PV-FT-CM-C-6-3000 - Device connector front mounting

1805766

https://www.phoenixcontact.com/us/products/1805766

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CRIMP



Device connector front mounting, Range of articles: SUNCLIX, housing material: PPE, color: black, number of positions: 1, min. conductor cross-section: 6 mm^2, rated current: 40 A, Connection method: Crimp, cable length: 3000

Commercial data

Item number	1805766
Packing unit	50 pc
Minimum order quantity	1 pc
Product key	ABLBAA
GTIN	4046356679107
Weight per piece (including packing)	230 g
Weight per piece (excluding packing)	225.9 g
Country of origin	DE

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Technical data

Notes

Safety note

Safety note	• 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.
	• The products are suitable for applications in plant, controller, and electrical device engineering.
	• 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).
	• For operating voltages > 50 V AC, conductive connector housings must be grounded
	• 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
	• 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
	• Operate the connector only when it is fully plugged in and interlocked.
	• 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
Pitch	0 mm

Insulation characteristics

Protection class	II
Degree of pollution	2

Connection data

Connection technology

Connection method	Crimp

Conductor connection

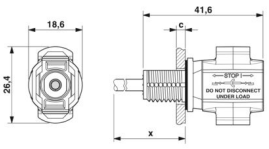
Tightening torque	1.8 Nm ±0.1 Nm

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Dimensions

Dimensional drawing	
Width	26.4 mm
Height	26.4 mm
Length	41.5 mm
Pitch	-

Electrical properties

Rated voltage (II/2)	1000 V
Rated voltage (III/2)	1500 V
Rated surge voltage (II/2)	8 kV
Rated surge voltage (III/2)	8 kV
Rated surge voltage (III/3)	16 kV
Rated current (6.0 mm²)	40 A
Contact resistance	0.45 mΩ

Mechanical properties

Mechanical data

Insertion force	45 N ±10 N
Withdrawal force	250 N ±50 N

Material specifications

Color	black
Color of the housing part	black
Flammability rating according to UL 94	V0
Insulating material group	I / CTI 600
Seal material	EPDM
Insulating material	mPPE
Contact surface	Tin Sn
Housing material	PPE
Cable seal material	Elastosil
Contact material	Cu
Contact surface material	Ag
Contact carrier material	PPE
Outer sheath, material	PE-X

Cable/line

Cable length	3000 mm
Cable type	S03

Structure of individual litz in acc. with VDE 0295 / smallest wire diameter	84x0.3
External cable diameter	5.40 mm ±0.15 mm
Outer sheath, material	PE-X
Single wire, cross section	6 mm²
Smallest bending radius, fixed installation	27 mm
Smallest bending radius, movable installation	54 mm
Cable pull-out force	> 80 N

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)	IP65
Ambient temperature (operation) (male connector/female connector)	-40 °C ... 85 °C
Ambient temperature (assembly)	-25 °C ... 50 °C

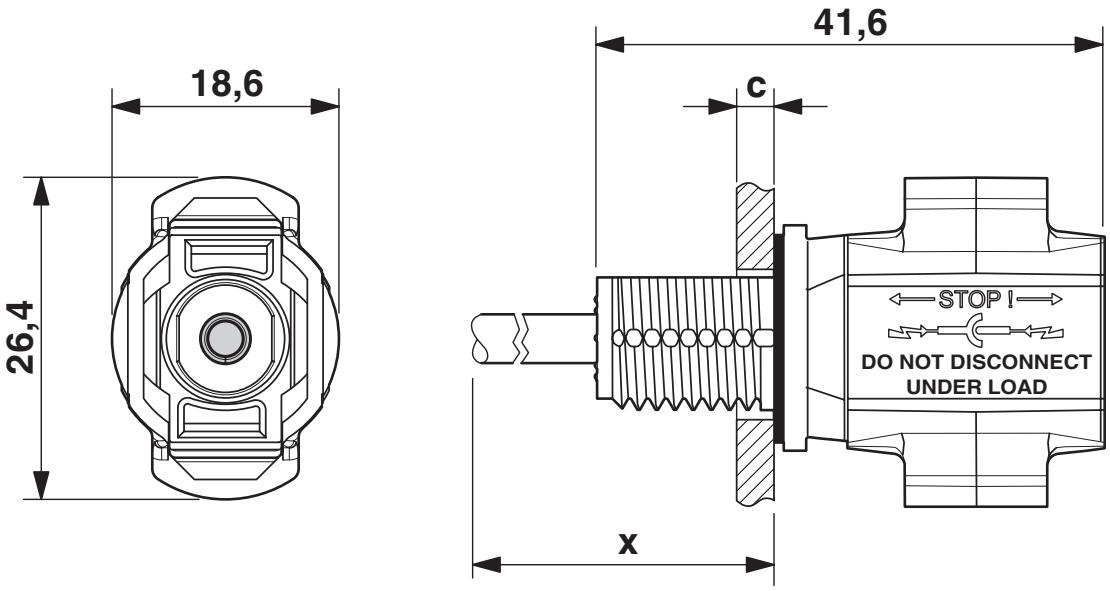
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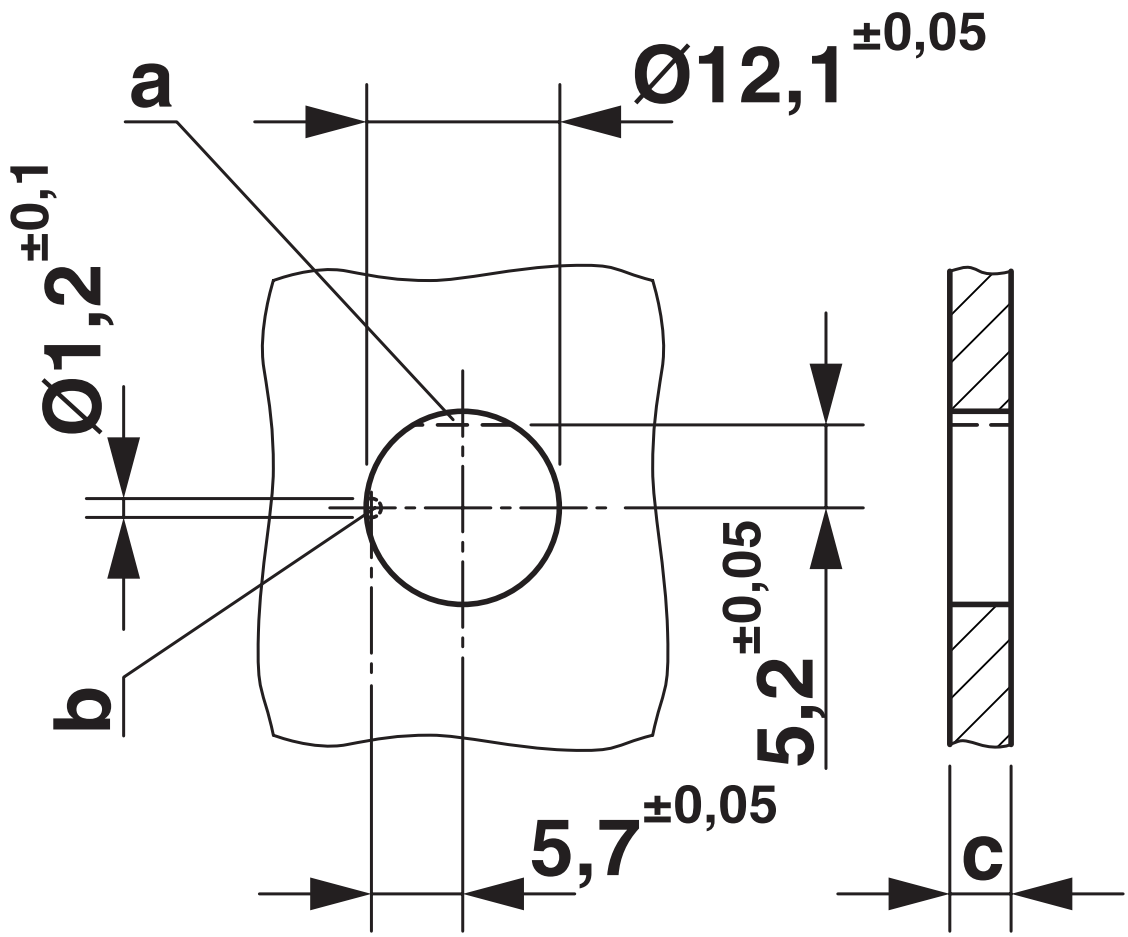
Drawings

Dimensional drawing



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

Dimensional drawing



a: anti-rotation protection
b: coding
c: panel thickness - plastic: 2 - 6 mm; metal: 2 - 5 mm

Classifications

ECLASS

ECLASS-13.0	27440107
ECLASS-15.0	27440107

UNSPSC

UNSPSC 21.0	39121400

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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