PV-FT-CM-C-2,5-450-RD-FE - Device connector front mounting

1627576

https://www.phoenixcontact.com/us/products/1627576

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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: 2.5 mm^2, rated voltage: 1000 V DC, rated current: 27 A, Connection method: Crimp, cable length: 450

Commercial data

Item number	1627576
Packing unit	100 pc
Minimum order quantity	100 pc
Product key	ABLBAA
GTIN	4055626324548
Weight per piece (including packing)	22.22 g
Weight per piece (excluding packing)	22.22 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.

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

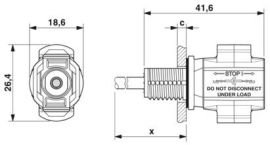
Connection technology

Connection method	Crimp

Conductor connection

Tightening torque	1.8 Nm ±0.1 Nm

Dimensions

Dimensional drawing	
Width	18.4 mm
Height	26.4 mm
Length	41.55 mm

Electrical properties

Rated voltage	1000 V DC in accordance with IEC 62852:2014/AMD1:2020
Rated surge voltage (II/2)	8 kV
Rated surge voltage (III/2)	8 kV
Rated surge voltage (III/3)	16 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	PPE
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
Contact material	Cu
Contact surface material	Ag
Contact carrier material	PPE
Outer sheath, material	PE-X

Cable/line

Cable length	450 mm
Cable type	S01
Structure of individual litz in acc. with VDE 0295 / smallest wire diameter	50x0.25
External cable diameter	4.25 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	21.25 mm
Smallest bending radius, movable installation	42.5 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)

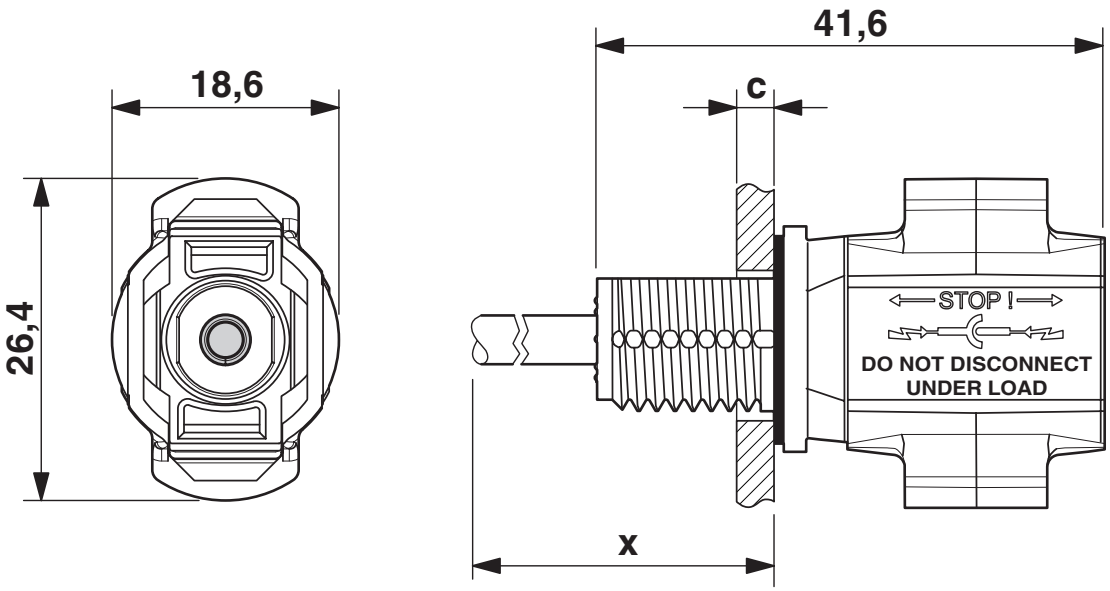
Degree of protection (not plugged in)	IP20
Ambient temperature (operation) (male connector/female connector)	-40 °C ... 85 °C
Ambient temperature (assembly)	-25 °C ... 50 °C

Standards and regulations

Standards/specifications	IEC 62852:2014/AMD1:2020

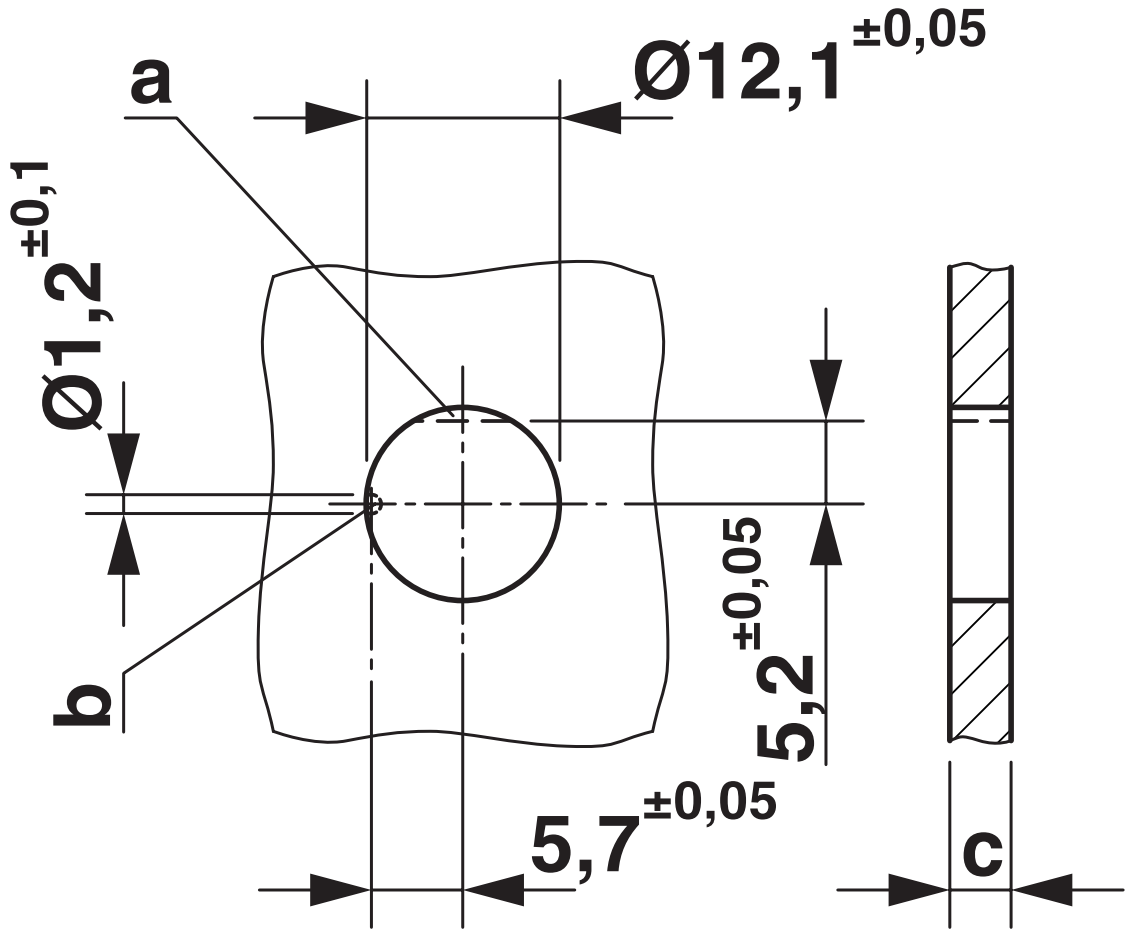
Drawings

Dimensional drawing



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

Dimensional drawing



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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