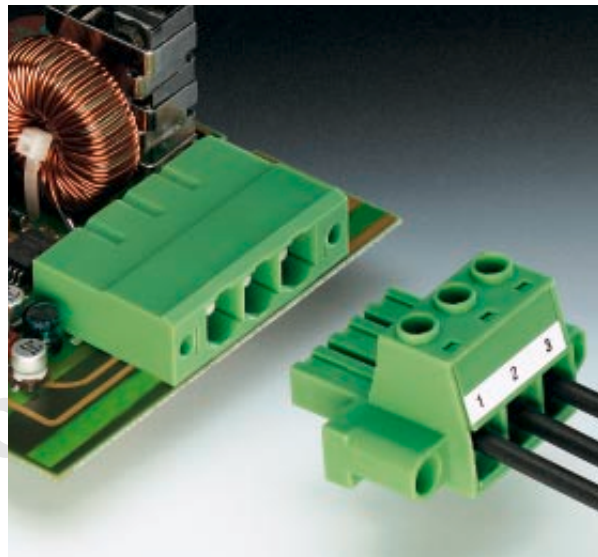


POWER COMBICON Plugs and Headers PC 6/... for Currents up to 41 A, 10.16 mm Pitch

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]
POWER COMBICON plugs, 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]/[mm²]
Maximum load current / cross section	[A]/[mm²]

Connection capacity

Solid / stranded / conductor sizes	[mm²]/[mm²]/AWG
Stranded with ferrule without / with plastic sleeve	[mm²]

Multiple connection (2 conductors with same cross section)

Solid / stranded	[mm²]
Stranded with ferrule with plastic sleeve	[mm²]
Stranded with TWIN ferrule with plastic sleeve	[mm²]

Stripping length

	[mm]
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Internal cylindrical gauge (IEC 60 947-1)

Thread

	[Nm]
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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.
PC 6/2-ST-10,16	19 13 50 7	50
PC 6/3-ST-10,16	19 13 51 0	
PC 6/4-ST-10,16	19 13 52 3	
PC 6/5-ST-10,16	19 13 53 6	
PC 6/6-ST-10,16	19 13 54 9	50
PC 6/7-ST-10,16	19 13 55 2	
PC 6/8-ST-10,16	19 13 56 5	
CP-HCC 4	16 00 02 7	100
SK 10/5 (see COMBICON catalog)		
SZS 1,0 x 4,0	12 05 06 6	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

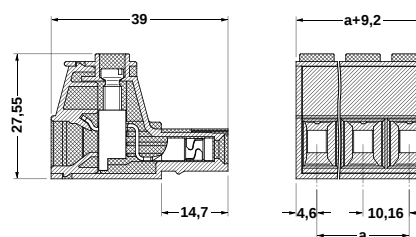
1.2 - 1.5

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]
POWER COMBICON plugs, 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]/[mm²]
Maximum load current / cross section	[A]/[mm²]

Connection capacity

Solid / stranded / conductor sizes	[mm²]/[mm²]/AWG
Stranded with ferrule without / with plastic sleeve	[mm²]

Multiple connection (2 conductors with same cross section)

Solid / stranded	[mm²]
Stranded with ferrule with plastic sleeve	[mm²]
Stranded with TWIN ferrule with plastic sleeve	[mm²]

Stripping length

	[mm]
--	------

Internal cylindrical gauge (IEC 60 947-1)

Thread

	[Nm]
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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.
PC 6/2-STF-10,16	19 13 57 8	50
PC 6/3-STF-10,16	19 13 58 1	
PC 6/4-STF-10,16	19 13 59 4	
PC 6/5-STF-10,16	19 13 60 4	
PC 6/6-STF-10,16	19 13 61 7	10
PC 6/7-STF-10,16	19 13 62 0	
PC 6/8-STF-10,16	19 13 63 3	
CP-HCC 4	16 00 02 7	100
SK 10/5 (see COMBICON catalog)		
SZS 1,0 x 4,0	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

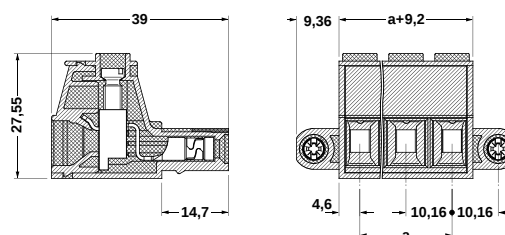
1.2 - 1.5

PA

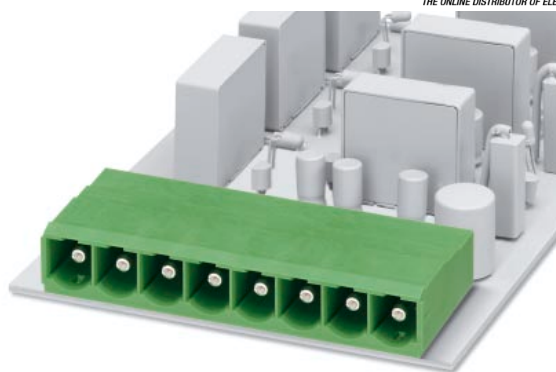
V0

600 / 41 / 20 - 8

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PC 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]
POWER COMBICON headers, 10.16 mm pitch, color: green, plug-in direction parallel to the PCB	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]/[mm²]
Maximum load current / cross section	[A]/[mm²]

Connection capacity

Solid / stranded / conductor sizes	[mm²]/[mm²]/AWG
Stranded with ferrule without / with plastic sleeve	[mm²]

Multiple connection (2 conductors with same cross section)

Solid / stranded	[mm²]
Stranded with ferrule with plastic sleeve	[mm²]
Stranded with TWIN ferrule with plastic sleeve	[mm²]

Stripping length [mm]

Internal cylindrical gauge (IEC 60 947-1)

Thread

Torque [Nm]

Insulating material

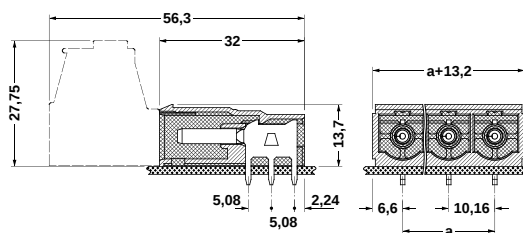
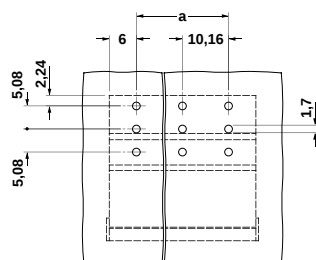
Inflammability class in acc. with UL 94

Approval data (UL/CUL and CSA)

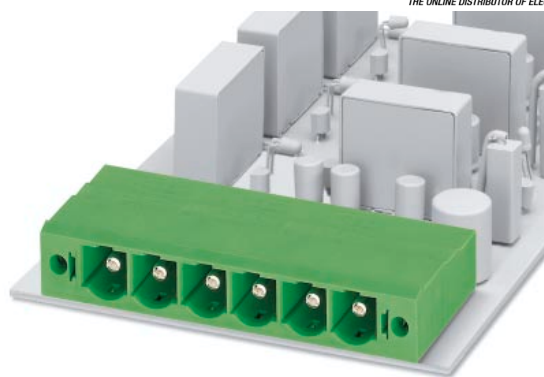
Nominal voltage / current / conductor sizes UL/CUL: [V]/[A]/AWG
CSA: [V]/[A]/AWG

Type	Order No.	Pcs./Pkt.
PC 6/2-G-10,16	19 13 64 6	50
PC 6/3-G-10,16	19 13 65 9	
PC 6/4-G-10,16	19 13 66 2	
PC 6/5-G-10,16	19 13 67 5	
PC 6/6-G-10,16	19 13 68 8	
PC 6/7-G-10,16	19 13 69 1	
PC 6/8-G-10,16	19 13 70 1	
CP-HCC 4	16 00 02 7	100
SK 10/5 (see COMBICON catalog)		
see description		
	10.16	
	1.7	
	1.0 x 1.2	
	I	
III / 3	III / 2	II / 2
630 ¹⁾	1000	1000
6	8	8
	41 / -	
	41 / -	
	-	
	-	
	-	
	-	
	-	
	PA	
	V0	
	300 / 41 / -	
	-	

¹⁾ 1000 V on printed circuit board.



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]
POWER COMBICON headers, 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]/[mm²]
Maximum load current / cross section	[A]/[mm²]

Connection capacity

Solid / stranded / conductor sizes	[mm²]/[mm²]/AWG
Stranded with ferrule without / with plastic sleeve	[mm²]

Multiple connection (2 conductors with same cross section)

Solid / stranded	[mm²]
Stranded with ferrule with plastic sleeve	[mm²]
Stranded with TWIN ferrule with plastic sleeve	[mm²]

Stripping length [mm]

Internal cylindrical gauge (IEC 60 947-1)

Thread

Torque [Nm]

Insulating material

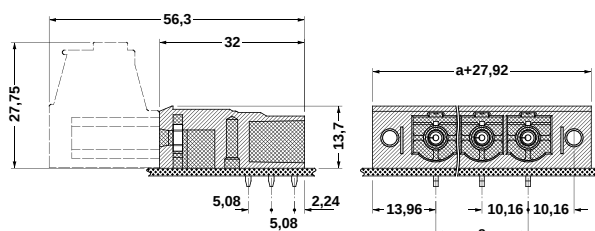
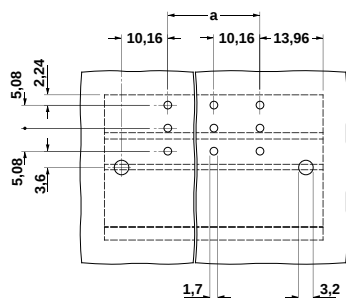
Inflammability class in acc. with UL 94

Approval data (UL/CUL and CSA)

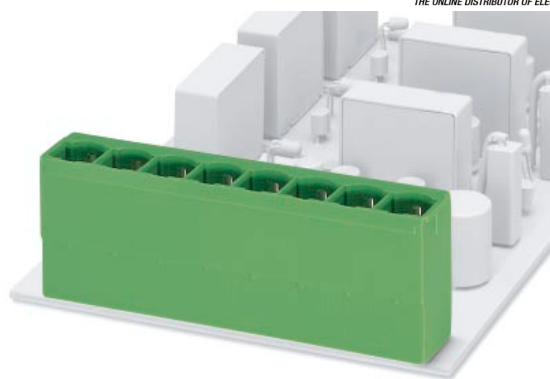
Nominal voltage / current / conductor sizes UL/CUL: [V]/[A]/AWG
CSA: [V]/[A]/AWG

¹⁾ 1000 V on printed circuit board.

Type	Order No.	Pcs./Pkt.
PC 6/2-GF-10,16	19 13 71 4	50
PC 6/3-GF-10,16	19 13 72 7	
PC 6/4-GF-10,16	19 13 73 0	
PC 6/5-GF-10,16	19 13 74 3	
PC 6/6-GF-10,16	19 13 75 6	
PC 6/7-GF-10,16	19 13 76 9	100
PC 6/8-GF-10,16	19 13 77 2	
CP-HCC 4	16 00 02 7	100
SK 10/5 (see COMBICON catalog)		
see description		
10.16		
1.7		
1.0 x 1.2		
	I	
III / 3	III / 2	II / 2
630 ¹⁾	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]
POWER COMBICON headers, 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]
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]/[mm²]
Maximum load current / cross section	[A]/[mm²]

Connection capacity

Solid / stranded / conductor sizes	[mm²]/[mm²]/AWG
Stranded with ferrule without / with plastic sleeve	[mm²]

Multiple connection (2 conductors with same cross section)

Solid / stranded	[mm²]
Stranded with ferrule with plastic sleeve	[mm²]
Stranded with TWIN ferrule with plastic sleeve	[mm²]

Stripping length	[mm]
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Internal cylindrical gauge (IEC 60 947-1)

Thread	
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Torque	[Nm]
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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
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¹⁾ 1000 V on printed circuit board.

Type	Order No.	Pcs./Pkt.
PCV 6/2-G-10,16	19 22 48 8	50
PCV 6/3-G-10,16	19 22 49 1	
PCV 6/4-G-10,16	19 22 50 1	
PCV 6/5-G-10,16	19 22 51 4	
PCV 6/6-G-10,16	19 22 52 7	
PCV 6/7-G-10,16	19 22 53 0	
PCV 6/8-G-10,16	19 22 54 3	
PCV 6/9-G-10,16	19 22 55 6	
CP-HCC 4	16 00 02 7	100
SK 10/5 (see COMBICON catalog)		

see description

10.16

1.7

1.0 x 1.2

	I	II / 2
III / 3	III / 2	1000
630 ¹⁾	1000	1000
6	8	8
	41 / —	
	41 / —	

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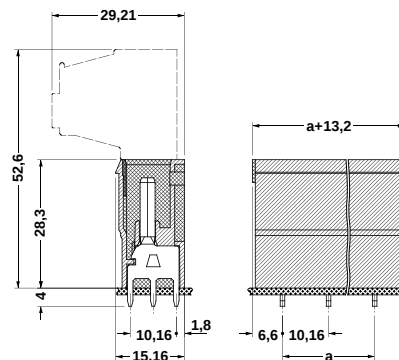
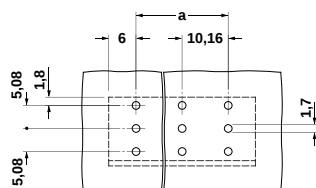
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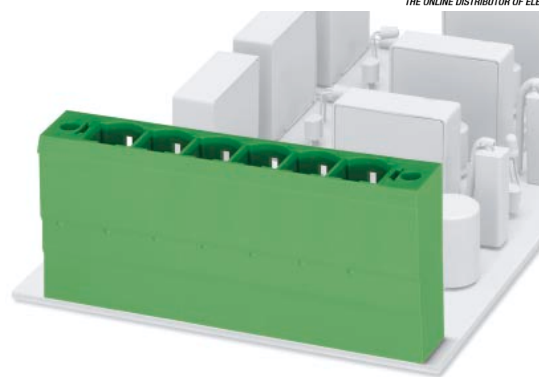
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PCV 6/...-GF-10,16 with Threaded Flange 10.16 mm Pitch



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]
POWER COMBICON headers, 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]/[mm²]
Maximum load current / cross section	[A]/[mm²]

Connection capacity

Solid / stranded / conductor sizes	[mm²]/[mm²]/AWG
Stranded with ferrule without / with plastic sleeve	[mm²]

Multiple connection (2 conductors with same cross section)

Solid / stranded	[mm²]
Stranded with ferrule with plastic sleeve	[mm²]
Stranded with TWIN ferrule with plastic sleeve	[mm²]

Stripping length [mm]

Internal cylindrical gauge (IEC 60 947-1)

Thread

Torque [Nm]

Insulating material

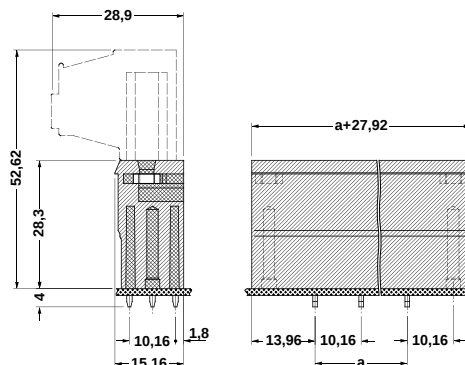
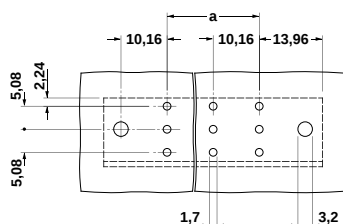
Inflammability class in acc. with UL 94

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.
PCV 6/2-GF-10,16	19 22 56 9	50
PCV 6/3-GF-10,16	19 22 57 2	
PCV 6/4-GF-10,16	19 22 58 5	
PCV 6/5-GF-10,16	19 22 59 8	
PCV 6/6-GF-10,16	19 22 60 8	
PCV 6/7-GF-10,16	19 22 61 1	100
PCV 6/8-GF-10,16	19 22 62 4	
CP-HCC 4	16 00 02 7	
SK 10/5 (see COMBICON catalog)		
see description		
10.16		
1.7		
1.0 x 1.2		
III / 3	I	
630 ¹⁾	III / 2	II / 2
6	1000	1000
	8	8
	41 / -	
	41 / -	
	-	
	-	
	-	
	-	
	-	
	-	
	-	
	-	
	PA	
	V0	
300 / 41 / -		
-		

¹⁾ 1000 V on printed circuit board.



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

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]
POWER COMBICON plug-in block, 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]
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]/[mm²]
Maximum load current / cross section	[A]/[mm²]

Connection capacity

Solid / stranded / conductor sizes	[mm²]/[mm²]/AWG
Stranded with ferrule without / with plastic sleeve	[mm²]

Multiple connection (2 conductors with same cross section)

Solid / stranded	[mm²]
Stranded with ferrule with plastic sleeve	[mm²]
Stranded with TWIN ferrule with plastic sleeve	[mm²]

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.
PCU 6/2-STD-10,16	19 22 63 7	50
PCU 6/3-STD-10,16	19 22 64 0	
PCU 6/4-STD-10,16	19 22 65 3	
PCU 6/5-STD-10,16	19 22 66 6	50
PCU 6/6-STD-10,16	19 22 67 9	
PCU 6/7-STD-10,16	19 22 68 2	
PCU 6/8-STD-10,16	19 22 69 5	50
PCU 6/9-STD-10,16	19 22 70 5	

CP-HCC 4 16 00 02 7 100

SK 10/5 (see COMBICON catalog)

SZS 1,0 x 4,0 12 05 06 6 10

see description

10.16

—

—

III / 3	I	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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