

1641471  
<https://www.phoenixcontact.com/in/products/1641471>

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Panel feed-through, for external panel mounting, with manual solder/slip-on connection, 4.8 x 0.8 mm

Your advantages

- Robust throughout: housing with IP65/IP67 protection for a wide range of applications

Commercial data

Item number	1641471
Packing unit	10 pc
Minimum order quantity	10 pc
Sales key	BF6
Product key	AF6HAB
Catalog page	Page 12 (PC-2002)
GTIN	4017918876562
Weight per piece (including packing)	20.76 g
Weight per piece (excluding packing)	20.59 g
Customs tariff number	85366990
Country of origin	PL

# Q 1,5/4FL/24-M20KU-ESA - Panel feed-through



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## Technical data

### Product properties

Product type	Panel feed-through
Number of positions	4
Position marking	1, 2, 3, 4
Number of connections	4

### Insulation characteristics

Overvoltage category	III
Degree of pollution	3

### Connection data

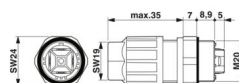
#### Connection technology

Connection method On the device side	Manual solder/slip on connection (4.8 mm x 0.8 mm)
Frequency of connections between conductors of the same cross section	max. 10

#### Conductor connection

Conductor cross section flexibel	0.75 mm <sup>2</sup> ... 1.5 mm <sup>2</sup>
Conductor cross section solid	0.75 mm <sup>2</sup> ... 1 mm <sup>2</sup>
Connection cross section AWG	18 ... 16
Tightening torque Union nut	3 Nm
Tightening torque Contact carrier	4.5 Nm
Tightening torque Locking nut	4.5 Nm
Wrench size Union nut	19 mm
Wrench size Contact carrier	24 mm

### Dimensions

Dimensional drawing	
Width	24 mm
Height	24 mm
Length	55.9 mm

### Electrical properties

Rated surge voltage (II/2)	6 kV
Rated surge voltage (III/2)	6 kV
Rated surge voltage (III/3)	6 kV
Rated current	15 A
Contact resistance	< 3 mΩ
rated voltage (II/2)	1000 V

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rated voltage (III/2)	800 V
Rated voltage (III/3)	500 V (with insulating sleeve PT/FS 4,8. Without insulating sleeve 250 V AC.)
Nominal voltage $U_N$	500 V AC
	500 V DC
Nominal current $I_N$	15 A

## Material specifications

Color	green (RAL 6021)
Material Housing	PA
Material Contact	CuZn
Material Contact surface	tin-plated
Flammability rating according to UL 94	V0
Material wire insulation	PVC / PE

## Cable/line

Structure of individual litz in acc. with VDE 0295 / smallest wire diameter	VDE 0295 class 1 to 6/min. 0.15 mm
External cable diameter	6 mm ... 12 mm
Wire diameter including insulation	1.8 mm ... 3 mm
Position marking	1, 2, 3, 4
Material wire insulation	PVC / PE

## Mounting

Mounting type	Front mounting M20
Assembly note	If the conductor is reconnected, it must be cut off above the last contact point. QUICKON components may only be operated when under no load.

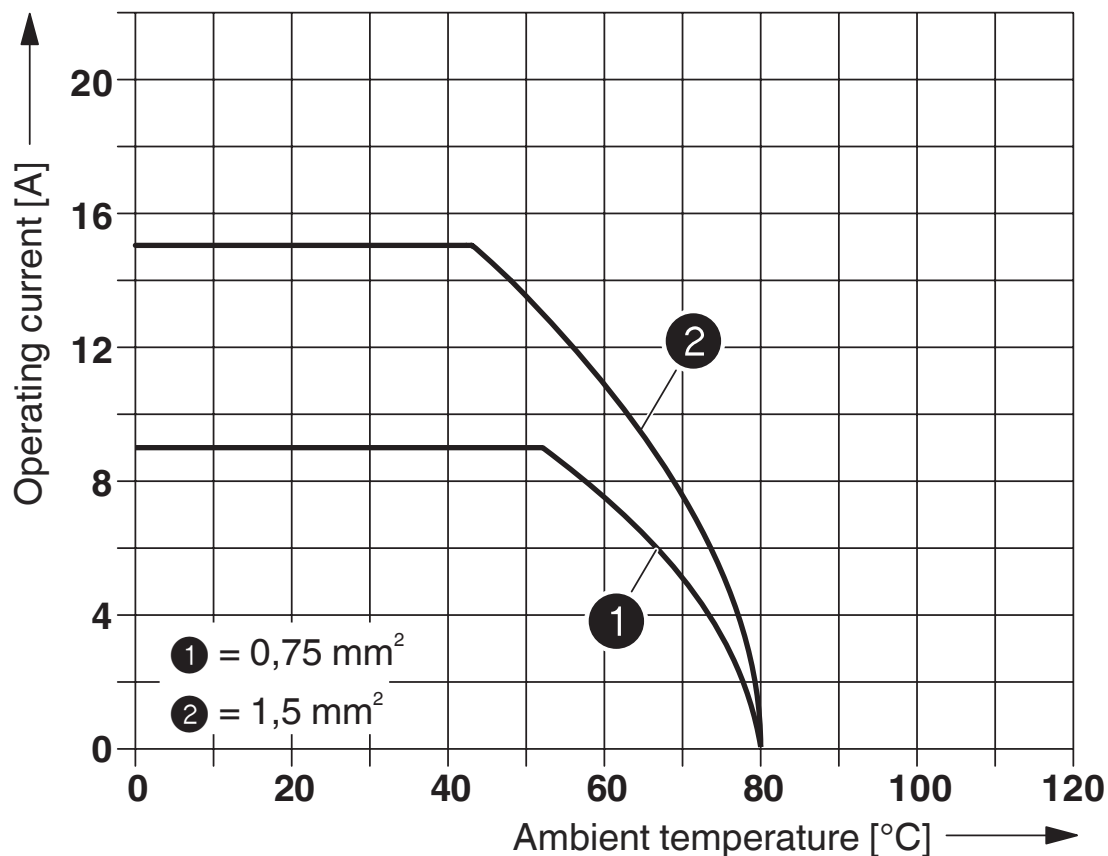
## Environmental and real-life conditions

### Ambient conditions

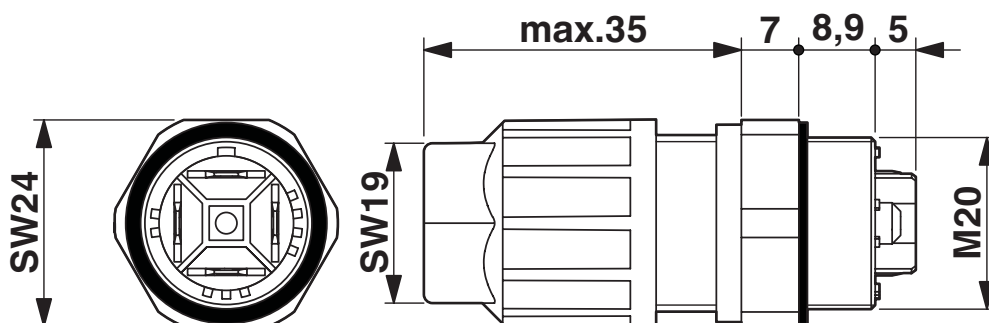
Degree of protection	IP65
	IP67
Ambient temperature (operation)	-40 °C ... 80 °C (specifications of the cable manufacturer must also be observed)
	-25 °C ... 50 °C
Temperature when conductor connected	-5 °C ... 50 °C (specifications of the cable manufacturer must also be observed)

## Drawings

Diagram



Dimensional drawing



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## Approvals

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cUL Recognized Approval ID: E118976				
	Nominal voltage $U_N$	Nominal current $I_N$	Cross section AWG	Cross section $\text{mm}^2$
	250 V	11 A	-	-

UL Recognized Approval ID: E118976				
	Nominal voltage $U_N$	Nominal current $I_N$	Cross section AWG	Cross section $\text{mm}^2$
	250 V	15 A	-	-

EAC Approval ID: RU C-DE.A*30.B.01102				
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VDE approval of drawings Approval ID: 40032336				
	Nominal voltage $U_N$	Nominal current $I_N$	Cross section AWG	Cross section $\text{mm}^2$
	500 V	-	-	0.75 - 1.5

cULus Recognized				
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## Classifications

### ECLASS

ECLASS-11.0	27440602
ECLASS-13.0	27440602
ECLASS-12.0	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

### Q-MU M20 - Nut

1640702

<https://www.phoenixcontact.com/in/products/1640702>

Nut (plastic) to lock the contact carrier from the inside of the device



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### PT/FS 4,8 - Insulating sleeve

1670497

<https://www.phoenixcontact.com/in/products/1670497>

Insulating sleeve, as touch protection, for 4.8 mm slip-on sleeves, slide onto the conductor before





## Q 1,5/4FL/24-M20KU-ESA - Panel feed-through

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## Q-PROT13/16 - Filler plug

1670222

<https://www.phoenixcontact.com/in/products/1670222>



Closing caps, for Pg13/ Pg16, for closing unoccupied connections

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## MICROFOX-SB - Diagonal cutter

1212489

<https://www.phoenixcontact.com/in/products/1212489>



Electronic diagonal cutter, round head, without chamfer, with opening spring, mirror-polished and oiled, 2-component grip, cutting capacity: soft 0.2 - 2.0 mm; medium hard 1.2 mm; hard 0.5 mm diameter

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## QSS 19 - Socket wrench

1670895

<https://www.phoenixcontact.com/in/products/1670895>



Socket wrench, for tightening and unscrewing the QUICKON union nut, wrench size 19 mm

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PHOENIX CONTACT (I) Pvt. Ltd.

A-58/2, Okhla Industrial Area, Phase - II, New Delhi-110 020

+91.1275.71420

[info@phoenixcontact.co.in](mailto:info@phoenixcontact.co.in)