

1805148

https://www.phoenixcontact.com/pc/products/1805148

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Device connector front mounting, Range of articles: SUNCLIX, housing material: PPE, color: black, number of positions: 1, min. conductor cross section: 2.5 mm², rated voltage: 1000 V DC, rated current: 27 A, Connection method: Crimp, Contact connection type: Pin, cable length: 130

Commercial data

Item number	1805148
Packing unit	50 pc
Minimum order quantity	1 pc
Product key	ABLBAA
Catalog page	Page 420 (C-2-2013)
GTIN	4046356671439
Weight per piece (including packing)	12.38 g
Weight per piece (excluding packing)	12.38 g
Customs tariff number	85444290
Country of origin	DE



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Technical data

Notes

Safety note	WARNING: Commission properly functioning products only
	The products must be regularly inspected for damage. Decommission defective products immediately. Replace damaged products. Repairs are not possible.
	 WARNING: Only electrically qualified personnel may install operate the product. They must observe the following safety notes. The qualified personnel must be familiar with the basic electrical engineering. They must be able to recognize and prevent danger. The relevant symbol on the packaging indica that only personnel familiar with electrical engineering are allowed to install and operate the product.
	WARNING: The connectors may not be plugged in or disconnected under load. Ignoring the warning or improper us may damage persons and/or property.
	 The products are suitable for applications in plant, controller and electrical device engineering.
	 Assembled products may not be manipulated or improperly opened.
	 Only use mating connectors that are specified in the technic data of the standards listed (e.g. the ones listed in the produc accessories online at phoenixcontact.com/products).
	 When using the product in direct connection with third-party manufacturers, the user is responsible.
	 For operating voltages > 50 V AC, conductive connector housings must be grounded
	 Ensure that the protective or functional ground has been properly connected.
	 Observe the corresponding technical data. You will find information: On the product On the packing label In the supplied documentation Online at phoenixcontact.com/products under the product
	 The installation notes/Design In documents online on the download page at phoenixcontact.com/products must be observed for this product.
	 Use a protective cap to protect connectors that are not in us The suitable accessories are available online in the accessor section of the product at phoenixcontact.com/products
	• The connector warms up in normal operation. Depending or ambient conditions, the surface of the connector can continue warm up. In this case, the user is responsible for posting warnings (e.g. DIN EN ISO 13732-1:2008-12).
	• Operate the connector only when it is fully plugged in and interlocked.
	 Ensure that when laying the cable, the tensile load on the connectors does not exceed the upper limit specified in the standards.



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oduct properties	Observe the minimum bending radius of the cable. Lay the cable without twisting it.
• •	
Product type	Panel feed-through
Product family	SUNCLIX
Number of positions	1
nsulation characteristics	
Protection class	П
Degree of pollution	2
nnection data	
Conductor connection	
Tightening torque	1.8 Nm ±0.1 Nm
nensions	
Dimensional drawing	
Width	26.3 mm
Height	26.3 mm
Length	41.5 mm
ectrical properties	
Rated voltage (III/2)	1000 V
Nominal voltage ATD	1000 V DC in accordance with IEC 62852:2014/AMD1:2020
Rated surge voltage (III/2)	12 kV
Nation Surge Voltage (III/2)	27 A (in accordance with IEC 62852:2014/AMD1:2020)
Rated current (2.5 mm ²)	
	0.45 mΩ

Material specifications

Color	black
Color of the housing part	black
Material	PPE



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Flammability rating according to UL 94	V0
Insulating material group	III
Seal material	EPDM
Insulating material	mPPE
Contact surface	Silver Ag
Cable seal material	Elastosil LR 3065/50
Contact material	Cu
Contact surface material	Ag
Contact carrier material	PPE
Housing material	PPE
Outer sheath, material	PE-X

Cable/line

Cable length	130 mm
Cable type	S01
Structure of individual litz in acc. with VDE 0295 / smallest wire diameter	50x0.25
Cable type	Hose line
Cable structure	50 x 0.25 mm Ø litz wires, tin-plated, 1x bunched
External cable diameter	4.25 mm ±0.15 mm
Outer sheath, material	PE-X
External sheath, color	red, similar to RAL 3000
Single wire, material	Cu
Single wire, cross section	2.5 mm ²
Cable cross section	2.5 mm ²
Nominal voltage, cable	1.8 kV DC (max U (conductor / conductor, ungrounded system))
Test voltage, cable	≥ 8 kV AC (Spark test online (standard designation))
Smallest bending radius, fixed installation	21.25 mm (5x Ø)
Smallest bending radius, movable installation	40.25 mm (10x Ø)
Cable pull-out force	> 80 N
Halogen-free	yes
Resistance to oil	no
Flame resistance	no

Mounting

Environmental and real-life conditions

Degree of protection (when plugged in)	IP66 / IP68 (2 m / 24 h)
Degree of protection (not plugged in)	IP20
Ambient temperature (operation)	-40 °C 85 °C
Ambient temperature (assembly)	-25 °C 50 °C
Resistance to oil	no



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Standards and regulations

Flame resistance	no
Resistance to oil	no
Standards/specifications	IEC 62852:2014/AMD1:2020

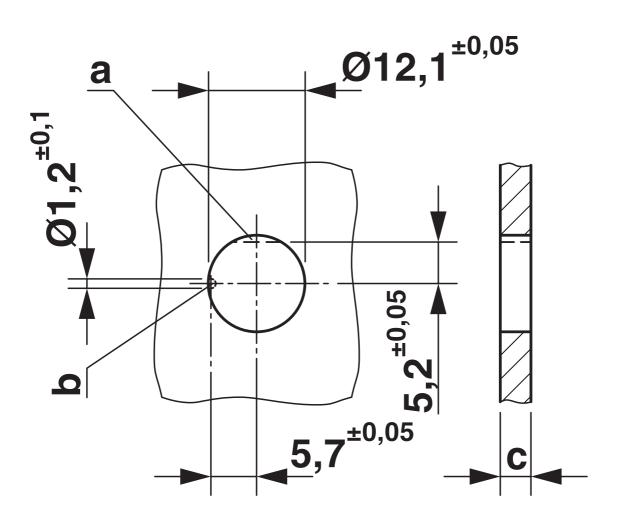


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Drawings

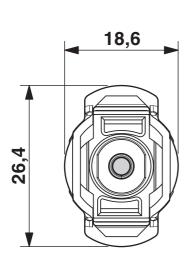
Dimensional drawing



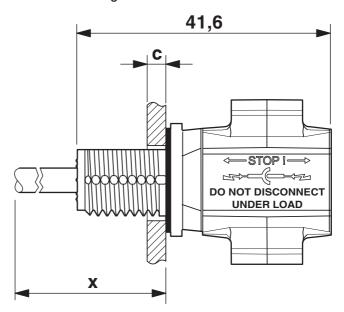


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Dimensional drawing



Dimension x = cable length

c: panel thickness - plastic: 2 - 6 mm; metal: 2 - 5 mm



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Approvals

🌣 To download certificates, visit the product detail page: https://www.phoenixcontact.com/pc/products/1805148



TÜV Rheinland Approval ID: R 60165003-0001



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Classifications

ECLASS

ECLASS-11.0	27440107
ECLASS-12.0	27440107
ECLASS-13.0	27440107

ETIM

	ETIM 9.0	EC002635
UNSPSC		
	UNSPSC 21.0	39121400



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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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