

1705051

https://www.phoenixcontact.com/us/products/1705051

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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: 6 mm², rated current: 40 A, Connection method: Crimp, cable length: 270

Commercial data

Item number	1705051
Packing unit	50 pc
Minimum order quantity	1 pc
Product key	ABLBAA
GTIN	4046356751001
Weight per piece (including packing)	24.53 g
Weight per piece (excluding packing)	24.53 g
Country of origin	DE



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Technical data

Notes

Safety note

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 and operate the product. They must observe the following safety notes. The qualified personnel must be familiar with the basics of electrical engineering. They must be able to recognize and prevent danger. The relevant symbol on the packaging indicates 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 use 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 technical data of the standards listed (e.g. the ones listed in the product 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:
- o On the product
- o On the packing label
- o In the supplied documentation
- o 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 use.
 The suitable accessories are available online in the accessory section of the product at phoenixcontact.com/products
- The connector warms up in normal operation. Depending on the ambient conditions, the surface of the connector can continue to 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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Color

Color of the housing part

Insulating material group

Flammability rating according to UL 94

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	Observe the minimum bending radius of the cable. Lay the cable without twisting it.
Product properties	
Product type	Panel feed-through
Product family	SUNCLIX
Number of positions	1
Insulation characteristics	
Protection class	II .
Degree of pollution	2
Connection data	
Conductor connection	
Tightening torque	1.8 Nm ±0.1 Nm
Dimensions	
Dimensional drawing	43.2
Width	18.6 mm
Height	18.6 mm
Length	43.2 mm
Electrical properties	
Rated voltage (III/2)	1000 V
Rated surge voltage (III/2)	12 kV
Rated current (6.0 mm²)	40 A
Contact resistance	$0.45~\text{m}\Omega$
Contact resistance	\leq 0.45 m Ω (when plugged in (without cable))
Mechanical properties	
Mechanical data	
Insertion/withdrawal cycles	100
Insertion force	45 N ±10 N
Withdrawal force	250 N ±50 N (when locked)
Material specifications	

black

black V0

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Seal material	EPDM
Insulating material	mPPE
Contact surface	Silver Ag
Housing material	PPE
Cable seal material	Elastosil LR 3065/50
Contact material	Cu
Contact surface material	Ag
Contact carrier material	PPE
O-ring material	Silopren LSR 2660
Outer sheath, material	PE-X

Cable/line

Cable length	270 mm
Cable type	S03
Structure of individual litz in acc. with VDE 0295 / smallest wire diameter	84x0.3
Cable type	Hose line
Cable structure	84 x 0.30 mm Ø litz wires, tin-plated, 1x bunched
External cable diameter	5.40 mm ±0.15 mm
Outer sheath, material	PE-X
External sheath, color	black RAL 9005
Single wire, material	Cu
Single wire, cross section	6 mm²
Cable cross section	6 mm²
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	28 mm (5x Ø)
Smallest bending radius, movable installation	54 mm (10x Ø)
Cable pull-out force	> 80 N
Halogen-free	yes
Resistance to oil	no
Flame resistance	no

Environmental and real-life conditions

Ambient conditions

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

Standards and regulations

no	
	no



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Resistance to oil no

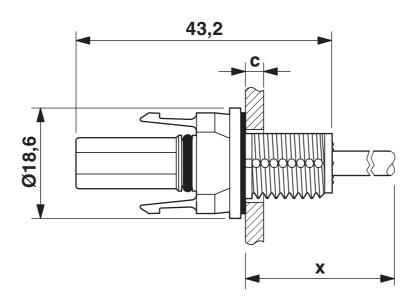


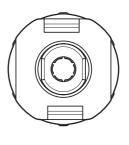
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Drawings

Dimensional drawing





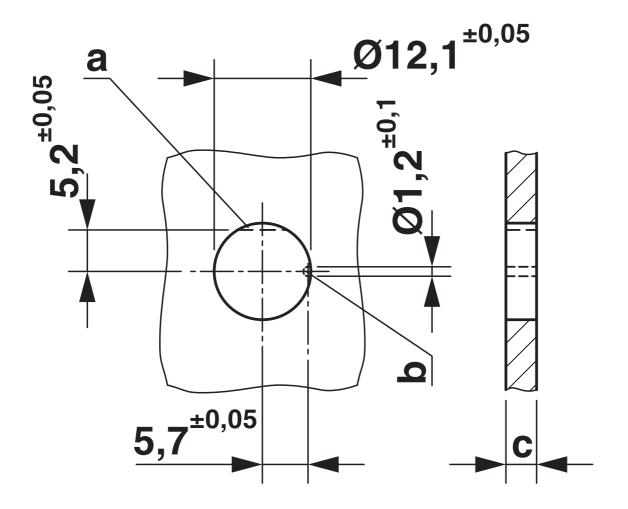
Dimension x = cable length c: panel thickness - plastic: 2 - 6 mm; metal: 2 - 5 mm



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Dimensional drawing



a: anti-rotation protection

b: coding

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



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Classifications

ECLASS

	ECLASS-13.0	27440107
	ECLASS-15.0	27440107
	-1h <i>a</i>	
ETIM		
	ETIM 9.0	EC002635
UNSPSC		
	UNSPSC 21.0	39121400



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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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Phoenix Contact USA 586 Fulling Mill Road Middletown, PA 17057, United States (+717) 944-1300 info@phoenixcon.com