 m, Male straight, on free cable end

IPD P 5P2,5 F GY - Connector

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

1526877

https://www.phoenixcontact.com/in/products/1526877

Connecting cable, product family: IPD/ Push-lock connection, number of positions: 4+PE, Pin, 0.5 mm^2 ... 2.5 mm^2, 450 V, 16 A, PA, light gray, coding: P, 2.5 mm^2, cable length: 1 m, Male straight, on free cable end

IPD PL 5P2,5 M A3,0 PVC GY - Connecting cable

1526878

https://www.phoenixcontact.com/in/products/1526878

Connecting cable, product family: IPD/ Push-lock connection, number of positions: 4+PE, Pin, 0.5 mm^2 ... 2.5 mm^2, 450 V, 16 A, PA, light gray, coding: P, 2.5 mm^2, cable length: 3 m, Male straight, on free cable end

IPD P 5P2,5 F GY - Connector

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IPD PL 5P2,5 M A5,0 PVC GY - Connecting cable

1526879

https://www.phoenixcontact.com/in/products/1526879

Connecting cable, product family: IPD/ Push-lock connection, number of positions: 4+PE, Pin, 0.5 mm^2 ... 2.5 mm^2, 450 V, 16 A, PA, light gray, coding: P, 2.5 mm^2, cable length: 5 m, Male straight, on free cable end

IPD PL 5P2,5 M A0,5 F PVC GY - Connecting cable

1526887

https://www.phoenixcontact.com/in/products/1526887

Connecting cable, product family: IPD/ Push-lock connection, number of positions: 4+PE, Socket/pin, 0.5 mm^2 ... 2.5 mm^2, 450 V, 16 A, PA, light gray, coding: P, 2.5 mm^2, cable length: 0.5 m, Male straight, on Socket straight

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

1526889

https://www.phoenixcontact.com/in/products/1526889

Connecting cable, product family: IPD/ Push-lock connection, number of positions: 4+PE, Socket/pin, 0.5 mm^2 ... 2.5 mm^2, 450 V, 16 A, PA, light gray, coding: P, 2.5 mm^2, cable length: 1 m, Male straight, on Socket straight

IPD PL 5P2,5 M A3,0 F PVC GY - Connecting cable

1526891

https://www.phoenixcontact.com/in/products/1526891

Connecting cable, product family: IPD/ Push-lock connection, number of positions: 4+PE, Socket/pin, 0.5 mm^2 ... 2.5 mm^2, 450 V, 16 A, PA, light gray, coding: P, 2.5 mm^2, cable length: 3 m, Male straight, on Socket straight

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

1526892

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Connecting cable, product family: IPD/ Push-lock connection, number of positions: 4+PE, Socket/pin, 0.5 mm^2 ... 2.5 mm^2, 450 V, 16 A, PA, light gray, coding: P, 2.5 mm^2, cable length: 5 m, Male straight, on Socket straight

Accessories

SEALING PLUG 10X16 RD - Sealing plug

1400284

https://www.phoenixcontact.com/in/products/1400284

Sealing plug, for threads pluggable, color: red

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SEALING PLUG 14X22 RD - Sealing plug

1400270

https://www.phoenixcontact.com/in/products/1400270

Sealing plug, for threads pluggable, color: red

ZBF 4:UNBEDRUCKT - Zack Marker strip, flat

0808587

https://www.phoenixcontact.com/in/products/0808587

Zack Marker strip, flat, Strip, white, unlabeled, can be labeled with: CMS-P1-PLOTTER, PLOTMARK, mounting type: latching, for terminal block width: 4 mm, Number of individual labels: 10, text field height: 5.2 mm, text field width: 4.2 mm
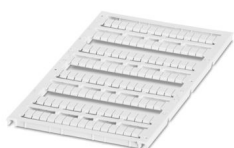
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UC-TMF 4 - Marker for terminal blocks

0818166

https://www.phoenixcontact.com/in/products/0818166

Marker for terminal blocks, Sheet, white, unlabeled, can be labeled with: BLUEMARK ID COLOR, BLUEMARK ID, BLUEMARK CLED, PLOTMARK, CMS-P1-PLOTTER, mounting type: latching, for terminal block width: 4.2 mm, Number of individual labels: 120, text field height: 5.1 mm, text field width: 3.6 mm

UCT-TMF 4 - Marker for terminal blocks

0828742

https://www.phoenixcontact.com/in/products/0828742

Marker for terminal blocks, Sheet, white, unlabeled, can be labeled with: TOPMARK NEO, TOPMARK LASER, BLUEMARK ID COLOR, BLUEMARK ID, BLUEMARK CLED, THERMOMARK PRIME, THERMOMARK CARD 2.0, THERMOMARK CARD, mounting type: latching, for terminal block width: 4.2 mm, Number of individual labels: 90, text field height: 4.7 mm, text field width: 3.4 mm

IPD P 5P2,5 F GY - Connector

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https://www.phoenixcontact.com/in/products/1088677

IPD PL CAP W32 WP GY - Protective cap

1088711

https://www.phoenixcontact.com/in/products/1088711

Protective cap, IPD, with locking element, IP66, IP68, IP69K, width: 32 mm, color: gray, for IPD P 5P2,5..., for IPD W 5P2,5..., IPD H 5P,5..., IPD Y 5P2,5

IPD SEAL W32 2XASI - Seal

1698173

https://www.phoenixcontact.com/in/products/1698173

Seal, for connectors, product family: IPD, black, For IPD ... 5P2,5 ..., For IPD ... 5F2,5 ...

IPD P 5P2,5 F GY - Connector

1088677

https://www.phoenixcontact.com/in/products/1088677

IPD SEAL W32 1XASI - Seal

1698174

https://www.phoenixcontact.com/in/products/1698174

Seal, for connectors, product family: IPD, black, For IPD ... 5P2,5 ..., For IPD ... 5F2,5 ...

QSS 27 - Socket wrench

1670646

https://www.phoenixcontact.com/in/products/1670646

Allen wrench, for loosening and fastening the QUICKON union nut, WAF 27 mm

IPD P 5P2,5 F GY - Connector

1088677

https://www.phoenixcontact.com/in/products/1088677

SZF 1-0,6X3,5 - Screwdriver

1204517

https://www.phoenixcontact.com/in/products/1204517

Actuation tool, for ST terminal blocks, also suitable for use as a bladed screwdriver, size: 0.6 x 3.5 x 100 mm, 2-component grip, with non-slip grip

CRIMPFOX VARIO 4S - Crimping pliers

1108766

https://www.phoenixcontact.com/in/products/1108766

Crimping pliers, contact connection type: Insulated and uninsulated ferrules, min. cross section: 0.25 mm^2, max. cross section: 4 mm^2, compression: Square crimp, weight 401 g, black/green