PV-FT-CM-C-6-500-RD - Device connector front mounting

1623390

https://www.phoenixcontact.com/us/products/1623390

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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 mm^2, Connection method: Crimp, Contact connection type: Pin, cable length: 500

Commercial data

Item number	1623390
Packing unit	50 pc
Minimum order quantity	50 pc
Sales key	AB02
Product key	ABLBAA
GTIN	4055626139654
Weight per piece (including packing)	41.7 g
Weight per piece (excluding packing)	41.7 g
Customs tariff number	85444290
Country of origin	DE

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.

	• 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

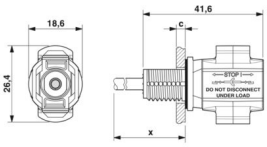
Protection class	II
Degree of pollution	2

Connection data

Conductor connection

Tightening torque	1.8 Nm ±0.1 Nm

Dimensions

Dimensional drawing	
Width	26.3 mm
Height	26.3 mm
Length	41.5 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 mΩ
Contact resistance	≤ 0.45 mΩ (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

Color	black
Color of the housing part	black
Flammability rating according to UL 94	V0
Insulating material group	III

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
Outer sheath, material	PE-X

Cable/line

Cable length	500 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	red, similar to RAL 3000
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	27 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)	-40 °C ... 85 °C
Ambient temperature (assembly)	-25 °C ... 50 °C
Resistance to oil	no

Standards and regulations

Flame resistance	no
Resistance to oil	no

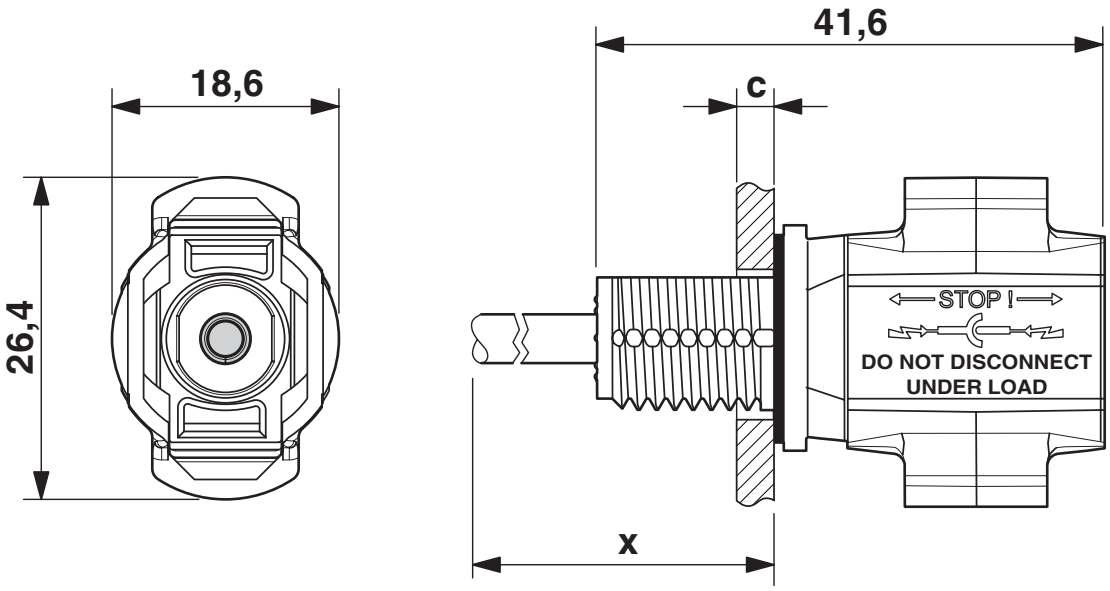
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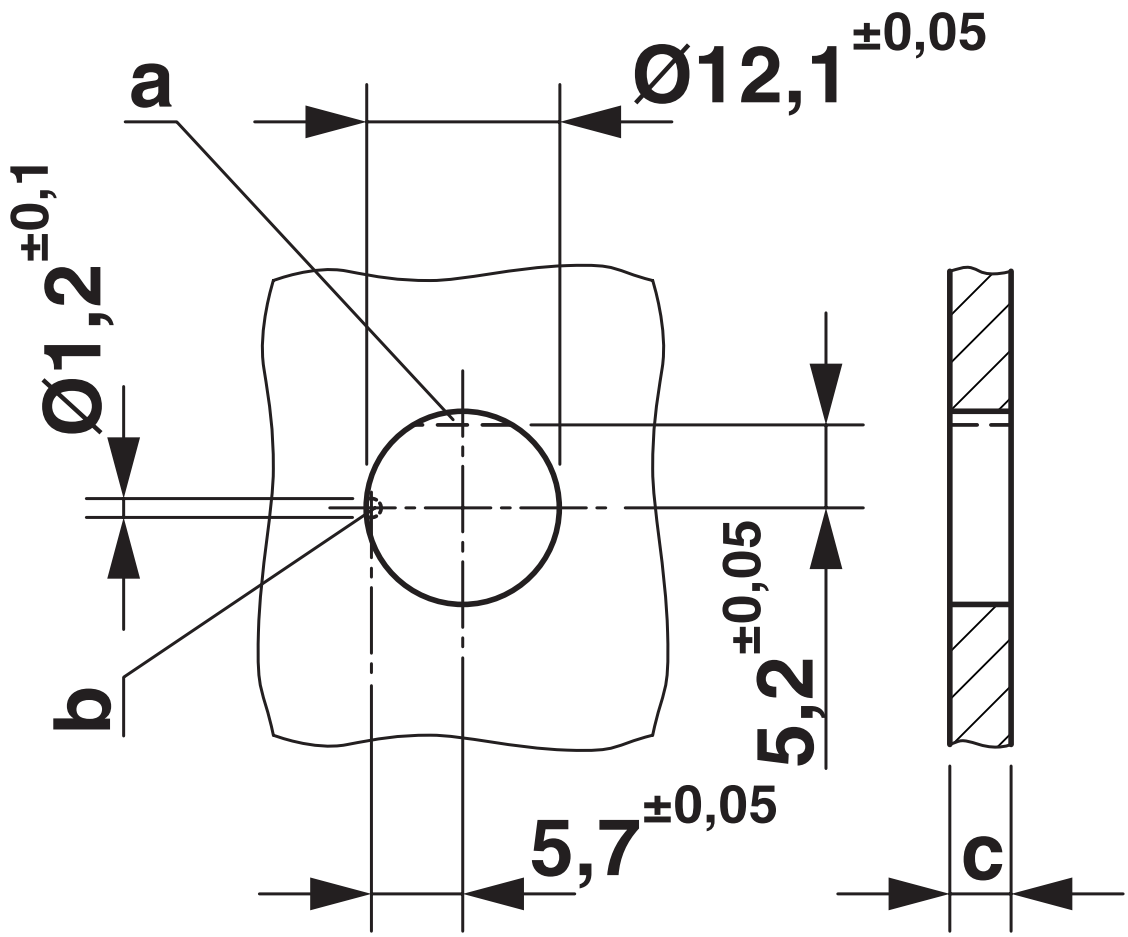
Drawings

Dimensional drawing



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

Dimensional drawing



a: anti-rotation protection
b: coding
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/us/products/1623390

TÜV Rheinland
Approval ID: R 60165003-0001

Classifications

ECLASS

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

ETIM

ETIM 9.0	EC002635

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%

Accessories

PV-FT-C NUT BK - Screw connection

1775880

https://www.phoenixcontact.com/us/products/1775880



Screw connection, Range of articles: SUNCLIX, Packing unit: 100 pcs. (polybag)

PV-C PROTECTION CAP - Protective cap

1785430

https://www.phoenixcontact.com/us/products/1785430



Protective cap, Range of articles: SUNCLIX, color: black, self-sealing, without interlock, set consisting of: 1 protective cap for connector side and 1 protective cap for coupling side

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