PV-FT-CM-C-2,5-130-RD-FE10 - Device connector front mounting

1034440

https://www.phoenixcontact.com/us/products/1034440

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CRIMP



Device connector front mounting, Range of articles: SUNCLIX, color: black, number of positions: 1, min. conductor cross-section: 2.5 mm^2, rated voltage: 1000 V DC, rated current: 27 A, Connection method: Crimp, cable length: 115

Commercial data

Item number	1034440
Packing unit	50 pc
Minimum order quantity	1,000 pc
Product key	ABLBAA
GTIN	4055626540252
Weight per piece (including packing)	12.596 g
Weight per piece (excluding packing)	11.918 g
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

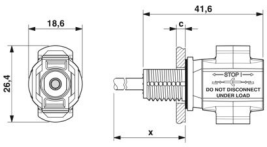
Connection technology

Connection method	Crimp

Conductor connection

Tightening torque	1.8 Nm ±0.1 Nm

Dimensions

Dimensional drawing	
Width	18.6 mm
Height	26.4 mm
Length	41.55 mm

Electrical properties

Rated voltage (III/2)	1000 V
Rated voltage	1000 V DC in accordance with IEC 62852:2014/AMD1:2020
Rated surge voltage (III/2)	12 kV
Rated current (2.5 mm²)	27 A (in accordance with IEC 62852:2014/AMD1:2020)
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

Material specifications

Color	black
Color of the housing part	black
Material Seal	EPDM
Material Contact carrier	PPE
Material Housing	PPE
Material Contact	Cu
Flammability rating according to UL 94	V0
Insulating material group	III
Insulating material	mPPE
Contact surface	Silver Ag
Cable seal material	Elastosil
Contact surface material	Ag
Outer sheath, material	PE-X

Cable/line

Cable length	115 mm
Cable type	S01
Structure of individual litz in acc. with VDE 0295 / smallest wire diameter	50x0.25
External cable diameter	5.40 mm ±0.15 mm
Outer sheath, material	PE-X
External sheath, color	red
Single wire, cross section	2.5 mm²
Smallest bending radius, fixed installation	27 mm
Smallest bending radius, movable installation	54 mm
Cable pull-out force	> 80 N
Halogen-free	yes

Environmental and real-life conditions

Ambient conditions

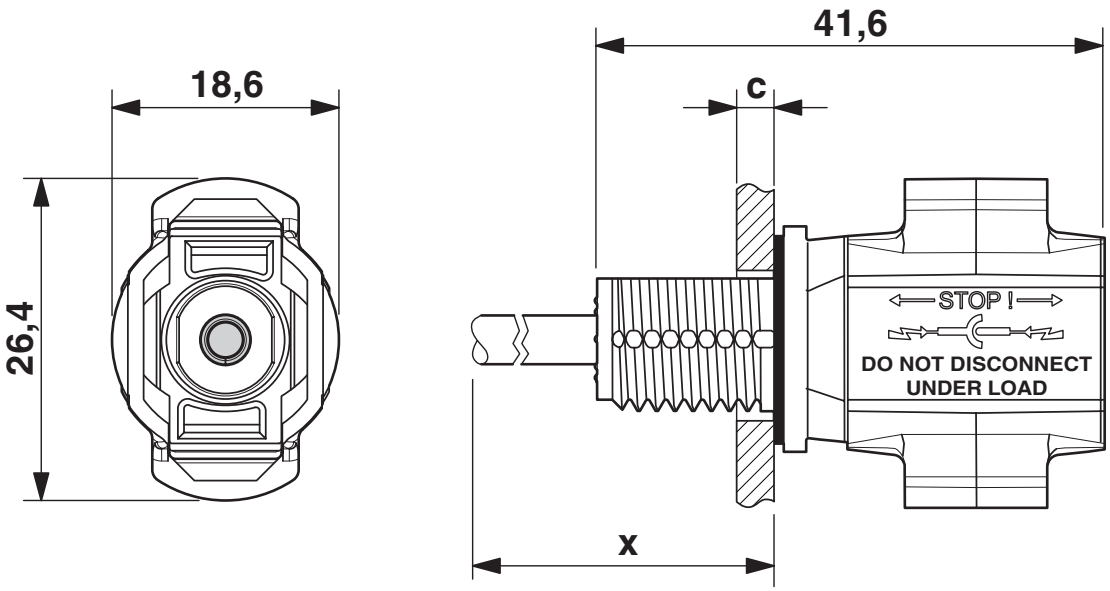
Degree of protection (when plugged in)	IP66/IP68 (2 m / 24 h)
Degree of protection (not plugged in)	IP20
Ambient temperature (operation) (male connector/female connector)	-40 °C ... 85 °C
Ambient temperature (assembly)	-25 °C ... 50 °C

Standards and regulations

Standards/specifications	IEC 62852:2014/AMD1:2020

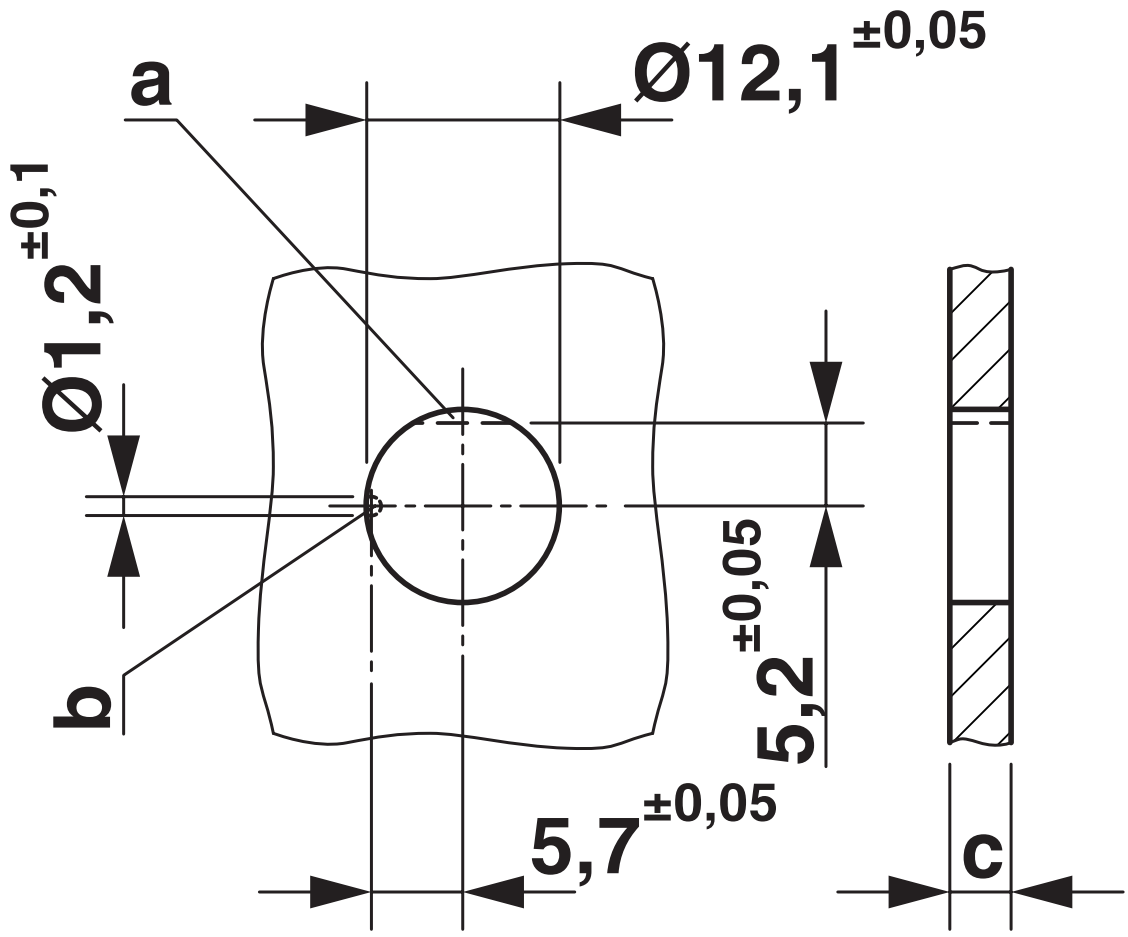
Drawings

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

Approvals

To download certificates, visit the product detail page: https://www.phoenixcontact.com/us/products/1034440

TÜV Rheinland
Approval ID: R 60165003-0001

Classifications

ECLASS

ECLASS-13.0	27440107
ECLASS-15.0	27440107

ETIM

ETIM 10.0	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.)	Triphenyl phosphate(CAS: 115-86-6)
SCIP	0872445f-3b14-409b-b257-b164415eace4

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