

# IPD WD 3P2,5 1,0 M20 GY - Panel feed-through



1047350

<https://www.phoenixcontact.com/in/products/1047350>

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Panel feed-through, Direct connection, product family: IPD, connection method: Single wires/  
Push-in connection, number of positions: 2+PE, M20, 0.5 mm<sup>2</sup> ... 2.5 mm<sup>2</sup>, 450 V, 16 A, PA, light  
gray, external cable diameter: 6 mm ... 9 mm and 8 mm ... 13 mm, cable length: 1 m

## Your advantages

- Convenient: quick and easy assembly without special tools
- Fast and easy startup, thanks to tool-free Push-in connection technology
- Reliable installation in harsh environments with IP66, IP68, and IP69K throughout the entire system

## Commercial data

Item number	1047350
Packing unit	1 pc
Minimum order quantity	1 pc
Sales key	*****
Product key	AF6IAB
Catalog page	Page 469 (C-2-2019)
GTIN	4055626648316
Weight per piece (including packing)	146.6 g
Weight per piece (excluding packing)	146.6 g
Customs tariff number	85366990
Country of origin	CN

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## Technical data

### Product properties

Product type	Panel feed-through
Product family	IPD
Number of positions	3
Connection profile	2+PE
Position marking	L, N, PE
Type	Direct connection

### Insulation characteristics

Overvoltage category	III
Degree of pollution	3

### Connection data

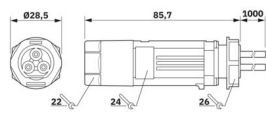
#### Connection technology

Connection method On the device side	Single wires
Connection method On the field side	Push-in 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

### Dimensions

Dimensional drawing	
Width	28.6 mm
Length	85.7 mm

### Electrical properties

Rated surge voltage (III/3)	6 kV
Rated current	16 A
Rated voltage (III/3)	450 V
Nominal voltage U <sub>N</sub>	450 V AC
	450 V DC
Nominal current I <sub>N</sub>	16 A (observe derating)

### Mechanical properties

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## Mechanical data

Insertion/withdrawal cycles	10
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## Material specifications

Color (Housing)	light gray (RAL 7035)
Material Housing	PA
Material Seal	NBR (Field) EPDM (Device)
Contact material	Cu
Contact surface material	Ni/Sn

## Cable/line

Cable length	1 m
External cable diameter	6 mm ... 9 mm 8 mm ... 13 mm
Stripping length of the individual wire	10 mm
Position marking	L, N, PE
Single wire, color	brown, blue, green/yellow
Halogen-free	no

## Mounting

Mounting type	Front mounting M20
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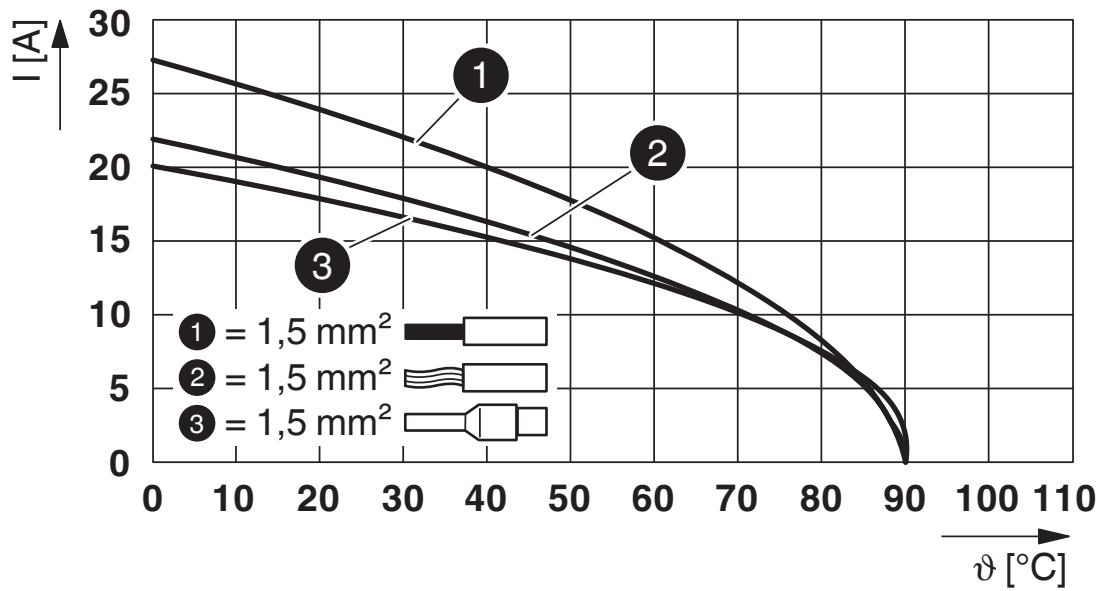
## Environmental and real-life conditions

### Ambient conditions

Degree of protection	IP66 IP68 (2 m / 24 h) IP69K
Impact strength	IK07
Ambient temperature (operation)	-40 °C ... 90 °C (T = 45 °C)
Temperature when conductor connected	-5 °C ... 50 °C
Ambient temperature (storage/transport)	-40 °C ... 90 °C
Resistance to UV radiation	yes

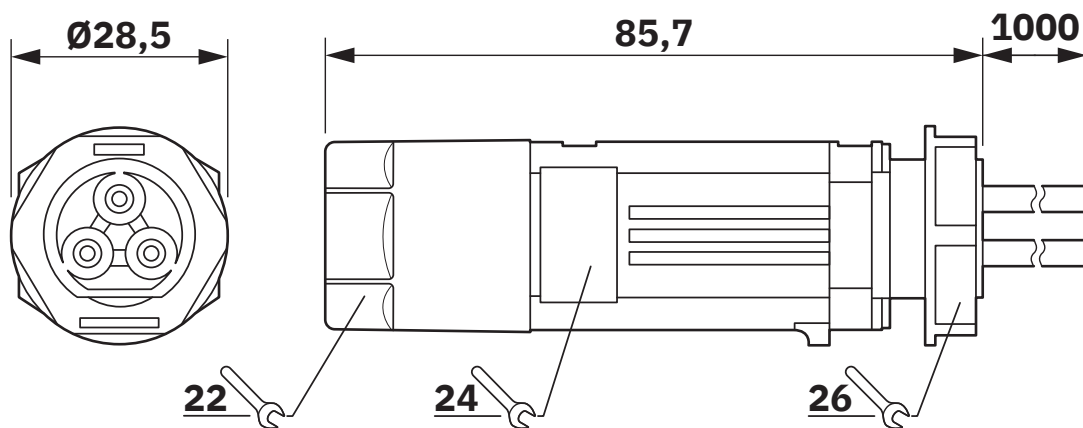
Drawings

Diagram



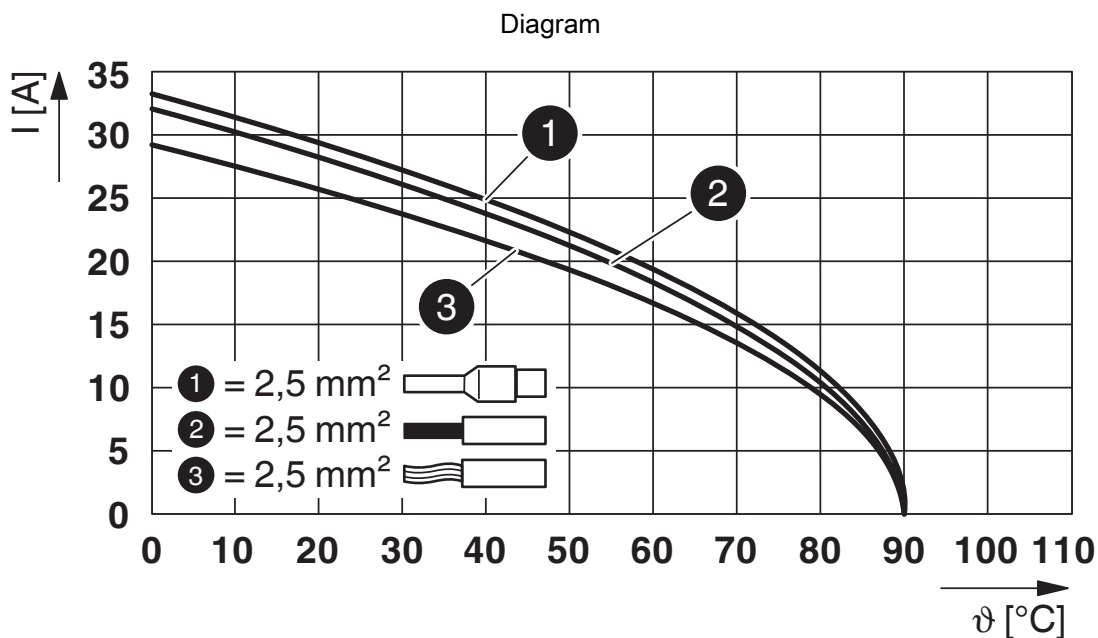
Derating diagram for 1.5 mm<sup>2</sup>

Dimensional drawing

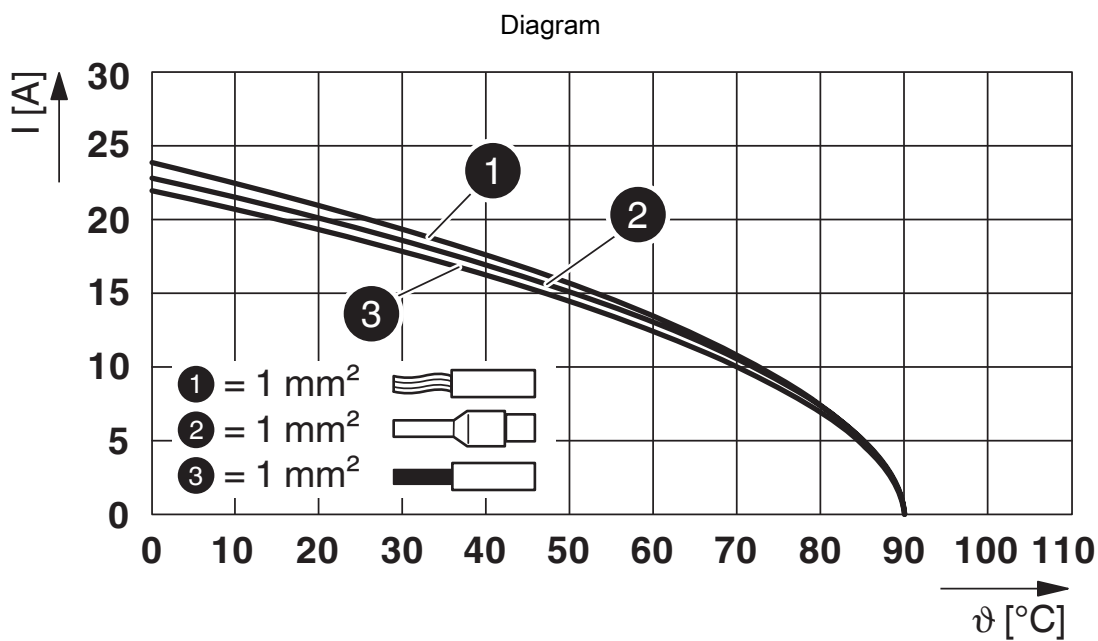


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Derating diagram for 2.5 mm<sup>2</sup>



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

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## Approvals

To download certificates, visit the product detail page: <https://www.phoenixcontact.com/in/products/1047350>

 <b>VDE approval of drawings</b> Approval ID: 40049992				
	Nominal voltage $U_N$	Nominal current $I_N$	Cross section AWG	Cross section $\text{mm}^2$
	450 V	20 A	-	0.5 - 2.5

 <b>UL Listed</b> Approval ID: E468743				
	Nominal voltage $U_N$	Nominal current $I_N$	Cross section AWG	Cross section $\text{mm}^2$
Only rigid conductors	600 V	15 A	-	- 14
multi-stranded with ferrule	600 V	15 A	-	- 14

 <b>cUL Listed</b> Approval ID: E468743				
	Nominal voltage $U_N$	Nominal current $I_N$	Cross section AWG	Cross section $\text{mm}^2$
	600 V	20 A	- 14	-

<b>DNV</b> Approval ID: TAE00004G2				
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<b>cULus Listed</b>				
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## Classifications

### ECLASS

ECLASS-11.0	27440602
ECLASS-12.0	27440602
ECLASS-13.0	27440602

### ETIM

ETIM 9.0	EC002566
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### UNSPSC

UNSPSC 21.0	39121500
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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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## 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 7X16 RD - Sealing plug

1400255

<https://www.phoenixcontact.com/in/products/1400255>

Sealing plug, color: red



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## ZBF 4:UNBEDRUCKT - Zack Marker strip, flat

0808587

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



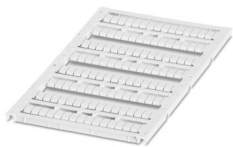
Zack Marker strip, flat, Strip, white, unlabeled, can be labeled with: CMS-P1-PLOTTER, PLOTMARK, mounting type: latching, for terminal block width: 4 mm, Number of individual labels: 10, text field height: 5.2 mm, text field width: 4.2 mm

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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

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## 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

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## 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

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## CRIMPFOX CENTRUS 6S - Crimping pliers

1213144

<https://www.phoenixcontact.com/in/products/1213144>



Crimping pliers, for uninsulated and insulated ferrules, DIN 46228 Part 1 and 4, from 0.14 mm<sup>2</sup> ... 6 mm<sup>2</sup>, also for TWIN ferrules up to 2 x 4 mm<sup>2</sup>, automatic cross section adjustment, lateral insertion, equipped with fall protection

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## QSS 22 - Socket wrench

1670206

<https://www.phoenixcontact.com/in/products/1670206>



Allen wrench, for loosening and fastening the QUICKON union nut, WAF 22 mm

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## 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<sup>2</sup>, max. cross section: 4 mm<sup>2</sup>, compression: Square crimp, weight 401 g, black/green

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