

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



1643000

<https://www.phoenixcontact.com/us/products/1643000>

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Panel feed-through, for external wall mounting, with manual solder/slip-on connection, 4.8 x 0.8 mm, connecting thread M20x1.5, 4-pos.

Your advantages

- Innovative and time saving - QUICKON fast connection for time saving of up to 80 % for on-site connection
- Robust throughout: housing with IP65/IP67 protection for a wide range of applications
- Safer connection with mechanical coding to protect against mismatching, and touch-proof protection in accordance with DIN EN 0105
- Efficient - by using panel feed-throughs, devices no longer need to be opened in order to connect cables

Commercial data

Item number	1643000
Packing unit	1 pc
Minimum order quantity	10 pc
Sales key	BF50
Product key	BF6HAB
Catalog page	Page 476 (C-2-2019)
GTIN	4017918944186
Weight per piece (including packing)	20.747 g
Weight per piece (excluding packing)	20.49 g
Customs tariff number	85366990
Country of origin	PL

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Technical data

Product properties

Product type	Panel feed-through
Number of positions	4
Position marking	1, 2, 3, 4
Thread type	M20

Insulation characteristics

Overvoltage category	III
Degree of pollution	3

Connection data

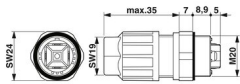
Connection technology

Connection technology	QUICKON connection
Connection system, internal	Manual solder/slip on connection 4.8 mm x 0.8 mm
Frequency of connections between conductors of the same cross section	10

Conductor connection

Conductor cross section flexibel	0.75 mm ² ... 1.5 mm ²
Conductor cross section solid	0.75 mm ² ... 1 mm ²
Connection cross section AWG	18 ... 16
Wrench size, union nut	19 mm
Tightening torque, union nut	3 Nm
Wrench size, contact carrier	24 mm
Tightening torque contact carrier	4.5 Nm
Tightening torque, counter nut	4.5 Nm

Dimensions

Dimensional drawing	
Width	24 mm
Height	24 mm
Length	55.9 mm
Wrench size, union nut	19 mm

External dimensions

Outside diameter	6 mm ... 12 mm
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Electrical properties

Rated surge voltage (II/2)	6 kV
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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 (with insulating sleeve)
rated voltage (III/2)	800 V
Rated voltage (III/3)	500 V
Nominal voltage U_N	500 V AC
	500 V DC
Nominal current I_N	15 A (15 A with slip-on sleeve 2.5 mm ² ; 12 A with slip-on sleeve 1.5 mm ² .)

Material specifications

Material	PA
Flammability rating according to UL 94	V0
Contact material	CuZn
Contact surface material	tin-plated
Contact carrier material	PA

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 instructions	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.
Connection method	Spade connection

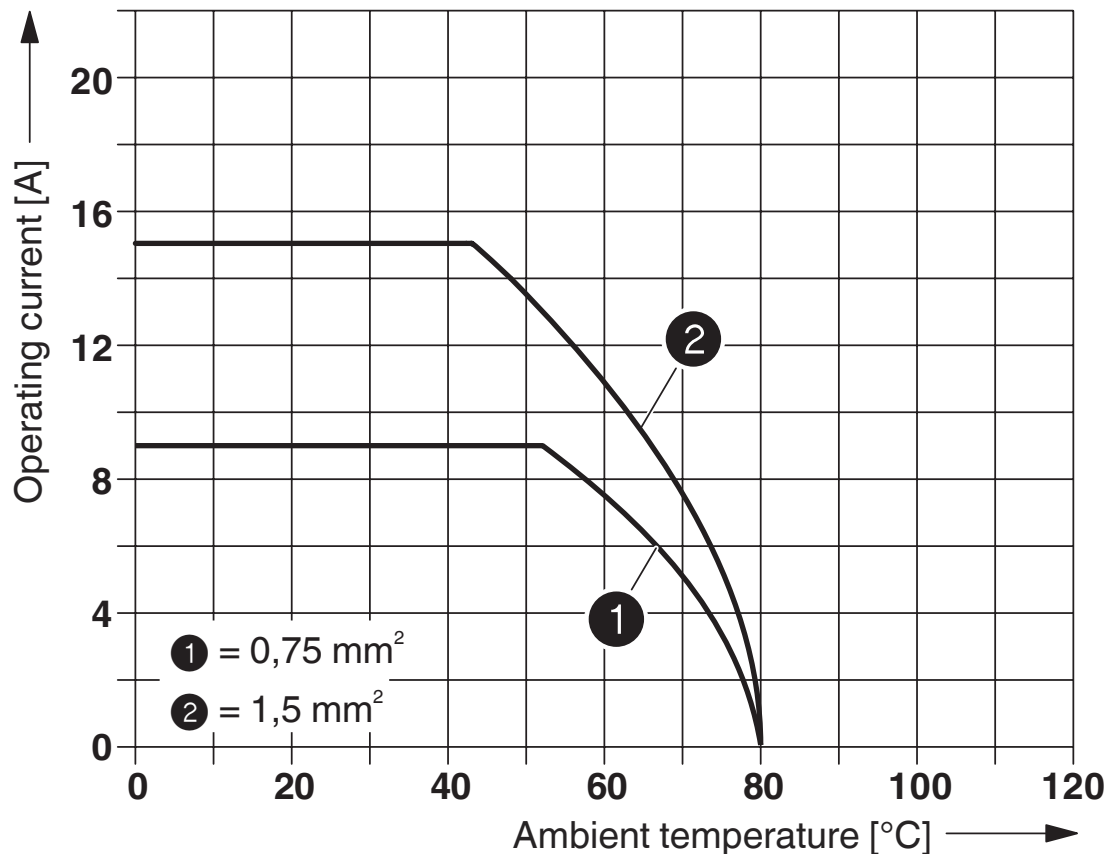
Environmental and real-life conditions

Ambient conditions

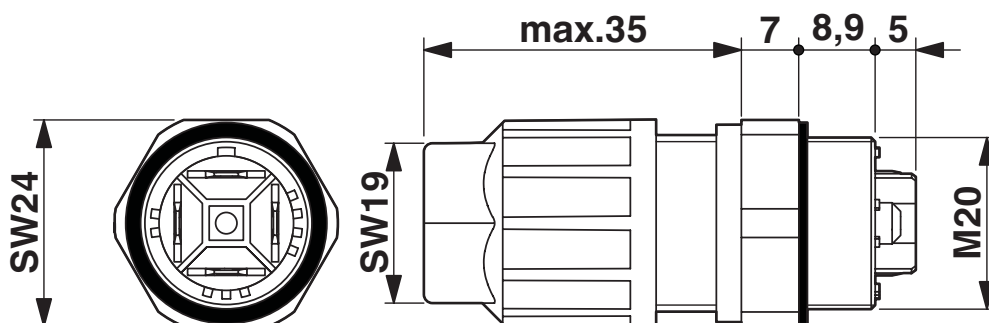
Degree of protection	IP65
	IP67
Ambient temperature (operation)	-40 °C ... 80 °C
	-25 °C ... 50 °C
Temperature when conductor connected	-5 °C ... 50 °C

Drawings

Diagram



Dimensional drawing



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Approvals


To download certificates, visit the product detail page: <https://www.phoenixcontact.com/us/products/1643000>

 cUL Recognized Approval ID: FILE E 118976				
	Nominal voltage U_N	Nominal current I_N	Cross section AWG	Cross section mm^2
	250 V	11 A	-	-

 UL Recognized Approval ID: FILE E 118976				
	Nominal voltage U_N	Nominal current I_N	Cross section AWG	Cross section mm^2
	250 V	15 A	-	-

 EAC Approval ID: RU C-DE.AI30.B.01102				
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 EAC Approval ID: RU C-DE.A*30.B.01102				
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 VDE Zeichengenehmigung Approval ID: 40032336				
	Nominal voltage U_N	Nominal current I_N	Cross section AWG	Cross section mm^2
	500 V	-	-	0.75 - 1.5

 EAC Approval ID: RU C-DE.BL08.B.00511				
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cULus Recognized				
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Classifications

ECLASS

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

ETIM

ETIM 8.0	EC002566
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UNSPSC

UNSPSC 21.0	39121500
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Environmental product compliance

China RoHS	Environmentally friendly use period: unlimited = EFUP-e
	No hazardous substances above threshold values

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Accessories

Q-MU M20 - Nut

1640702

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

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



PT/FS 4,8 - Insulating sleeve

1670497

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

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



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SEALING PLUG 12X22 RD - Closing cap

1400260

<https://www.phoenixcontact.com/us/products/1400260>



Closing cap, color: red

MICROFOX-SB - Diagonal cutter

1212489

<https://www.phoenixcontact.com/us/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

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

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