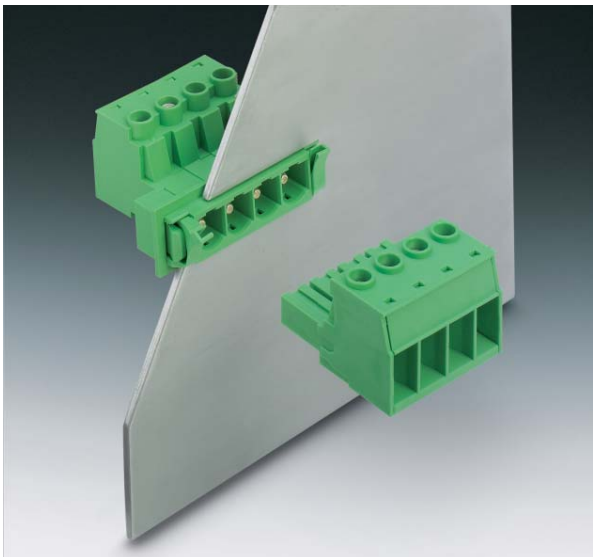
POWER COMBICON feed-through plugs 10.16 mm pitch DFK-PC 16/...-ST(F)-10,16

If a 16 mm^2 conductor is used, the new feed-through plug connector offers the possibility to transfer a current of 76 A from inside the device to outside and vice-versa. Just insert DFK-PC 16 into the opening in the housing and fix it in place using the easy-to-use snap-lock mechanism, without the need for additional tools.
This version is designed in such a way that there is a screw connection on the device inside to guide cables from outside the device to the inside (or vice-versa).
In combination with the standard PC 16 plugs, a cable-cable feed-through fit in the device housing can be realized for 2 to 9 positions.
In the STF versions, the shielding function can be guided onto or through the housing wall. The fastening flanges offer vibration-proof connection.
The feed-through plug connector is designed for 1.0 to 3.0 mm panel thickness.



Note:
In compliance with DIN EN 61984, COMBICON plug connectors come without switching capacity. During designated use, they must not be plugged in or disconnected when carrying voltage or under load.

Fast snap-lock mechanism

Screw fastening

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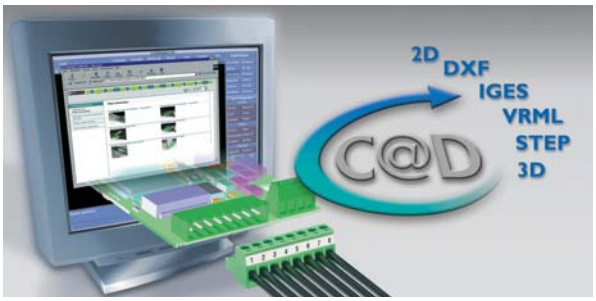

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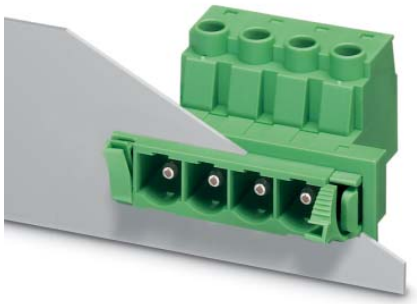
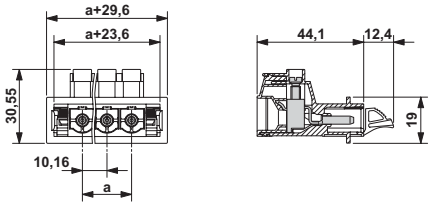
POWER COMBICON
Feed-through plugs
DFK-PC 16/...-ST-10,16
10.16 mm Pitch



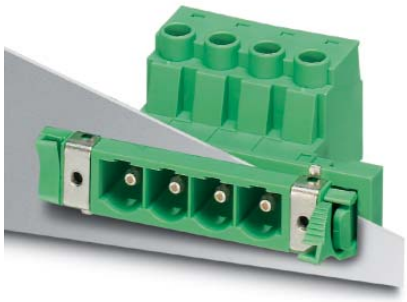
Description	No. of pos.	Dim. a [mm]	Type	Order No.	Pcs./Pkt.
POWER COMBICON plugs,					
10.16 mm pitch, color: green	2	10.16	**DFK-PC 16/ 2-ST-10,16**	**1703373**	50
	3	20.32	**DFK-PC 16/ 3-ST-10,16**	**1703386**	50
	4	30.48	**DFK-PC 16/ 4-ST-10,16**	**1703399**	50
	5	40.64	**DFK-PC 16/ 5-ST-10,16**	**1703409**	50
	6	50.80	**DFK-PC 16/ 6-ST-10,16**	**1703412**	50
	7	60.96	**DFK-PC 16/ 7-ST-10,16**	**1703425**	50
	8	71.12	**DFK-PC 16/ 8-ST-10,16**	**1703438**	50
	9	81.28	**DFK-PC 16/ 9-ST-10,16**	**1703441**	50
Keying profile, is inserted into the slot on the plug and header, red insulating material			**CP-HCC 4**	**1600027**	50
Screws, (DIN ISO 7049 screw ST 2,9 x 9,5), for fixing feed-through terminal blocks on the housing wall			**DFK-PC 16-SS**	**1705449**	20
Screwdriver, to actuate the terminal screws			**SZS 1,0 x 4,0**	**1205066**	10
Marker card, with 10 pcs., 10-section marker strips, white, self-adhesive, for 100 terminal blocks			**SK 10/5** (see COMBICON catalog)		
Crimp pliers, for ferrules of up to 16 mm^2			**CRIMPFOX 16 S**	**1207983**	1

Technical data				
Dimensions		see description		
Pitch	[mm]	10.16		
Technical data in accordance with IEC/ DIN VDE				
Insulating material group	–	I		
Surge voltage category / contamination class	– / –	III / 3	III / 2	II / 2
Rated voltage	[V]	1000	1000	1000
Rated surge voltage	[kV]	8	8	6
Nominal current / cross section	[A] / [mm^2]	57 [1]) / 10		
Maximum load current / cross section	[A] / [mm^2]	76 [1]) / 16		
Connection capacity				
Solid / stranded / conductor sizes	[mm^2] / [mm^2] / AWG	0.75 - 16 / 0.75 - 16 / 18 - 6		
Stranded with ferrule without / with plastic sleeve	[mm^2]	0,5 - 16 [2]) / 0,5 - 16 [2])		
Multiple connection (2 conductors with same cross section)				
Solid / stranded	[mm^2]	0.75 - 6 / 0.75 - 6		
Stranded with ferrules without plastic sleeve	[mm^2]	0.5 - 4		
Stranded with TWIN ferrule with plastic sleeve	[mm^2]	0.5 - 6		
Stripping length	[mm]	14		
Internal cylindrical gage (IEC 60947-1)	–	A6		
Screw thread	–	M4		
Tightening torque	[Nm]	1.5 - 1.7		
Insulation material		PA		
Inflammability class acc. to UL 94		V0		
Approval data (UL/CUL and CSA)				
Usegroup B	[V] / [A] / AWG	600 / 55 / 20 - 6		
Usegroup C	[V] / [A] / AWG	600 / 55 / 20 - 6		
Usegroup D	[V] / [A] / AWG	on request		

[1]) Observe derating curve
[2]) Only in connection with CRIMPFOX 16 S



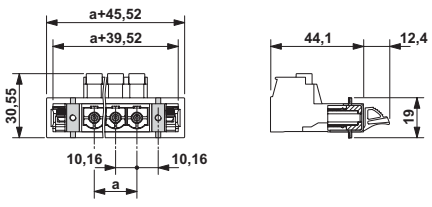
POWER COMBICON
Feed-through plugs
DFK-PC 16/...-STF-10,16
10.16 mm Pitch



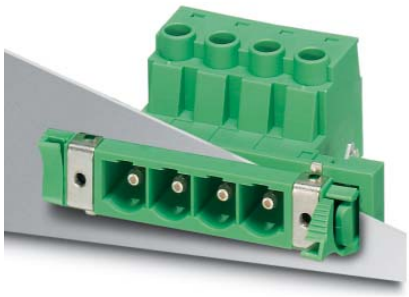
Description	No. of pos.	Dim. a [mm]	Type	Order No.	Pcs./Pkt.
POWER COMBICON feed-throuhg plugs,					
10.16 mm pitch, color: green,	2	10.16	**DFK-PC 16/ 2-STF-10,16**	**1703454**	50
with screw flange	3	20.32	**DFK-PC 16/ 3-STF-10,16**	**1703467**	50
	4	30.48	**DFK-PC 16/ 4-STF-10,16**	**1703470**	50
	5	40.64	**DFK-PC 16/ 5-STF-10,16**	**1703483**	50
	6	50.80	**DFK-PC 16/ 6-STF-10,16**	**1703496**	50
	7	60.96	**DFK-PC 16/ 7-STF-10,16**	**1703506**	50
	8	71.12	**DFK-PC 16/ 8-STF-10,16**	**1703519**	50
	9	81.28	**DFK-PC 16/ 9-STF-10,16**	**1703522**	50
Keying profile, is inserted into the slot on the plug and header, red insulating material			**CP-HCC 4**	**1600027**	50
Screws, (DIN ISO 7049 screw ST 2,9 x 9,5), for fixing feed-through terminal blocks on the housing wall			**DFK-PC 16-SS**	**1705449**	20
Screwdriver, to actuate the terminal screws			**SZS 1,0 x 4,0**	**1205066**	10
Marker card, with 10 pcs., 10-section marker strips, white, self-adhesive, for 100 terminal blocks			**SK 10/5** (see COMBICON catalog)		
Crimp pliers, for ferrules of up to 16 mm^2			**CRIMPFOX 16 S**	**1207983**	1

Technical data					
Dimensions		see description			
Pitch	[mm]	10.16			
Technical data in accordance with IEC/ DIN VDE					
Insulating material group	–	I			
Surge voltage category / contamination class	– / –	III / 3	III / 2	II / 2	
Rated voltage	[V]	1000	1000	1000	
Rated surge voltage	[kV]	8	8	6	
Nominal current / cross section	[A] / [mm^2]	57 [1]) / 10			
Maximum load current / cross section	[A] / [mm^2]	76 [1]) / 16			
Connection capacity					
Solid / stranded / conductor sizes	[mm^2] / [mm^2] / AWG	0.75 - 16 / 0.75 - 16 / 18 - 6			
Stranded with ferrule without / with plastic sleeve	[mm^2]	0,5 - 16 [2]) / 0,5 - 16 [2])			
Multiple connection (2 conductors with same cross section)					
Solid / stranded	[mm^2]	0.75 - 6 / 0.75 - 6			
Stranded with ferrules without plastic sleeve	[mm^2]	0.5 - 4			
Stranded with TWIN ferrule with plastic sleeve	[mm^2]	0.5 - 6			
Stripping length	[mm]	14			
Internal cylindrical gage (IEC 60947-1)	–	A6			
Screw thread	–	M4			
Tightening torque	[Nm]	1.5 - 1.7			
Insulation material		PA			
Inflammability class acc. to UL 94		V0			
Approval data (UL/CUL and CSA)					
Usegroup B	[V] / [A] / AWG	600 / 55 / 20 - 6			
Usegroup C	[V] / [A] / AWG	600 / 55 / 20 - 6			
Usegroup D	[V] / [A] / AWG	on request			

[1]) Observe derating curve
[2]) Only in connection with CRIMPFOX 16 S



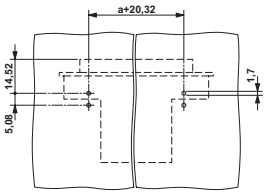
POWER COMBICON
Feed-through plugs
DFK-PC 16/...-STF-SH-10,16
10.16 mm Pitch

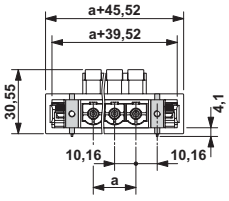


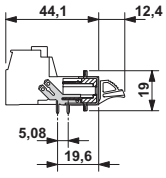
Description	No. of pos.	Dim. a [mm]	Type	Order No.	Pcs./Pkt.
POWER COMBICON feed-throuhg plugs,					
10.16 mm pitch, color: green,	2	10.16	**DFK-PC 16/ 2-STF-SH-10,16**	**1703616**	50
shielded version, with screw flange	3	20.32	**DFK-PC 16/ 3-STF-SH-10,16**	**1703629**	50
	4	30.48	**DFK-PC 16/ 4-STF-SH-10,16**	**1703632**	50
	5	40.64	**DFK-PC 16/ 5-STF-SH-10,16**	**1703645**	50
	6	50.80	**DFK-PC 16/ 6-STF-SH-10,16**	**1703658**	50
	7	60.96	**DFK-PC 16/ 7-STF-SH-10,16**	**1703661**	50
	8	71.12	**DFK-PC 16/ 8-STF-SH-10,16**	**1703674**	50
	9	81.28	**DFK-PC 16/ 9-STF-SH-10,16**	**1703687**	50
Keying profile, is inserted into the slot on the plug and header, red insulating material			**CP-HCC 4**	**1600027**	50
Screws, (DIN ISO 7049 screw ST 2,9 x 9,5), for fixing feed-through terminal blocks on the housing wall			**DFK-PC 16-SS**	**1705449**	20
Screwdriver, to actuate the terminal screws			**SZS 1,0 x 4,0**	**1205066**	10
Marker card, with 10 pcs., 10-section marker strips, white, self-adhesive, for 100 terminal blocks			**SK 10/5** (see COMBICON catalog)		
Crimp pliers, for ferrules of up to 16 mm^2			**CRIMPFOX 16 S**	**1207983**	1

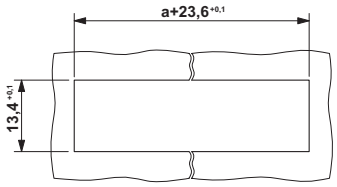
Technical data				
Dimensions		see description		
Pitch	[mm]	10.16		
Technical data in accordance with IEC/ DIN VDE				
Insulating material group	–	I		
Surge voltage category / contamination class	– / –	III / 3	III / 2	II / 2
Rated voltage	[V]	1000	1000	1000
Rated surge voltage	[kV]	8	8	6
Nominal current / cross section	[A] / [mm^2]	57 [1]) / 10		
Maximum load current / cross section	[A] / [mm^2]	76 [1]) / 16		
Connection capacity				
Solid / stranded / conductor sizes	[mm^2] / [mm^2] / AWG	0.75 - 16 / 0.75 - 16 / 18 - 6		
Stranded with ferrule without / with plastic sleeve	[mm^2]	0,5 - 16 [2]) / 0,5 - 16 [2])		
Multiple connection (2 conductors with same cross section)				
Solid / stranded	[mm^2]	0.75 - 6 / 0.75 - 6		
Stranded with ferrules without plastic sleeve	[mm^2]	0.5 - 4		
Stranded with TWIN ferrule with plastic sleeve	[mm^2]	0.5 - 6		
Stripping length	[mm]	14		
Internal cylindrical gage (IEC 60947-1)	–	A6		
Screw thread	–	M4		
Tightening torque	[Nm]	1.5 - 1.7		
Insulation material		PA		
Inflammability class acc. to UL 94		V0		
Approval data (UL/CUL and CSA)				
Usegroup B	[V] / [A] / AWG	600 / 55 / 20 - 6		
Usegroup C	[V] / [A] / AWG	600 / 55 / 20 - 6		
Usegroup D	[V] / [A] / AWG	on request		

[1]) Observe derating curve
[2]) Only in connection with CRIMPFOX 16 S

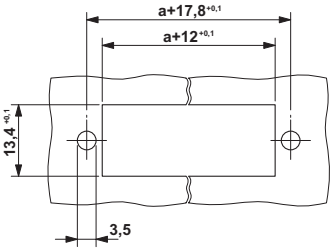




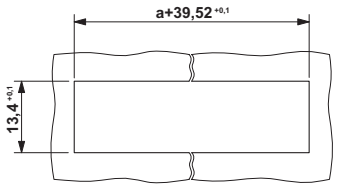




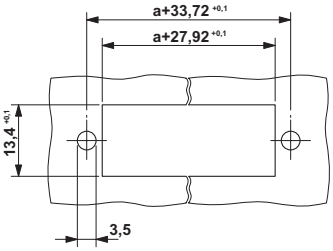
Sheet metal cutout for snap-lock mechanism for "ST" versions



Sheet metal cutout for screw connection for "ST" versions

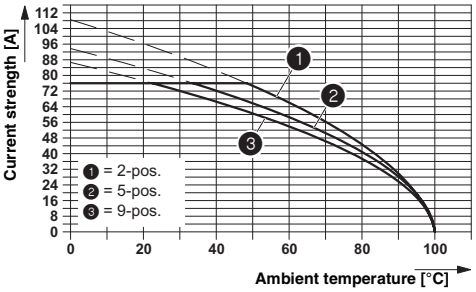


Sheet metal cutout for snap-lock mechanism for "STF" versions



Sheet metal cutout for screw connection for "STF" versions

Derating curve
Type: PC 16/...-ST-10,16 with DFK-PC 16/...-ST-10,16
Connected conductor cross section = 16 mm²
Reduction factor = 0.8
Number of positions = see diagram



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