

POWER COMBICON

Feed-through headers with a 10.16 mm Pitch

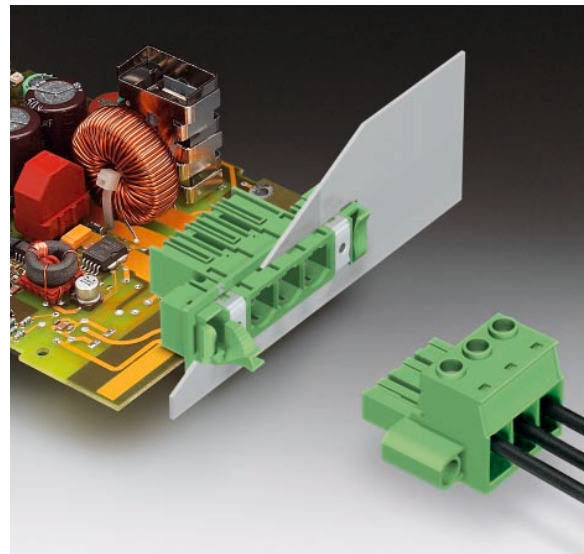
DFK-PC(V) 6-16/...-G(F)(U)-(SH)-10,16

The DFK-PC 16 feed-through plug connector is an uncomplicated method of conducting a current of 76 A and a voltage of 600 V UL with a connection cross section of 16 mm² from inside the device to the outside and vice versa.

And this is how you make this seamless device connection: Just insert DFK-PC 16 into the opening in the housing and fix it in place using the easy-to-use snap-lock mechanism. The header version for direct soldering to the PCB is available with 2 to 9 positions and is suitable for the PC 6 plugs (with a current carrying capacity of 41 A) and the PC 16 plugs (current carrying capacity 76 A).

The versions with threaded flange "-GF/-GFU" have an integrated shroud, which carries the shielding function to the metal housing to comply with EMC regulations. If the housing of the device is not made of metal, it is possible with all "SH variants" to take the EMC shield function either directly onto the PCB or with a 6.3/2.8 x 0.8 mm slip-on connection to the next protection point.

It can be secured inside the housing using either the snap-lock mechanism or the conventional screw fixing. Both options are included with the product. If the screw option is chosen, screw set DFK-PC 16-SS should be used.



The COMBICON search engine with CAD downloading



COMBICON Select – the printed circuit board connection software supports your workflow from the PCB and housing layout to the ordering process with:

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- Universal Internet aided engineering with extensive CAD downloading
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easy-to-use
snap-lock mechanism

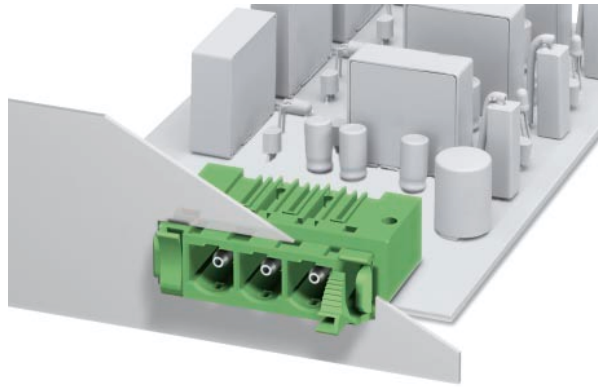


screw fixing

POWER COMBICON

Feed-through headers, DFK-PC 6-16/...-G-10,16

10.16 mm pitch



Description	No. of pos.	Dim. a [mm]
POWER COMBICON feed-through headers, pitch 10.16 mm, 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
	9	81.28

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



(2) **Coding pin**, serves to ensure correct polarization on the PCB during manual mounting



(3) **Screw set** for securing the header to the device wall, consisting of DIN ISO 70 49 screw ST 2,9 x 9,5, only necessary if the enclosed screw fixing is used

(4) **Screwdriver**,

a) to actuate the screw fixing
b) facilitates actuating the snap-lock mechanism



(5) **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	[A]
Maximum load current	[A]

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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Type	Order No.	Pcs./Pkt.
DFK-PC 6-16/ 2-G-10,16	1701456	50
DFK-PC 6-16/ 3-G-10,16	1701469	
DFK-PC 6-16/ 4-G-10,16	1701472	
DFK-PC 6-16/ 5-G-10,16	1701485	50
DFK-PC 6-16/ 6-G-10,16	1701498	
DFK-PC 6-16/ 7-G-10,16	1701508	
DFK-PC 6-16/ 8-G-10,16	1701511	20
DFK-PC 6-16/ 9-G-10,16	1701524	
CP-HCC 4	1600027	50
CS-IPC 16/6	1970016	50
DFK-PC16-SS	1705449	20
SZK PH 1	1205150	10
SZS 0,6 x 2,5	1205040	10
SK 10/5 (see COMBICON catalog)		

see description

10.16

1.7

0.8 x 1.2

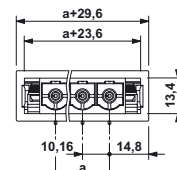
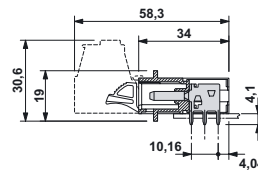
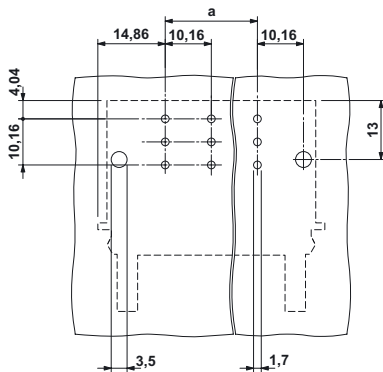
	I	
III / 3	III / 2	II / 2
1000	1000	1000
8	8	6
	41 ¹⁾ / 76 ¹⁾	
	41 ¹⁾ / 76 ¹⁾	

PA

V0

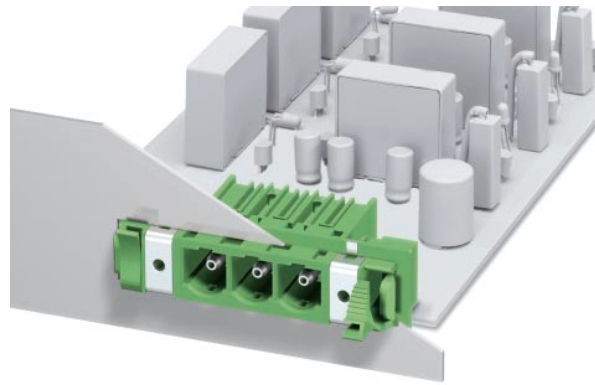
applied for

¹⁾ 41 A with PC 6/... plug, 76 A with PC 16/... plug
Observe derating curve



POWER COMBICON

Feed-through headers, DFK-PC 6-16/...-GF-10,16, 10.16 mm pitch



Description	No. of pos.	Dim. a [mm]
POWER COMBICON feed-through headers, pitch 10.16 mm, color: green, plug-in direction parallel to the PCB, with threaded flange and integrated shield connection to the housing of the device	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 groove
on the plug and header,
red insulating material



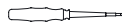
(2) **Coding pin**, serves to ensure correct polarization on
the PCB during manual mounting



(3) **Screw set** for securing the header to the device wall, consisting of
DIN ISO 70 49 screw ST 2,9 x 9,5, only necessary if the enclosed screw
fixing is used

(4) **Screwdriver**,

a) to actuate the screw fixing
b) facilitates actuating the snap-lock mechanism



(5) **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	[A]
Maximum load current	[A]

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.
DFK-PC 6-16/ 2-GF-10,16	1701537	50
DFK-PC 6-16/ 3-GF-10,16	1701540	
DFK-PC 6-16/ 4-GF-10,16	1701553	
DFK-PC 6-16/ 5-GF-10,16	1701566	50
DFK-PC 6-16/ 6-GF-10,16	1701579	
DFK-PC 6-16/ 7-GF-10,16	1701582	
DFK-PC 6-16/ 8-GF-10,16	1701595	20
DFK-PC 6-16/ 9-GF-10,16	1701605	
CP-HCC 4	1600027	50
CS-IPC 16/6	1970016	50
DFK-PC16-SS	1705449	20
SZK PH 1	1205150	10
SZS 0,6 x 2,5	1205040	10
SK 10/5 (see COMBICON catalog)		

see description

10.16

1.7

0.8 x 1.2

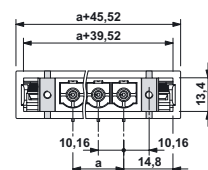
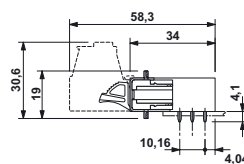
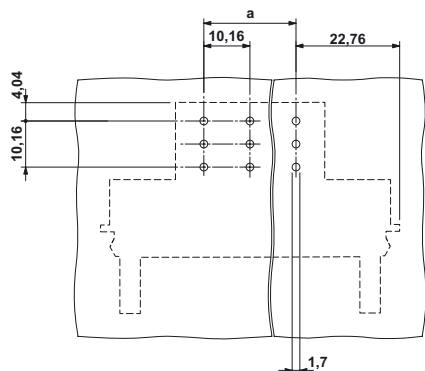
	I	
III / 3	III / 2	II / 2
1000	1000	1000
8	8	6
	41 ¹⁾ / 76 ¹⁾	
	41 ¹⁾ / 76 ¹⁾	

PA

V0

applied for

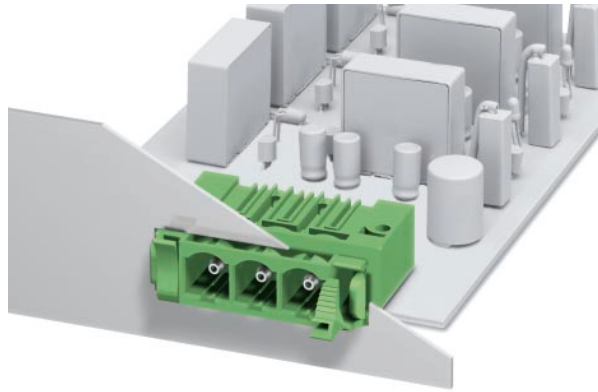
¹⁾ 41 A with PC 6/... plug, 76 A with PC 16/... plug
Observe derating curve



POWER COMBICON

Feed-through headers, DFK-PC 6-16/...-GU-10,16

10.16 mm pitch



Description	No. of pos.	Dim. a [mm]
POWER COMBICON feed-through headers, pitch 10.16 mm, color: green, plug-in direction parallel to the PCB, solder-in direction 180° reversed	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 groove on the plug and header, red insulating material
- (2) **Coding pin**, serves to ensure correct polarization on the PCB during manual mounting
- (3) **Screw set** for securing the header to the device wall, consisting of DIN ISO 70 49 screw ST 2,9 x 9,5, only necessary if the enclosed screw fixing is used
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a) to actuate the screw fixing
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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	[A]
Maximum load current	[A]

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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Type	Order No.	Pcs./Pkt.
DFK-PC 6-16/ 2-GU-10,16	1701618	50
DFK-PC 6-16/ 3-GU-10,16	1701621	
DFK-PC 6-16/ 4-GU-10,16	1701634	
DFK-PC 6-16/ 5-GU-10,16	1701647	50
DFK-PC 6-16/ 6-GU-10,16	1701650	
DFK-PC 6-16/ 7-GU-10,16	1701663	
DFK-PC 6-16/ 8-GU-10,16	1701676	20
DFK-PC 6-16/ 9-GU-10,16	1701689	
CP-HCC 4	1600027	50
CS-IPC 16/6	1970016	50
DFK-PC16-SS	1705449	20
SZK PH 1 SZS 0,6 x 2,5	1205150 1205040	10 10
SK 10/5 (see COMBICON catalog)		

see description

10.16

1.7

0.8 x 1.2

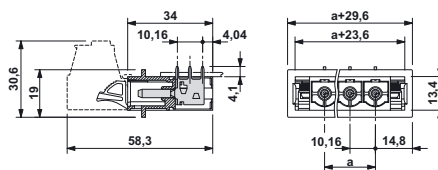
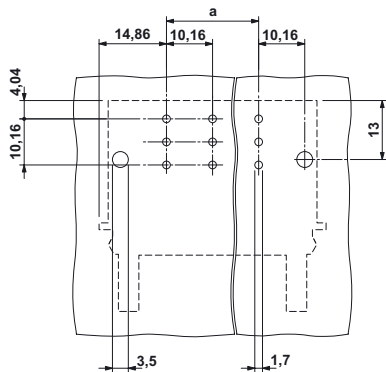
	I	
III / 3	III / 2	II / 2
1000	1000	1000
8	8	6
	41 ¹⁾ / 76 ¹⁾	
	41 ¹⁾ / 76 ¹⁾	

PA

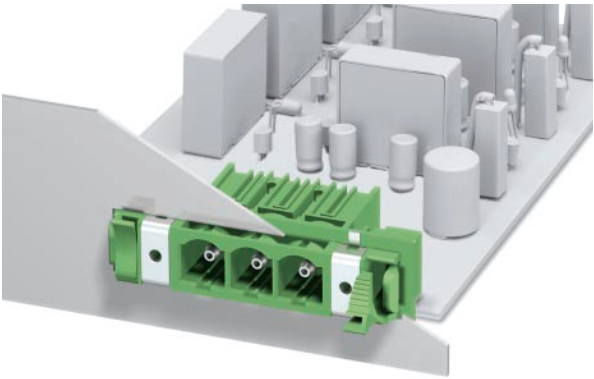
V0

applied for

¹⁾ 41 A with PC 6/... plug, 76 A with PC 16/... plug
Observe derating curve



POWER COMBICON
Feed-through headers,
DFK-PC 6-16/...-GFU-10,16
10.16 mm pitch



Description	No. of pos.	Dim. a [mm]
POWER COMBICON feed-through headers, pitch 10.16 mm, color: green, solder-in direction 180° reversed, with threaded flange and integrated shield connection to the housing of the device, 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
	9	81.28

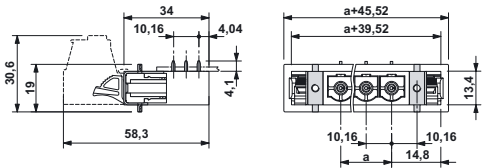
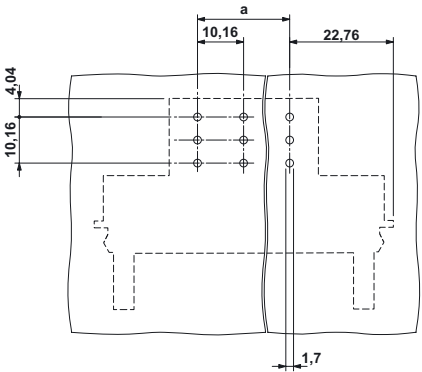
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10-section marker strips, white, self-adhesive, for 100 terminal blocks

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	[A]
Maximum load current	[A]
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.
DFK-PC 6-16/ 2-GFU-10,16	1701692	50
DFK-PC 6-16/ 3-GFU-10,16	1701702	
DFK-PC 6-16/ 4-GFU-10,16	1701715	
DFK-PC 6-16/ 5-GFU-10,16	1701728	50
DFK-PC 6-16/ 6-GFU-10,16	1701731	
DFK-PC 6-16/ 7-GFU-10,16	1701744	
DFK-PC 6-16/ 8-GFU-10,16	1701757	20
DFK-PC 6-16/ 9-GFU-10,16	1701760	
CP-HCC 4	1600027	50
CS-IPC 16/6	1970016	50
DFK-PC16-SS	1705449	20
SZK PH 1 SZS 0,6 x 2,5	1205150 1205040	10 10
SK 10/5 (see COMBICON catalog)		

see description		
10.16		
1.7		
0.8 x 1.2		
III / 3	I	II / 2
1000	1000	1000
8	8	6
41 ¹⁾ / 76 ¹⁾		
41 ¹⁾ / 76 ¹⁾		
PA		
V0		
applied for		
—		

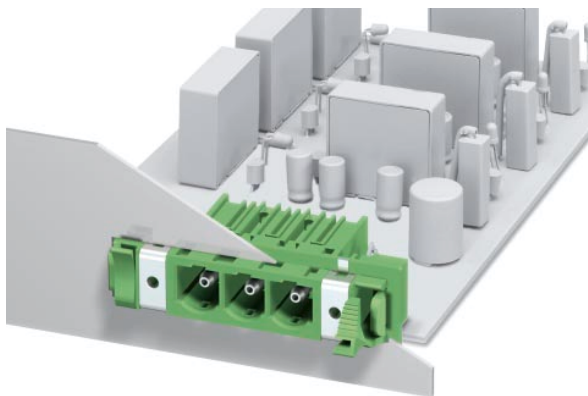
¹⁾ 41 A with PC 6/... plug, 76 A with PC 16/... plug
Observe derating curve



POWER COMBICON

Feed-through headers, DFK-PC 6-16-GF-SH-10,16

10.16 mm pitch



Description	No. of pos.	Dim. a [mm]
POWER COMBICON feed-through headers, pitch 10.16 mm, color: green, with threaded flange and integrated shield connection to the PCB, 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
	9	81.28

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



(2) **Coding pin**, serves to ensure correct polarization on the PCB during manual mounting



(3) **Screw set** for securing the header to the device wall, consisting of DIN ISO 70 49 screw ST 2,9 x 9,5, only necessary if the enclosed screw fixing is used

(4) **Screwdriver**,

a) to actuate the screw fixing

b) facilitates actuating the snap-lock mechanism



(5) **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	[A]
Maximum load current	[A]

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.
DFK-PC 6-16/2-GF-SH-10,16	1701935	50
DFK-PC 6-16/3-GF-SH-10,16	1701948	
DFK-PC 6-16/4-GF-SH-10,16	1701951	
DFK-PC 6-16/5-GF-SH-10,16	1701964	
DFK-PC 6-16/6-GF-SH-10,16	1701977	
DFK-PC 6-16/7-GF-SH-10,16	1701980	
DFK-PC 6-16/8-GF-SH-10,16	1701993	
DFK-PC 6-16/9-GF-SH-10,16	1702002	
CP-HCC 4	1600027	50
CS-IPC 16/6	1970016	50
DFK-PC16-SS	1705449	20
SZK PH 1	1205150	10
SZS 0,6 x 2,5	1205040	10
SK 10/5 (see COMBICON catalog)		

see description

10.16

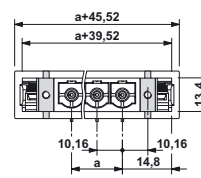
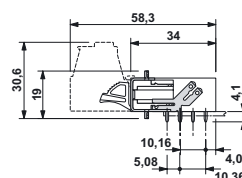
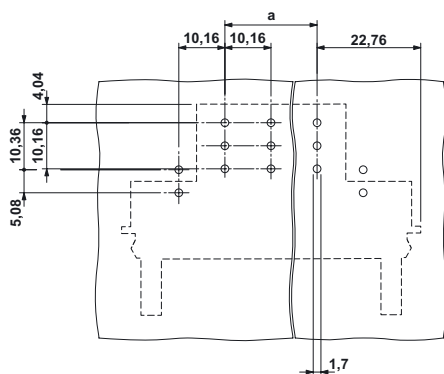
1.7

0.8 x 1.2

	I	
III / 3	III / 2	II / 2
1000	1000	1000
8	8	6
	41 ¹⁾ / 76 ¹⁾	
	41 ¹⁾ / 76 ¹⁾	
	PA	
	V0	

applied for

¹⁾ 41 A with PC 6/... plug, 76 A with PC 16/... plug
Observe derating curve

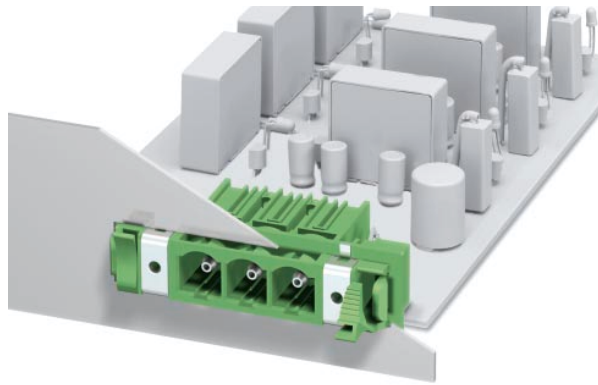


POWER COMBICON

Feed-through headers

DFK-PC 6-16/...-GFU-SH-10,16

10.16 mm pitch



Description	No. of pos.	Dim. a [mm]
POWER COMBICON feed-through headers, pitch 10.16 mm, color: green, solder-in direction 180° reversed, with threaded flange and integrated shield connection to the PCB, 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
	9	81.28

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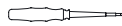


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a) to actuate the screw fixing

b) facilitates actuating the snap-lock mechanism



(5) **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 [A]

Maximum load current [A]

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.
DFK-PC 6-16/2-GFU-SH-10,16	1702015	50
DFK-PC 6-16/3-GFU-SH-10,16	1702028	
DFK-PC 6-16/4-GFU-SH-10,16	1702031	
DFK-PC 6-16/5-GFU-SH-10,16	1702044	50
DFK-PC 6-16/6-GFU-SH-10,16	1702057	
DFK-PC 6-16/7-GFU-SH-10,16	1702060	
DFK-PC 6-16/8-GFU-SH-10,16	1702073	20
DFK-PC 6-16/9-GFU-SH-10,16	1702086	
CP-HCC 4	1600027	50
CS-IPC 16/6	1970016	50
DFK-PC16-SS	1705449	20
SZK PH 1	1205150	10
SZS 0,6 x 2,5	1205040	10
SK 10/5 (see COMBICON catalog)		

see description

10.16

1.7

0.8 x 1.2

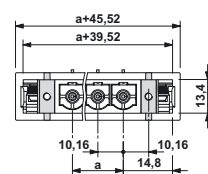
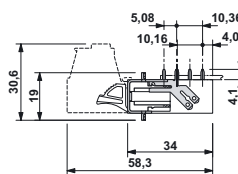
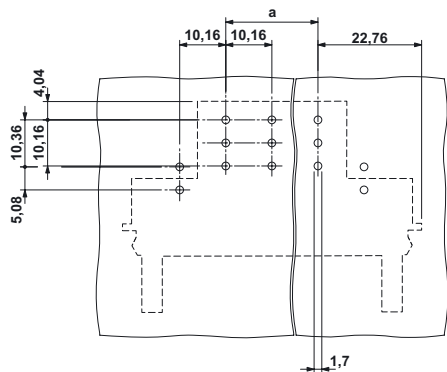
	I	
III / 3	III / 2	II / 2
1000	1000	1000
8	8	6
	41 ¹⁾ / 76 ¹⁾	
	41 ¹⁾ / 76 ¹⁾	

PA

V0

applied for

¹⁾ 41 A with PC 6/... plug, 76 A with PC 16/... plug
Observe derating curve

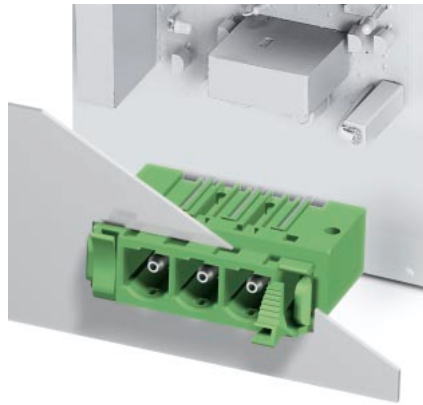


POWER COMBICON

Feed-through headers

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

10.16 mm pitch



Description	No. of pos.	Dim. a [mm]
POWER COMBICON feed-through headers, pitch 10.16 mm, 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 groove on the plug and header, red insulating material



(2) **Coding pin**, serves to ensure correct polarization on the PCB during manual mounting



(3) **Screw set** for securing the header to the device wall, consisting of DIN ISO 70 49 screw ST 2,9 x 9,5, only necessary if the enclosed screw fixing is used

(4) **Screwdriver**,

a) to actuate the screw fixing

b) facilitates actuating the snap-lock mechanism



(5) **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	[A]
Maximum load current	[A]

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.
DFK-PCV 6-16/ 2-G-10,16	1702099	50
DFK-PCV 6-16/ 3-G-10,16	1702109	
DFK-PCV 6-16/ 4-G-10,16	1702112	
DFK-PCV 6-16/ 5-G-10,16	1702125	50
DFK-PCV 6-16/ 6-G-10,16	1702138	
DFK-PCV 6-16/ 7-G-10,16	1702141	
DFK-PCV 6-16/ 8-G-10,16	1702154	20
DFK-PCV 6-16/ 9-G-10,16	1702167	
CP-HCC 4	1600027	50
CS-IPC 16/6	1970016	50
DFK-PC16-SS	1705449	20
SZK PH 1	1205150	10
SZS 0,6 x 2,5	1205040	10
SK 10/5 (see COMBICON catalog)		

see description

10.16

1.7

0.8 x 1.2

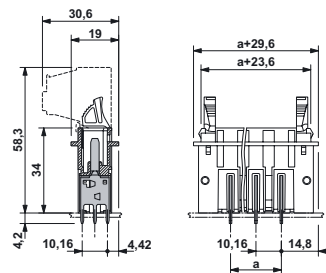
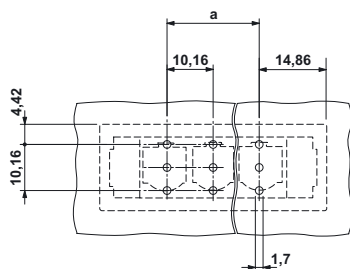
	I	
III / 3	III / 2	II / 2
1000	1000	1000
8	8	6
	41 ¹⁾ / 76 ¹⁾	
	41 ¹⁾ / 76 ¹⁾	

PA

V0

applied for

¹⁾ 41 A with PC 6/... plug, 76 A with PC 16/... plug
Observe derating curve

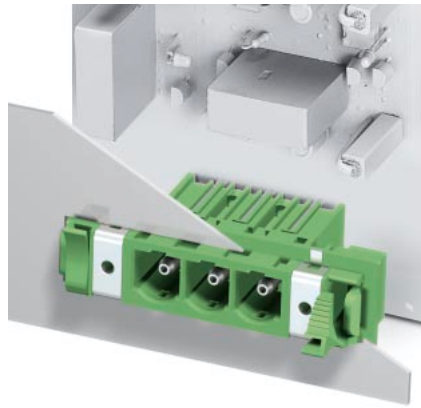


POWER COMBICON

Feed-through headers

DFK-PCV 6-16/...-GF-10,16

10.16 mm pitch



Description	No. of pos.	Dim. a [mm]
POWER COMBICON feed-through headers, pitch 10.16 mm, color: green, plug-in direction vertical to the PCB, with threaded flange and integrated shield connection to the housing of the device	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 groove on the plug and header, red insulating material



(2) **Coding pin**, serves to ensure correct polarization on the PCB during manual mounting



(3) **Screw set** for securing the header to the device wall, consisting of DIN ISO 70 49 screw ST 2,9 x 9,5, only necessary if the enclosed screw fixing is used

(4) **Screwdriver**,

a) to actuate the screw fixing

b) facilitates actuating the snap-lock mechanism



(5) **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	[A]
Maximum load current	[A]

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.
DFK-PCV 6-16/ 2-GF-10,16	1702251	50
DFK-PCV 6-16/ 3-GF-10,16	1702264	
DFK-PCV 6-16/ 4-GF-10,16	1702277	
DFK-PCV 6-16/ 5-GF-10,16	1702280	50
DFK-PCV 6-16/ 6-GF-10,16	1702293	
DFK-PCV 6-16/ 7-GF-10,16	1702303	
DFK-PCV 6-16/ 8-GF-10,16	1702316	20
DFK-PCV 6-16/ 9-GF-10,16	1702329	
CP-HCC 4	1600027	50
CS-IPC 16/6	1970016	50
DFK-PC16-SS	1705449	20
SZK PH 1	1205150	10
SZS 0,6 x 2,5	1205040	10
SK 10/5 (see COMBICON catalog)		

see description

10.16

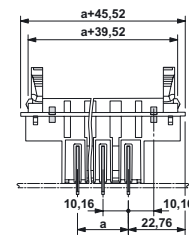
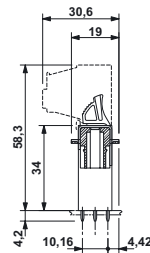
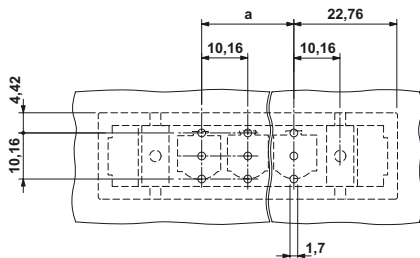
1.7

0.8 x 1.2

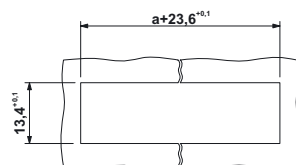
	I	
III / 3	III / 2	II / 2
1000	1000	1000
8	8	6
	41 ¹⁾ / 76 ¹⁾	
	41 ¹⁾ / 76 ¹⁾	
	PA	
	V0	

applied for

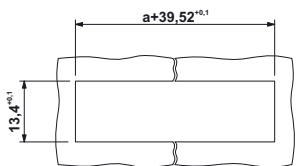
¹⁾ 41 A with PC 6/... plug, 76 A with PC 16/... plug
Observe derating curve



Sheet metal cutout for snap-on

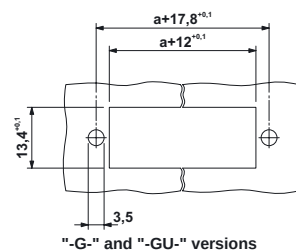


"-G-" and "-GU-" versions

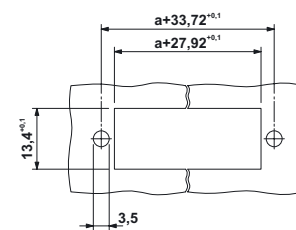


"-GF-" and "-GFU-" versions

Sheet metal cutout for screw connection



"-G-" and "-GU-" versions



"-GF-" and "-GFU-" versions

Plug: DFK-PC(V) 6-16/...-G(F)(U)-(SH)-10,16
Header: PC 16/...-ST(F)-(SH)-10,16
Conductor cross section 16 mm²

