


# Photovoltaic connector - PV-FT-CF-C-6-270-BK - 1705051

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RoHS

## Key Commercial Data

Packing unit	50 pc
GTIN	 4 046356 751001
GTIN	4046356751001

## Technical data

### Dimensions

Fixed cable length	270 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)	IP65
Ambient temperature (operation)	-40 °C ... 85 °C
Ambient temperature (assembly)	-25 °C ... 50 °C

### General

Design	Socket
Tightening torque nut	1.8 Nm ±0.1 Nm
Insertion force	45 N ±10 N
Disconnect force	250 N ±50 N
Pull-out force of cable >= disconnect force	> 80 N
Rated voltage	1500 V
Rated current (6.0 mm <sup>2</sup> )	40 A
Nominal cross section	6 mm <sup>2</sup>
Protection class	II

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## Technical data

### 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 <sup>2</sup>
Contact resistance with connected conductor	0.45 mΩ
Cable type	S03

### Conductor

Outer sheath, material	PE-X
External sheath, color	black

### Standards and Regulations

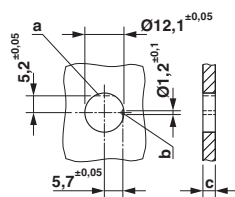
Flammability rating according to UL 94	V0
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### Environmental Product Compliance

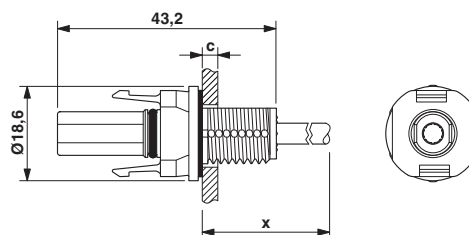
China RoHS	Environmentally friendly use period: unlimited = EFUP-e
	No hazardous substances above threshold values

## Drawings

Dimensional drawing



Dimensional drawing



a: anti-rotation protection

b: coding

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

Dimension x = cable length

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

## Approvals

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TÜV Rheinland / VDE Zeichengenehmigung / EAC


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## Approvals

Ex Approvals

### Approval details

TÜV Rheinland	<a href="http://www.certipedia.com">http://www.certipedia.com</a>	R 60126961
Nominal voltage UN	1500 V	

VDE Zeichengenehmigung		<a href="http://www2.vde.com/de/Institut/Online-Service/VDE-gepruefteProdukte/Seiten/Online-Suche.aspx">http://www2.vde.com/de/Institut/Online-Service/VDE-gepruefteProdukte/Seiten/Online-Suche.aspx</a>	40031807
Nominal voltage UN	1500 V		
Nominal current IN	40 A		
mm <sup>2</sup> /AWG/kcmil	6		

EAC		B.00767
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