PV-FT-CF-C-6-1800-RD - Device connector front mounting

1706807

https://www.phoenixcontact.com/us/products/1706807

Please be informed that the data shown in this PDF document is generated from our online catalog. Please find the complete data in the user documentation. Our general terms of use for downloads are valid.

CRIMP



Device connector front mounting, Range of articles: SUNCLIX, housing material: PPE, color: black, min. conductor cross-section: 6 mm^2, rated current: 40 A, Connection method: Crimp, cable length: 1800

Commercial data

Item number	1706807
Packing unit	10 pc
Minimum order quantity	10 pc
Note	Made to order (non-returnable)
Product key	ABLBAA
GTIN	4046356881210
Weight per piece (including packing)	22.22 g
Weight per piece (excluding packing)	22.22 g
Country of origin	DE

PV-FT-CF-C-6-1800-RD - Device connector front mounting

1706807

https://www.phoenixcontact.com/us/products/1706807

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

Insulation characteristics

Protection class	II
Degree of pollution	2

Connection data

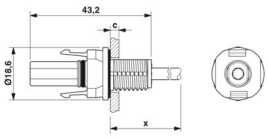
Connection technology

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 (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	Silver Ag
Housing material	PPE
Cable seal material	Elastosil
Contact material	Cu
Contact surface material	Ag
Contact carrier material	PPE
O-ring material	Silopren
Outer sheath, material	PE-X

Cable/line

Cable length	1800 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
External sheath, color	red
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

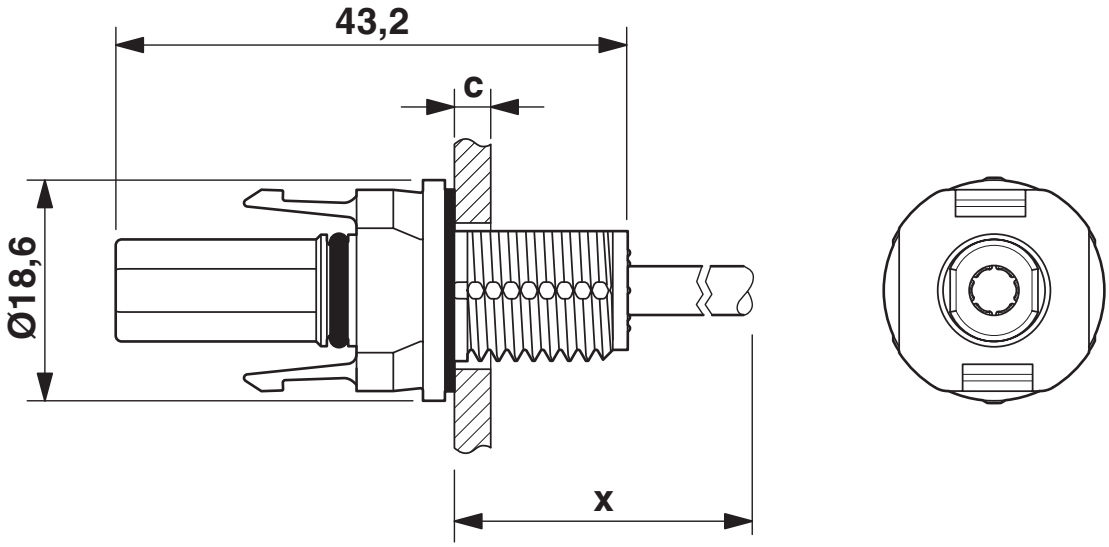
Environmental and real-life conditions

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

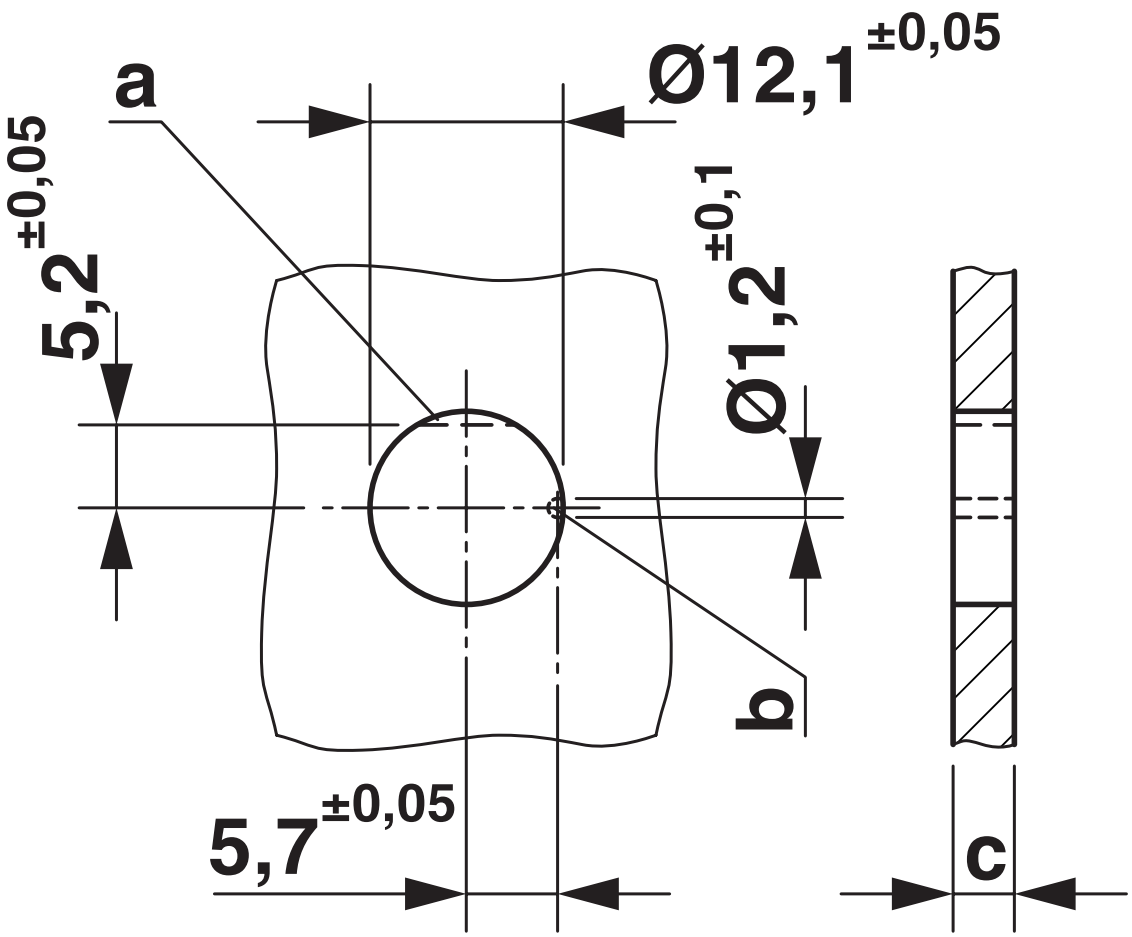
Drawings

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%

Phoenix Contact 2026 © - all rights reserved
https://www.phoenixcontact.com

Phoenix Contact USA
586 Fulling Mill Road
Middletown, PA 17057, United States
(+717) 944-1300
info@phoenixcon.com