

# PCB direct plug - CDDC 1,5/ 9-PV-3,5 - 1016520

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PCB direct plug, nominal cross section: 1.5 mm<sup>2</sup>, color: green, nominal current: 8 A, rated voltage (III/2): 160 V, contact surface: Tin, Number of potentials: 18, Number of rows: 2, Number of positions per row: 9, number of connections: 18, product range: CDDC 1,5/..-PV, pitch: 3.5 mm, connection method: Crimp connection, mounting: SKEDD - Direct plug-in technology, conductor/PCB connection direction: 90 °, pin layout: Linear pinning, Stecksystem: SKEDD, Locking: Snap-in locking, type of packaging: packed in cardboard


The figure shows a 10-pos. version with 20 contacts

## Your advantages

- ✓ SKEDD direct plug-in technology enables flexible positioning on the PCB
- ✓ Reduced component and process costs: simple insertion by hand and vibration-resistant connection
- ✓ Contacts arranged in a double row enable high packing density in a compact area
- ✓ Wide range of applications, thanks to suitability for PCBs with chemically tin-plated or Hot Air Leveling (HAL) surface
- ✓ Cost-effective connection of crimped conductors in large quantities
- ✓ Tools for manual and automatic crimping available as an option



## Key Commercial Data

Packing unit	100 pc
GTIN	 4 055626 498324
GTIN	4055626498324

## Technical data

### Item properties

Brief article description	Direct connector
Plug-in system	SKEDD
Range of articles	CDDC 1,5/..-PV
Pitch	3.5 mm
Number of positions	9
Mounting type	SKEDD - Direct plug-in technology
Pin layout	Linear pinning
Locking	Self-locking flange
Number of levels	2

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## Technical data

### Item properties

Number of connections	18
Number of potentials	18

### Electrical parameters

Nominal current	8 A
Nom. voltage	160 V
Rated voltage	160 V
Rated voltage (III/2)	160 V
Rated voltage (II/2)	320 V
Rated surge voltage (III/3)	2.5 kV
Rated surge voltage (III/2)	2.5 kV
Rated surge voltage (II/2)	2.5 kV

### Connection capacity

Connection method	Crimp connection
Conductor cross section flexible	0.14 mm <sup>2</sup> ... 1.5 mm <sup>2</sup>
Conductor cross section AWG / kcmil	26 ... 16

### Material data - housing

Housing color	green (6021)
Insulating material	PA
Insulating material group	I
CTI according to IEC 60112	600
Flammability rating according to UL 94	V0
Glow wire flammability index GWFI according to EN 60695-2-12	850
Glow wire ignition temperature GWIT according to EN 60695-2-13	775
Temperature for the ball pressure test according to EN 60695-10-2	125 °C

### Material data – actuating element

Insulating material	PA
CTI according to IEC 60112	600
Flammability rating according to UL 94	V0
Glow wire flammability index GWFI according to EN 60695-2-12	850
Glow wire ignition temperature GWIT according to EN 60695-2-13	775
Temperature for the ball pressure test according to EN 60695-10-2	125 °C

### Dimensions for the product

Caption	Schematische Abbildung - weitere Details siehe Produktfamilienzeichnung im Download Center
Length [ l ]	13 mm
Width [ w ]	38.8 mm
Height [ h ]	19.6 mm
Pitch	3.5 mm
Height (without solder pin)	16 mm

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## Technical data

### Dimensions for the product

Pin spacing	7.00 mm
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### Packaging information

Type of packaging	packed in cardboard
Pieces per package	100
Denomination packing units	Pcs.

### General product information

Type of note	Note on the contact
	Note on application
	Note on application
	Note on application
	Note on application
Note	The information on the basic material and the finish properties of the crimp contacts is to be found in the E-Shop in the technical data for the respective crimp contact.
	All laboratory tests are performed in combination with the crimp contacts specified as accessories.
	The current depends on the crimp contact and conductor cross section used.
	The corresponding crimp contacts are to be found in the "Accessories" tab.
	The crimp contacts may only be processed with approved crimping tools.

### Ambient conditions

Ambient temperature (storage/transport)	-40 °C ... 70 °C
Ambient temperature (assembly)	-5 °C ... 100 °C
Ambient temperature (operation)	-55 °C ... 105 °C (dependent on the derating curve)

### Air clearances and creepage distances

Clearances and creepage distances	IEC 60664-1:2007-04
Specification	IEC 60664-1:2007-04
Minimum clearance - inhomogeneous field (III/3)	1.5 mm
Minimum clearance - inhomogeneous field (III/2)	1.5 mm
Minimum clearance - inhomogeneous field (II/2)	1.5 mm
Minimum creepage distance value (III/3)	2 mm
Minimum creepage distance value (III/2)	1.5 mm
Minimum creepage distance value (II/2)	1.6 mm

## Classifications

### eCl@ss

eCl@ss 10.0.1	27440309
eCl@ss 11.0	27460202

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## 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	27440309
eCl@ss 8.0	27440309
eCl@ss 9.0	27440309

### ETIM

ETIM 5.0	EC002637
ETIM 6.0	EC002638
ETIM 7.0	EC002638

## Approvals

### Approvals

#### Approvals

cULus Recognized / VDE Zeichengenehmigung / IECCEB CB Scheme

#### Ex Approvals

### Approval details

cULus Recognized		<a href="http://database.ul.com/cgi-bin/XYV/template/LISEXT/1FRAME/index.htm">http://database.ul.com/cgi-bin/XYV/template/LISEXT/1FRAME/index.htm</a>	E60425-20160718
	B	D	
Nominal voltage UN	150 V	300 V	
Nominal current IN	8 A	8 A	
mm <sup>2</sup> /AWG/kcmil	26-16	26-16	

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>	40044617
Nominal voltage UN	160 V		
Nominal current IN	8 A		
mm <sup>2</sup> /AWG/kcmil	0.14-1.5		

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## Approvals

IECEE CB Scheme



<http://www.iecee.org/>

DE1-63213

## Accessories

Accessories

Coding element

Coding profile - CP-PT 1,5 - 1985564

Coding profile, inserted into the hole on the plug, made from red insulating material, diameter: 1.35 mm



## Additional products

Crimp contact - CDC-MP 0,14-0,5 - 1016664



Crimp contact

Crimp contact - CDC-MP 0,14-0,5-R - 1016663



Crimp contact

Crimp contact - CDC-MP 0,5-1,5 - 1016662



Crimp contact

## PCB direct plug - CDDC 1,5/ 9-PV-3,5 - 1016520

### Accessories

Crimp contact - CDC-MP 0,5-1,5-R - 1016661



Crimp contact

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