PV-FT-CF-C-6-500-BK - Device connector front mounting

1621847

https://www.phoenixcontact.com/us/products/1621847

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CRIMP



Device connector front mounting, Range of articles: SUNCLIX, color: black, number of positions: 1, min. conductor cross-section: 6 mm^2, rated current: 40 A, Connection method: Crimp, cable length: 500

Commercial data

Item number	1621847
Packing unit	50 pc
Minimum order quantity	50 pc
Sales key	AB02
Product key	ABLBAA
GTIN	4046356988537
Weight per piece (including packing)	42 g
Weight per piece (excluding packing)	41.59 g
Customs tariff number	85446010
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

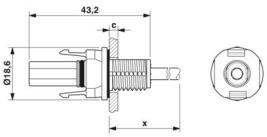
Connection technology

Connection method	Crimp

Conductor connection

Tightening torque	1.8 Nm ±0.1 Nm

Dimensions

Dimensional drawing	
Width	18.6 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 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
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 LR 3065/50
Contact surface material	Ag
O-ring material	Silopren LSR 2660
Outer sheath, material	PE-X

Cable/line

Cable length	500 mm
Cable type	Railway cable
Structure of individual litz in acc. with VDE 0295 / smallest wire diameter	84x0.3
Cable type	Railway cable Radox GKW-S
Cable structure	tin-plated, fine-wired, IEC 60228 Class 5
External cable diameter	5.40 mm ±0.15 mm
	5.10 mm 4.95 mm 5.25 mm ±0.15 mm
Outer sheath, material	PE-X
External sheath, color	black
Single wire, material	Cu
Single wire, cross section	6 mm²
Cable cross section	6 mm²
Smallest bending radius, fixed installation	10.2 mm (2x Ø)
Smallest bending radius, movable installation	15.3 mm (3x Ø)
Cable pull-out force	> 80 N
Halogen-free	yes
Resistance to oil	yes
Flame resistance	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
Degree of protection	IP66/IP68 (2 m / 24 h)
Ambient temperature (operation) (male connector/female connector)	-40 °C ... 85 °C
Ambient temperature (assembly)	-25 °C ... 50 °C
Resistance to oil	yes

Standards and regulations

Flame resistance	yes
Resistance to oil	yes
Standards/specifications	IEC 62852:2014/AMD1:2020

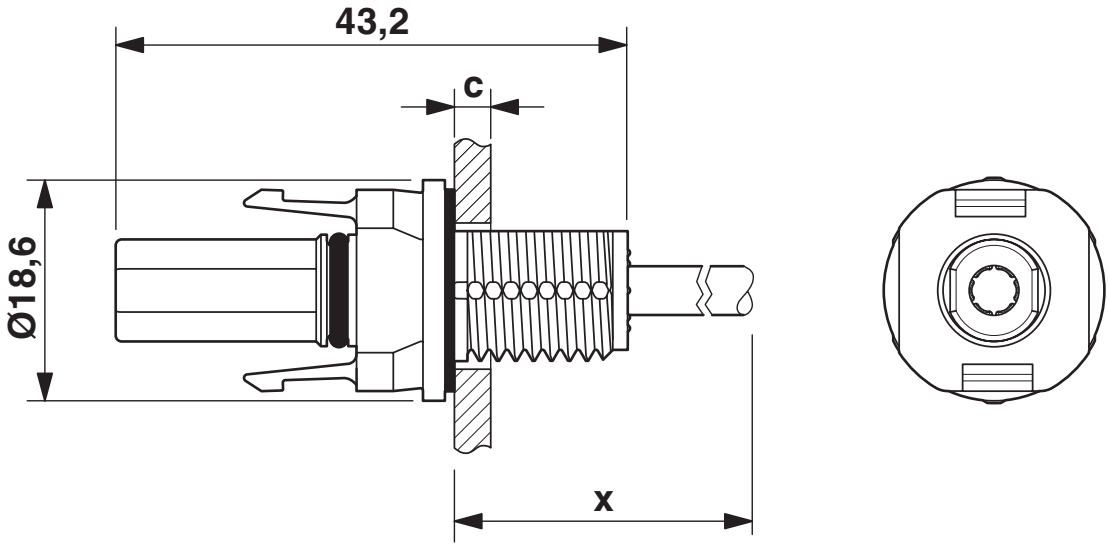
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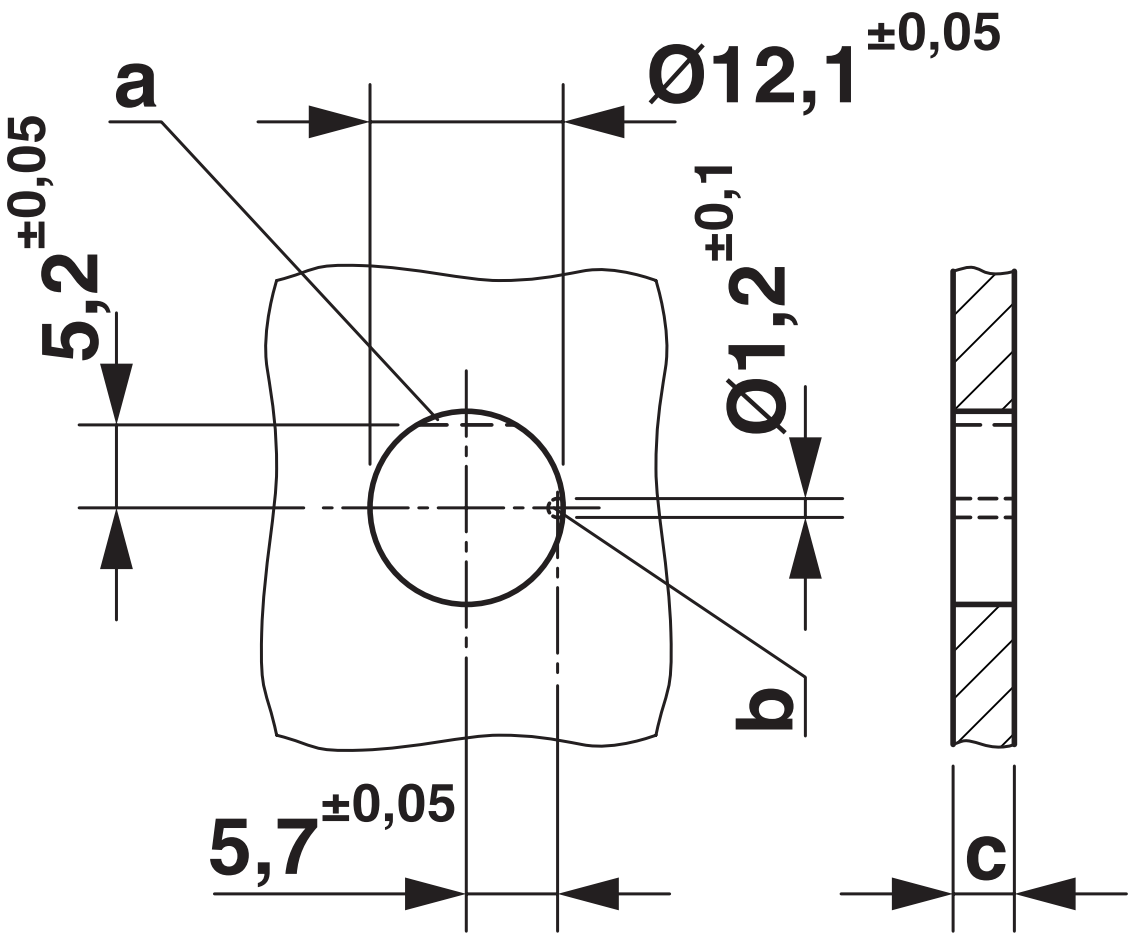
Drawings

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

Approvals

To download certificates, visit the product detail page: https://www.phoenixcontact.com/us/products/1621847

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.)	No substance above 0.1 wt%

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