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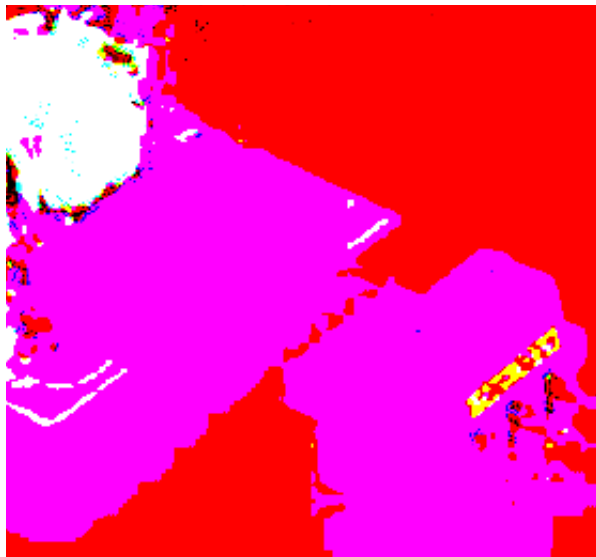
## POWER COMBICON Plugs and Headers PC 6/... for Currents up to 41 A, 10.16 mm Pitch

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The PC 6 plug connector features highly conductive metal alloys to offer a current carrying capacity of 41 A at a rated voltage of 1000 V. A double steel spring on the female side offers additional contact reliability especially in the case of extreme fluctuations of power or temperature.

The plugs are also available with a screw flange for vibration-proof connection to the headers, with 2 to 8 positions.

The plugs and headers are coded with the CP-HCC 4. coding profile. The self-adhesive marker cards SK 10/5 are used for labeling (see COMBICON catalog).



# PC 6/...-ST-10,16


## 10.16 mm Pitch



**Note:**

COMBICON plug connectors may only be actuated in the no-load condition. If smaller loads need to be switched for operational reasons, experimental values are available on request.

Description	No. of positions	Dim. a [mm]
<b>POWER COMBICON plugs,</b> 10.16 mm pitch, color: green	2	10.16
	3	20.32
	4	30.48
	5	40.64
	6	50.80
	7	60.96
	8	71.12

(1) **Coding profile**, is inserted into the recess on the plug and header, insulating material: red 

(2) **Marker card**, with 10 pcs. 10-section marker strips, white, self-adhesive, for 100 terminal blocks

(3) **Screwdriver**, blade: 1.0 x 4.0 x 100 mm, length: 200 mm 

**Technical data**

Dimensions	
Pitch	[mm]
Hole diameter	[mm]
Pin dimensions	[mm]x[mm]

**Technical data in accordance with IEC/ DIN VDE**

Insulating material group	-
Surge voltage category / contamination class	-/-
Rated voltage	[V]
Rated surge voltage	[kV]
Nominal current / cross section	[A]/[mm <sup>2</sup> ]
Maximum load current / cross section	[A]/[mm <sup>2</sup> ]

**Connection capacity**

Solid / stranded / conductor sizes	[mm <sup>2</sup> ]/[mm <sup>2</sup> ]/AWG
Stranded with ferrule without / with plastic sleeve	[mm <sup>2</sup> ]

**Multiple connection (2 conductors with same cross section)**

Solid / stranded	[mm <sup>2</sup> ]
Stranded with ferrule with plastic sleeve	[mm <sup>2</sup> ]
Stranded with TWIN ferrule with plastic sleeve	[mm <sup>2</sup> ]

**Stripping length** [mm]

**Internal cylindrical gauge (IEC 60 947-1)**

**Thread**

**Torque** [Nm]

**Insulating material**

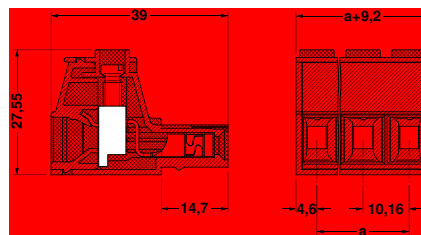
Inflammability class in acc. with UL 94

**Approval data (UL/CUL and CSA)**

Nominal voltage / current / conductor sizes UL/CUL:[V]/[A]/AWG  
CSA:[V]/[A]/AWG

Type	Order No.	Pcs./Pkt.
<b>PC 6/2-ST-10,16</b>	<b>19 13 50 7</b>	50
<b>PC 6/3-ST-10,16</b>	<b>19 13 51 0</b>	
<b>PC 6/4-ST-10,16</b>	<b>19 13 52 3</b>	
<b>PC 6/5-ST-10,16</b>	<b>19 13 53 6</b>	
<b>PC 6/6-ST-10,16</b>	<b>19 13 54 9</b>	
<b>PC 6/7-ST-10,16</b>	<b>19 13 55 2</b>	
<b>PC 6/8-ST-10,16</b>	<b>19 13 56 5</b>	
<b>CP-HCC 4</b>	<b>16 00 02 7</b>	
<b>SK 10/5</b> (see COMBICON catalog)		
<b>SZS 1,0 x 4,0</b>	<b>12 05 06 6</b>	10

see description			
		10.16	
		-	
		-	
		I	
III / 3	III / 2	II / 2	
1000	1000	1000	
8	8	8	
	41 / 6.0		
	41 / 6.0		
	0.5 - 10.0 / 0.5 - 6.0 / 20 - 7		
	0.5 - 6.0 / 0.5 - 6.0		
	0.5 - 6.0 / 0.5 - 6.0		
	0.5 - 2.5		
	0.5 - 4.0		
	12		
	A 5		
	M 4		
	1.2 - 1.5		
	PA		
	V0		
	600 / 41 / 20 - 8		
	-		




# PC 6/...-STF-10,16 with Screw Flange 10.16 mm Pitch



## HNote:

COMBICON plug connectors may only be actuated in the no-load condition. If smaller loads need to be switched for operational reasons, experimental values are available on request.

Description	No. of positions	Dim. a [mm]
<b>POWER COMBICON plugs,</b> 10.16 mm pitch, color: green, with screw flange	2	10.16
	3	20.32
	4	30.48
	5	40.64
	6	50.80
	7	60.96
	8	71.12

(1) **Coding profile**, is inserted into the recess on the plug and header, insulating material: red 

(2) **Marker card**, with 10 pcs. 10-section marker strips, white, self-adhesive, for 100 terminal blocks

(3) **Screwdriver**, blade: 1.0 x 4.0 x 100 mm, length: 200 mm 

## Technical data

Dimensions	
Pitch	[mm]
Hole diameter	[mm]
Pin dimensions	[mm]x[mm]

## Technical data in accordance with IEC/ DIN VDE

Insulating material group	–
Surge voltage category / contamination class	–/–
Rated voltage	[V]
Rated surge voltage	[kV]
Nominal current / cross section	[A]/[mm <sup>2</sup> ]
Maximum load current / cross section	[A]/[mm <sup>2</sup> ]

## Connection capacity

Solid / stranded / conductor sizes	[mm <sup>2</sup> ]/[mm <sup>2</sup> ]/AWG
Stranded with ferrule without / with plastic sleeve	[mm <sup>2</sup> ]

## Multiple connection (2 conductors with same cross section)

Solid / stranded	[mm <sup>2</sup> ]
Stranded with ferrule with plastic sleeve	[mm <sup>2</sup> ]
Stranded with TWIN ferrule with plastic sleeve	[mm <sup>2</sup> ]

**Stripping length** [mm]

**Internal cylindrical gauge (IEC 60 947-1)**

**Thread**

**Torque** [Nm]

## Insulating material

Inflammability class in acc. with UL 94

## Approval data (UL/CUL and CSA)

Nominal voltage / current / conductor sizes UL/CUL:[V]/[A]/AWG  
CSA:[V]/[A]/AWG

Type	Order No.	Pcs./Pkt.
<b>PC 6/2-STF-10,16</b>	<b>19 13 57 8</b>	50
<b>PC 6/3-STF-10,16</b>	<b>19 13 58 1</b>	
<b>PC 6/4-STF-10,16</b>	<b>19 13 59 4</b>	
<b>PC 6/5-STF-10,16</b>	<b>19 13 60 4</b>	
<b>PC 6/6-STF-10,16</b>	<b>19 13 61 7</b>	
<b>PC 6/7-STF-10,16</b>	<b>19 13 62 0</b>	
<b>PC 6/8-STF-10,16</b>	<b>19 13 63 3</b>	
<b>CP-HCC 4</b>	<b>16 00 02 7</b>	
<b>SK 10/5</b> (see COMBICON catalog)		
<b>SZS 1,0 x 4,0</b>	<b>12 05 06 6</b>	10

see description

10.16

–

–

	I		
III / 3	III / 2	II / 2	
1000	1000	1000	
8	8	8	
	41 / 6.0		
	41 / 6.0		
	0.5 - 10.0 / 0.5 - 6.0 / 20 - 7		
	0.5 - 6.0 / 0.5 - 6.0		

0.5 - 6.0 / 0.5 - 6.0

0.5 - 2.5

0.5 - 4.0

12

A 5

M 4

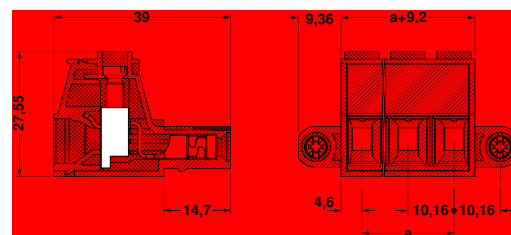
1.2 - 1.5

PA

V0

600 / 41 / 20 - 8

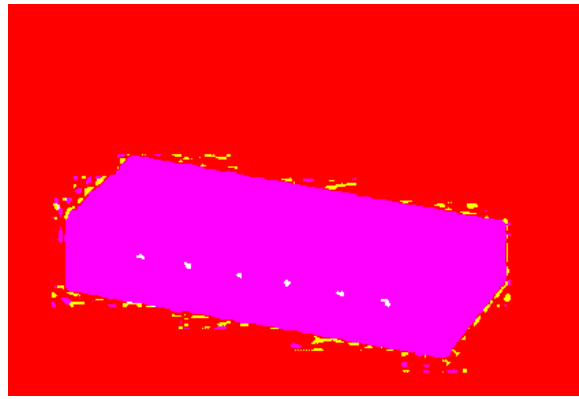
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
# PC 6/...-GF-10,16 with Threaded Flange 10.16 mm Pitch



**Note:**

COMBICON plug connectors may only be actuated in the no-load condition. If smaller loads need to be switched for operational reasons, experimental values are available on request.

Description	No. of positions	Dim. a [mm]
<b>POWER COMBICON headers,</b> 10.16 mm pitch, color: green, plug-in direction parallel to the PCB, with threaded flange	2	10.16
	3	20.32
	4	30.48
	5	40.64
	6	50.80
	7	60.96
	8	71.12

(1) **Coding profile**, is inserted into the recess on the plug and header, insulating material: red 

(2) **Marker card**, with 10 pcs. 10-section marker strips, white, self-adhesive, for 100 terminal blocks

**Technical data**

Dimensions	
Pitch	[mm]
Hole diameter	[mm]
Pin dimensions	[mm]x[mm]

**Technical data in accordance with IEC/ DIN VDE**

Insulating material group	-
Surge voltage category / contamination class	-/-
Rated voltage	[V]
Rated surge voltage	[kV]
Nominal current / cross section	[A]/[mm <sup>2</sup> ]
Maximum load current / cross section	[A]/[mm <sup>2</sup> ]

**Connection capacity**

Solid / stranded / conductor sizes	[mm <sup>2</sup> ]/[mm <sup>2</sup> ]/AWG
Stranded with ferrule without / with plastic sleeve	[mm <sup>2</sup> ]

**Multiple connection (2 conductors with same cross section)**

Solid / stranded	[mm <sup>2</sup> ]
Stranded with ferrule with plastic sleeve	[mm <sup>2</sup> ]
Stranded with TWIN ferrule with plastic sleeve	[mm <sup>2</sup> ]

**Stripping length** [mm]

**Internal cylindrical gauge (IEC 60 947-1)**

**Thread**

**Torque** [Nm]

**Insulating material**

Inflammability class in acc. with UL 94

**Approval data (UL/CUL and CSA)**

Nominal voltage / current / conductor sizes	UL/CUL:[V]/[A]/AWG CSA:[V]/[A]/AWG
---------------------------------------------	---------------------------------------

<sup>1)</sup> 1000 V on printed circuit board.

Type	Order No.	Pcs./Pkt.
<b>PC 6/2-GF-10,16</b>	<b>19 13 71 4</b>	50
<b>PC 6/3-GF-10,16</b>	<b>19 13 72 7</b>	
<b>PC 6/4-GF-10,16</b>	<b>19 13 73 0</b>	
<b>PC 6/5-GF-10,16</b>	<b>19 13 74 3</b>	
<b>PC 6/6-GF-10,16</b>	<b>19 13 75 6</b>	
<b>PC 6/7-GF-10,16</b>	<b>19 13 76 9</b>	
<b>PC 6/8-GF-10,16</b>	<b>19 13 77 2</b>	
<b>CP-HCC 4</b>	<b>16 00 02 7</b>	100
<b>SK 10/5</b> (see COMBICON catalog)		

see description		
10.16		
1.7		
1.0 x 1.2		

	I		
III / 3	III / 2	II / 2	
630 <sup>1)</sup>	1000	1000	
6	8	8	
	41 / -		
	41 / -		

	-
	-

	-
	-
	-

-

-

-

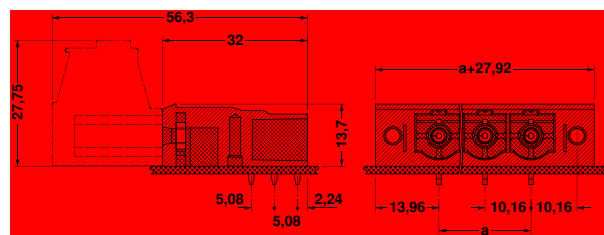
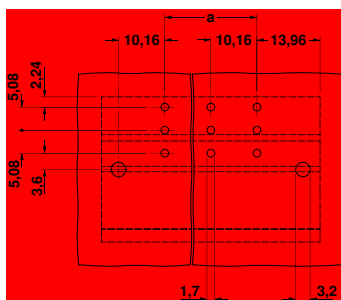
-

PA

V0

300 / 41 / -

-

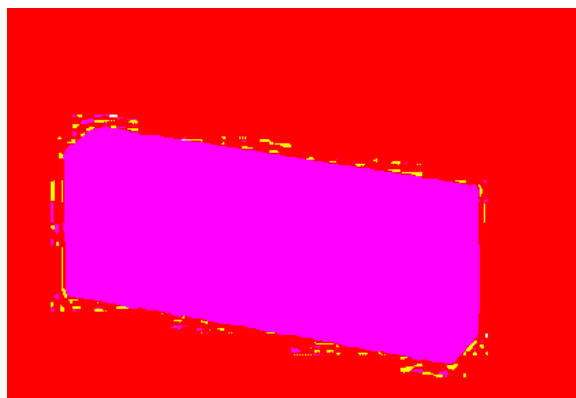


# PCV 6/...-G-10,16


## 10.16 mm Pitch

### Note:

COMBICON plug connectors may only be actuated in the no-load condition. If smaller loads need to be switched for operational reasons, experimental values are available on request.



Description	No. of positions	Dim. a [mm]
<b>POWER COMBICON headers,</b> 10.16 mm pitch, color: green, plug-in direction vertical to the PCB,	2	10.16
	3	20.32
	4	30.48
	5	40.64
	6	50.80
	7	60.96
	8	71.12
	9	81.28

(1) **Coding profile**, is inserted into the recess on the plug and header, insulating material: red 

(2) **Marker card**, with 10 pcs. 10-section marker strips, white, self-adhesive, for 100 terminal blocks

### Technical data

Dimensions	
Pitch	[mm] 10.16
Hole diameter	[mm] 1.7
Pin dimensions	[mm]x[mm] 1.0 x 1.2

### Technical data in accordance with IEC/ DIN VDE

Insulating material group	-
Surge voltage category / contamination class	-/-
Rated voltage	[V] 630 <sup>1)</sup>
Rated surge voltage	[kV] 6
Nominal current / cross section	[A]/[mm <sup>2</sup> ] 41 / -
Maximum load current / cross section	[A]/[mm <sup>2</sup> ] 41 / -

### Connection capacity

Solid / stranded / conductor sizes	[mm <sup>2</sup> ]/[mm <sup>2</sup> ]/AWG -
Stranded with ferrule without / with plastic sleeve	[mm <sup>2</sup> ] -

### Multiple connection (2 conductors with same cross section)

Solid / stranded	[mm <sup>2</sup> ] -
Stranded with ferrule with plastic sleeve	[mm <sup>2</sup> ] -
Stranded with TWIN ferrule with plastic sleeve	[mm <sup>2</sup> ] -

**Stripping length** [mm] -

**Internal cylindrical gauge (IEC 60 947-1)** -

**Thread** -

**Torque** [Nm] -

**Insulating material** PA

Inflammability class in acc. with UL 94 V0

**Approval data (UL/CUL and CSA)**

Nominal voltage / current / conductor sizes	UL/CUL:[V]/[A]/AWG 300 / 41 / -
	CSA:[V]/[A]/AWG -

<sup>1)</sup> 1000 V on printed circuit board.

Type	Order No.	Pcs./Pkt.
<b>PCV 6/2-G-10,16</b>	<b>19 22 48 8</b>	50
<b>PCV 6/3-G-10,16</b>	<b>19 22 49 1</b>	
<b>PCV 6/4-G-10,16</b>	<b>19 22 50 1</b>	
<b>PCV 6/5-G-10,16</b>	<b>19 22 51 4</b>	
<b>PCV 6/6-G-10,16</b>	<b>19 22 52 7</b>	
<b>PCV 6/7-G-10,16</b>	<b>19 22 53 0</b>	
<b>PCV 6/8-G-10,16</b>	<b>19 22 54 3</b>	
<b>PCV 6/9-G-10,16</b>	<b>19 22 55 6</b>	
<b>CP-HCC 4</b>	<b>16 00 02 7</b>	
<b>SK 10/5 (see COMBICON catalog)</b>		

see description

10.16

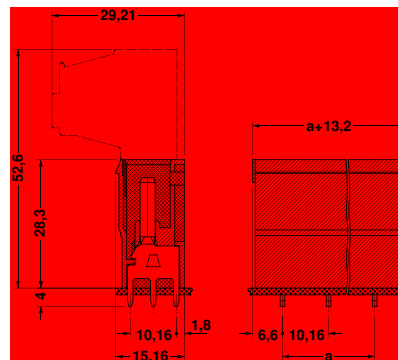
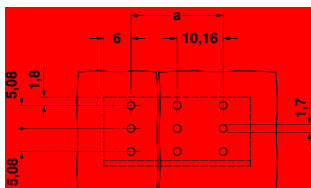
1.7

1.0 x 1.2

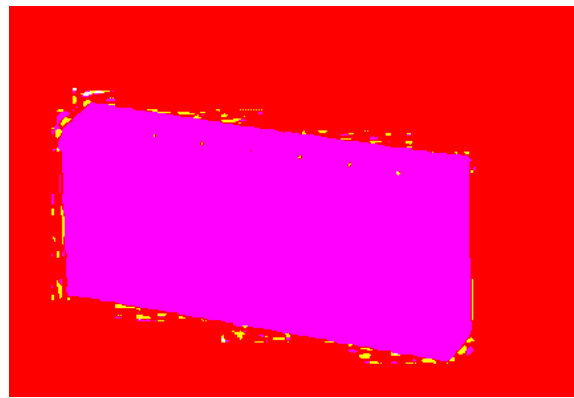
	I	
III / 3	III / 2	II / 2
630 <sup>1)</sup>	1000	1000
6	8	8

41 / -

41 / -




# PCV 6/...-GF-10,16 with Threaded Flange 10.16 mm Pitch



**Note:**

COMBICON plug connectors may only be actuated in the no-load condition. If smaller loads need to be switched for operational reasons, experimental values are available on request.

Description	No. of positions	Dim. a [mm]
<b>POWER COMBICON headers,</b> 10.16 mm pitch, color: green, plug-in direction vertical to the PCB, with threaded flange	2	10.16
	3	20.32
	4	30.48
	5	40.64
	6	50.80
	7	60.96
	8	71.12

(1) **Coding profile**, is inserted into the recess on the plug and header, insulating material: red 

(2) **Marker card**, with 10 pcs. 10-section marker strips, white, self-adhesive, for 100 terminal blocks

**Technical data**

Dimensions	
Pitch	[mm]
Hole diameter	[mm]
Pin dimensions	[mm]x[mm]

**Technical data in accordance with IEC/ DIN VDE**

Insulating material group	-
Surge voltage category / contamination class	-/-
Rated voltage	[V]
Rated surge voltage	[kV]
Nominal current / cross section	[A]/[mm <sup>2</sup> ]
Maximum load current / cross section	[A]/[mm <sup>2</sup> ]

**Connection capacity**

Solid / stranded / conductor sizes	[mm <sup>2</sup> ]/[mm <sup>2</sup> ]/AWG
Stranded with ferrule without / with plastic sleeve	[mm <sup>2</sup> ]

**Multiple connection (2 conductors with same cross section)**

Solid / stranded	[mm <sup>2</sup> ]
Stranded with ferrule with plastic sleeve	[mm <sup>2</sup> ]
Stranded with TWIN ferrule with plastic sleeve	[mm <sup>2</sup> ]

**Stripping length** [mm]

**Internal cylindrical gauge (IEC 60 947-1)**

**Thread**

**Torque** [Nm]

**Insulating material**

Inflammability class in acc. with UL 94

**Approval data (UL/CUL and CSA)**

Nominal voltage / current / conductor sizes	UL/CUL:[V]/[A]/AWG CSA:[V]/[A]/AWG
---------------------------------------------	---------------------------------------

Type	Order No.	Pcs./Pkt.
<b>PCV 6/2-GF-10,16</b>	<b>19 22 56 9</b>	50
<b>PCV 6/3-GF-10,16</b>	<b>19 22 57 2</b>	
<b>PCV 6/4-GF-10,16</b>	<b>19 22 58 5</b>	
<b>PCV 6/5-GF-10,16</b>	<b>19 22 59 8</b>	
<b>PCV 6/6-GF-10,16</b>	<b>19 22 60 8</b>	
<b>PCV 6/7-GF-10,16</b>	<b>19 22 61 1</b>	
<b>PCV 6/8-GF-10,16</b>	<b>19 22 62 4</b>	
<b>CP-HCC 4</b>	<b>16 00 02 7</b>	
<b>SK 10/5</b> (see COMBICON catalog )		

see description

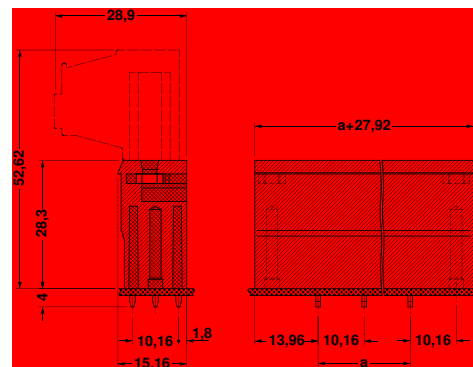
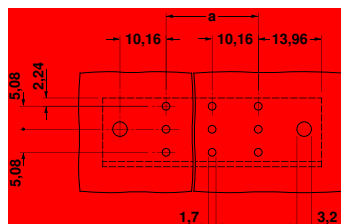
10.16

1.7

1.0 x 1.2

	I	II / 2	III / 3
630 <sup>1)</sup>	1000	1000	6
	8	8	6
	41 / -	41 / -	

<sup>1)</sup> 1000 V on printed circuit board.





## POWER COMBICON Plug-In Block for Direct Mounting, 10.16 mm Pitch

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All electronic components are pluggable and easy to maintain. The plug is not connected to the PCB, however, but vice versa.

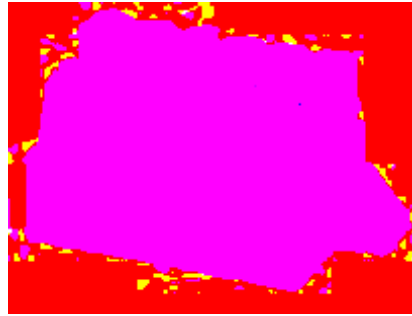
Plug-in blocks PCU 6/...-STD-10,16 with a screw connection and vertical plug-in direction have a base plate with two mounting ears for screwing onto mounting plates or into component housings. They are available with 2 to 9 positions and a 10.16 mm pitch.

The self-adhesive marker cards SK 10/5 are used for labeling (see COMBICON catalog)



# PCU 6/...-STD-10,16



## 10.16 mm Pitch



**Note:**

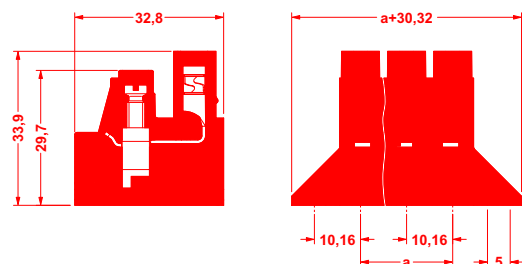
COMBICON plug connectors may only be actuated in the no-load condition. If smaller loads need to be switched for operational reasons, experimental values are available on request.

Description	No. of positions	Dim. a [mm]
<b>POWER COMBICON plug-in block,</b> 10.16 mm pitch, color: green	2	10.16
	3	20.32
	4	30.48
	5	40.64
	6	50.80
	7	60.96
	8	71.12
	9	81.28

- (1) **Coding profile**, is inserted into the recess on the plug and header, insulating material: red 
- (2) **Marker card**, with 10 pcs. 10-section marker strips, white, self-adhesive, for 100 terminal blocks
- (3) **Screwdriver**, blade: 1.0 x 4.0 x 100 mm, length: 200 mm 

Technical data	
Dimensions	
Pitch	[mm] 10.16
Hole diameter	[mm] -
Pin dimensions	[mm]x[mm] -
<b>Technical data in accordance with IEC/ DIN VDE</b>	
Insulating material group	-
Surge voltage category / contamination class	-/-
Rated voltage	[V] 1000
Rated surge voltage	[kV] 8
Nominal current / cross section	[A]/[mm <sup>2</sup> ] 41 / 6.0
Maximum load current / cross section	[A]/[mm <sup>2</sup> ] 41 / 6.0
<b>Connection capacity</b>	
Solid / stranded / conductor sizes	[mm <sup>2</sup> ]/[mm <sup>2</sup> ]/AWG 0.5 - 10.0 / 0.5 - 6.0 / 20 - 7
Stranded with ferrule without / with plastic sleeve	[mm <sup>2</sup> ] 0.5 - 6.0 / 0.5 - 6.0
<b>Multiple connection (2 conductors with same cross section)</b>	
Solid / stranded	[mm <sup>2</sup> ] 0.5 - 6.0 / 0.5 - 6.0
Stranded with ferrule with plastic sleeve	[mm <sup>2</sup> ] 0.5 - 2.5
Stranded with TWIN ferrule with plastic sleeve	[mm <sup>2</sup> ] 0.5 - 4.0
<b>Stripping length</b>	[mm] 12
<b>Internal cylindrical gauge (IEC 60 947-1)</b>	A 5
<b>Thread</b>	M 4
<b>Torque</b>	[Nm] 1.2 - 1.5
<b>Insulating material</b>	PA
Inflammability class in acc. with UL 94	V0
<b>Approval data (UL/CUL and CSA)</b>	
Nominal voltage / current / conductor sizes	UL/CUL:[V]/[A]/AWG -
	CSA:[V]/[A]/AWG -

Type	Order No.	Pcs./Pkt.
<b>PCU 6/2-STD-10,16</b>	19 22 63 7	50
<b>PCU 6/3-STD-10,16</b>	19 22 64 0	
<b>PCU 6/4-STD-10,16</b>	19 22 65 3	
<b>PCU 6/5-STD-10,16</b>	19 22 66 6	
<b>PCU 6/6-STD-10,16</b>	19 22 67 9	
<b>PCU 6/7-STD-10,16</b>	19 22 68 2	
<b>PCU 6/8-STD-10,16</b>	19 22 69 5	
<b>PCU 6/9-STD-10,16</b>	19 22 70 5	
<b>CP-HCC 4</b>	16 00 02 7	
<b>SK 10/5 (see COMBICON catalog)</b>		
<b>SZS 1,0 x 4,0</b>	12 05 06 6	10
see description		
10.16		
-		
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I		
III / 3	III / 2	II / 2
1000	1000	1000
8	8	8
41 / 6.0		
41 / 6.0		
0.5 - 10.0 / 0.5 - 6.0 / 20 - 7		
0.5 - 6.0 / 0.5 - 6.0		
0.5 - 6.0 / 0.5 - 6.0		
0.5 - 2.5		
0.5 - 4.0		
12		
A 5		
M 4		
1.2 - 1.5		
PA		
V0		
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