

Photovoltaic connector - PV-FT-CM-C-6-130-RD - 1805180

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's documentation. Our General Terms of Use for Downloads are valid
(<http://phoenixcontact.com/download>)



Photovoltaic connector, Photovoltaic connector, housing material: PPE, color: black, number of positions: 1, min. conductor cross section: 6 mm², Connection method: Crimp, Type of contact: Pin, cable length: 130. can only be released using a tool

RoHS

Key Commercial Data

Packing unit	1 pc
Minimum order quantity	50 pc
GTIN	 4 046356 671453
GTIN	4046356671453
Weight per Piece (excluding packing)	16.800 g
Custom tariff number	85444290
Country of origin	Germany

Technical data

Dimensions

Fixed cable length	130 mm
External cable diameter	5.4 mm ±0.15 mm

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

General

Design	Pin
--------	-----

Photovoltaic connector - PV-FT-CM-C-6-130-RD - 1805180

Technical data

General

Tightening torque nut	1.8 Nm $\pm$ 0.1 Nm
Insertion force	45 N $\pm$ 10 N
Disconnect force	250 N $\pm$ 50 N (when locked)
Pull-out force of cable $\geq$ disconnect force	> 80 N
Insertion/withdrawal cycles	100
Rated voltage	1500 V
Rated current (6.0 mm ²)	40 A
Nominal cross section	6 mm ²
Protection class	II

Material

Color	black
Insulating material	mPPE
Contact material	Cu
Contact surface material	Ag
Flammability rating according to UL 94	V0

Connection data

Connection method	Crimp
Connection capacity	6 mm ²
Contact resistance with connected conductor	$\leq$ 0.45 m Ω
Cable type	S03

Conductor

Outer sheath, material	PE-X
External sheath, color	red, similar to RAL 3000
Smallest bending radius, fixed installation	27 mm (5x $\emptyset$)
Smallest bending radius, movable installation	54 mm (10x $\emptyset$)

Standards and Regulations

Flame resistance	no
Resistance to oil	no
Halogen-free	yes
Flammability rating according to UL 94	V0

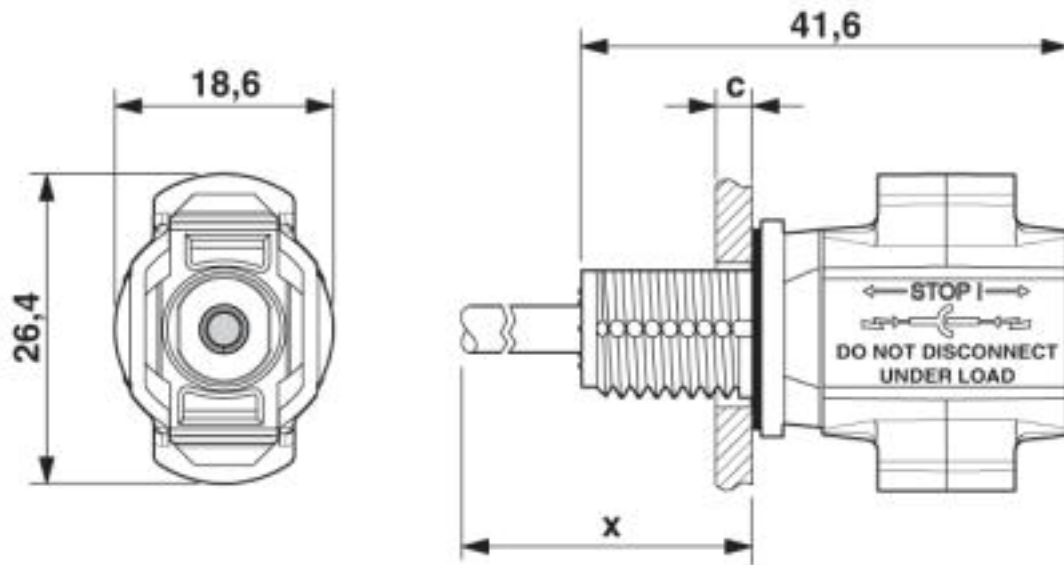
Environmental Product Compliance

China RoHS	Environmentally friendly use period: unlimited = EFUP-e
	No hazardous substances above threshold values

Drawings

Photovoltaic connector - PV-FT-CM-C-6-130-RD - 1805180

Dimensional drawing

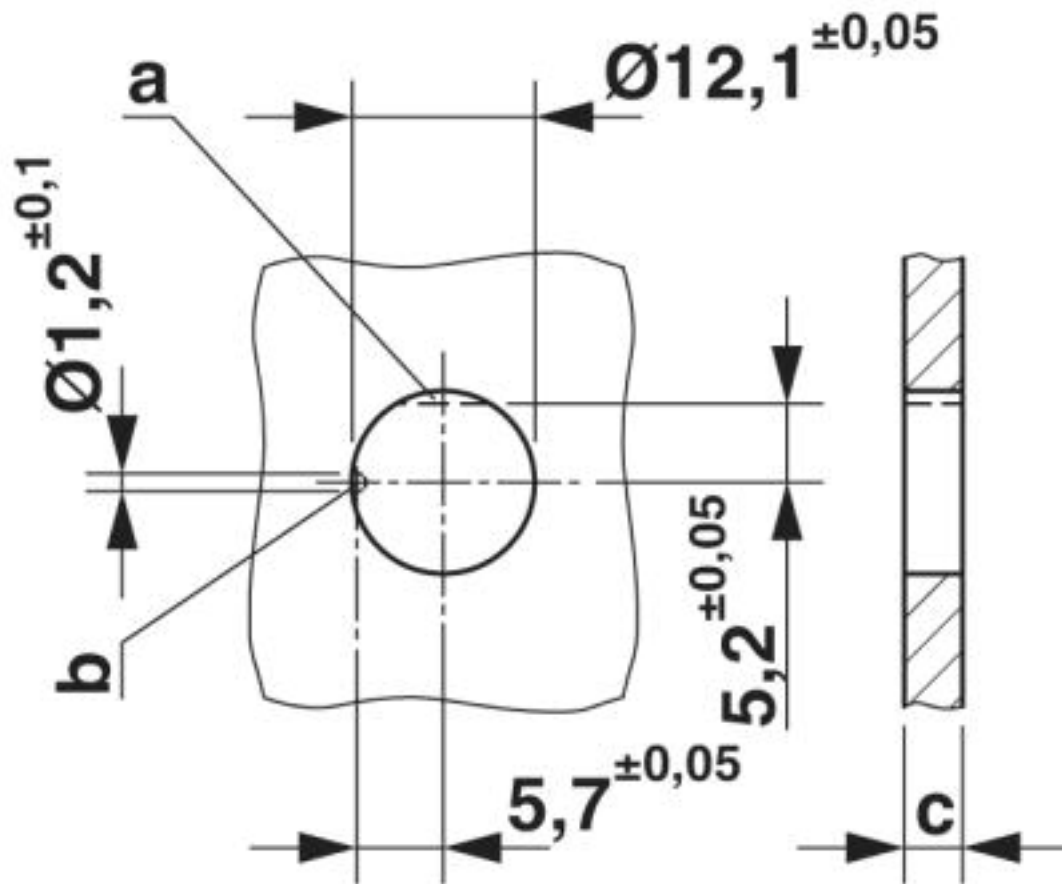


Dimension x = cable length

c: panel thickness - plastic: 2 - 6 mm; metal: 2 - 5 mm

Photovoltaic connector - PV-FT-CM-C-6-130-RD - 1805180

Dimensional drawing



a: anti-rotation protection
b: coding
c: panel thickness - plastic: 2 - 6 mm; metal: 2 - 5 mm

Classifications

eCl@ss

eCl@ss 4.0	27260700
eCl@ss 4.1	27260700
eCl@ss 5.0	27260700
eCl@ss 5.1	27260700
eCl@ss 6.0	27260700
eCl@ss 7.0	27440102
eCl@ss 8.0	27440102
eCl@ss 9.0	27440103

Photovoltaic connector - PV-FT-CM-C-6-130-RD - 1805180

Classifications

ETIM

ETIM 3.0	EC001121
ETIM 4.0	EC001753
ETIM 5.0	EC002635
ETIM 6.0	EC002061

UNSPSC

UNSPSC 6.01	30211810
UNSPSC 7.0901	39121409
UNSPSC 11	39121409
UNSPSC 12.01	39121409
UNSPSC 13.2	39121413

Approvals

Approvals

Approvals

TÜV Rheinland / EAC

Ex Approvals

Approval details

TÜV Rheinland		http://www.certipedia.com	R 60126961
Nominal voltage UN		1500 V	

EAC		B.01742
-----	---	---------

Accessories

Accessories

Flat nut

Photovoltaic connector - PV-FT-CM-C-6-130-RD - 1805180

Accessories

Nut - PV-FT-C NUT BK - 1775880



Nut for securing SUNCLIX panel feed-throughs to housing. NB: This nut must always be ordered separately.

Protective cap

Protective cap - PV-C PROTECTION CAP - 1785430



Protective cap for SUNCLIX photovoltaic connector; transport protection for the mating face.