

# Connector - PV-CM-S 6-16 (-) - 1790797


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, nominal current: 65 A, nom. voltage: 1500 V, connection method: Spring-cage, color: black. can only be released using a tool



## Key Commercial Data

Packing unit	25 STK
GTIN	 4 046356 607438
GTIN	4046356607438

## Technical data

### Dimensions

External cable diameter	5.5 mm ... 10 mm
-------------------------	------------------

### Ambient conditions

Degree of protection (when plugged in)	IP66 / IP68 (2 m / 24 h)
Ambient temperature (operation)	-40 °C ... 85 °C
Ambient temperature (assembly)	-25 °C ... 50 °C

### General

Design	Pin
Tightening torque nut	3 Nm ±0.1 Nm
Insertion force	45 N ±10 N
Disconnect force	250 N ±50 N
Pull-out force of cable >= disconnect force	> 500 N
Rated voltage	1500 V
Rated current (6.0 mm <sup>2</sup> )	40 A
Rated current (10 mm <sup>2</sup> )	50 A
Rated current (16 mm <sup>2</sup> )	65 A
Nominal cross section	16 mm <sup>2</sup>
Protection class	II

# Connector - PV-CM-S 6-16 (-) - 1790797

## 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	Spring-cage
Connection capacity	6 mm <sup>2</sup> ... 16 mm <sup>2</sup>
Contact resistance with connected conductor	0.45 mΩ
Stripping length	18 mm
Cable type	PV1-F cables

### Standards and Regulations

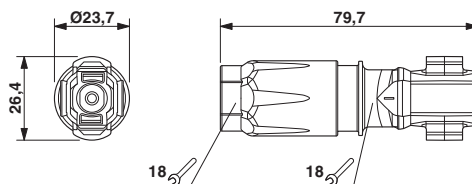
Flammability rating according to UL 94	V0
--	----

### Environmental Product Compliance

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

## Drawings

Dimensional drawing



## Approvals

### Approvals

Approvals


VDE Zeichengenehmigung / EAC

Ex Approvals

### Approval details

## Connector - PV-CM-S 6-16 (-) - 1790797

### Approvals

VDE Zeichengenehmigung		<a href="http://www.vde.com/en/Institute/OnlineService/VDE-approved-products/Pages/Online-Search.aspx">http://www.vde.com/en/Institute/OnlineService/VDE-approved-products/Pages/Online-Search.aspx</a>	40031807
mm <sup>2</sup> /AWG/kcmil		6	
Nominal current I <sub>N</sub>		40 A	
Nominal voltage U <sub>N</sub>		1500 V	

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

Phoenix Contact 2017 © - all rights reserved  
<http://www.phoenixcontact.com>

PHOENIX CONTACT GmbH & Co. KG  
Flachsmarktstr. 8  
32825 Blomberg  
Germany  
Tel. +49 5235 300  
Fax +49 5235 3 41200  
<http://www.phoenixcontact.com>