

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

In the inverted versions of the DFK-IPC 16 feed-through connectors, the screw connection on the device side is designed with female instead of male contacts. This gives a touch-proof device output. This prevents the user from coming into contact with the live device interiors.

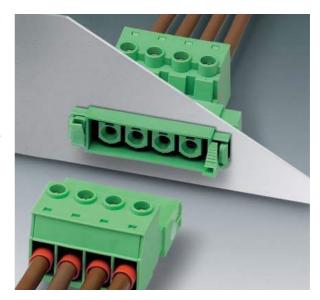
For fastening the feed-through plug connectors in the device housing, there are two possibilities:

- Either the fast snap-lock mechanism without tools or
- The conventional screw fastening.

Both options are included with the product.

The so-called PCB shield metal (in the SH version) provides three options for EMC shielding:

- Discharge of the shielding function to the PCB
- Discharge of the shielding function to the metal housing or
- Discharge through a solder or slip-on connection to the nearest shielding point.



COMBICON Select 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: Systematic and fast selection of products
- Universal Internet aided engineering with extensive CAD downloading
- Easy-to-use e-shopping functions.

select.phoenixcontact.com/combicon

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.

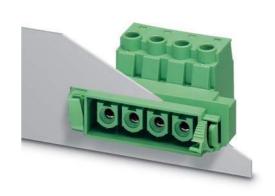






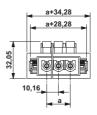
Screw fastening

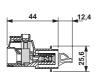
Inverted POWER COMBICON feed-through plugs DFK-IPC 16/...-ST-10,16 10.16 mm Pitch



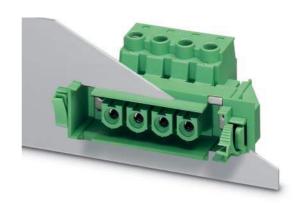
Description	No. of pos.	Dim. a [mm]	Туре	Order No.	Pcs./Pkt.
Inverted POWER COMBICON plugs, 10.16 mm pitch, color: green	2 3 4	10.16 20.32 30.48	DFK-IPC 16/ 2-ST-10,16 DFK-IPC 16/ 3-ST-10,16 DFK-IPC 16/ 4-ST-10,16	1703690 1703700 1703713	10 10 10
	5 6 7	40.64 50.80 60.96	DFK-IPC 16/ 5-ST-10,16 DFK-IPC 16/ 6-ST-10,16 DFK-IPC 16/ 7-ST-10,16	1703726 1703739 1703742	10 10 10
	8 9	71.12 81.28	DFK-IPC 16/ 8-ST-10,16 DFK-IPC 16/ 9-ST-10,16	1703755 1703768	10 10
Keying profile, is inserted into the slot on the and header, red insulating material	plug		CP-HCC 4	1600027	100
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 Pitch		[mm]	see description 10.16		
Technical data in accordance with IEC/ DIN Insulating material group Surge voltage category / contamination class	I VDE	- -/-	I III/3 III/2	II / 2	
Rated voltage Rated surge voltage		[V] [kV]	1000 1000 8 8	1000 6	
Nominal current / cross section Maximum load current / cross section		A] / [mm²] A] / [mm²]	57 ¹) / 10 76¹) / 16		
Connection capacity Solid / stranded / conductor sizes Stranded with ferrule without / with plastic slee	[mm²] / [mn	n²] / AWG [mm²]	0.75 - 16 / 0,75 - 16 / 18 - 6 0.5 - 16 ²) / 0,5 - 16 ²)		
Multiple connection (2 conductors with sai	me cross section	,			
Solid / stranded Stranded with ferrules without plastic sleeve Stranded with TWIN ferrule with plastic sleeve)	[mm²] [mm²] [mm²]	0.75 - 6 / 0.75 - 6 0.5 - 4 0.5 - 6		
Stripping length		[mm]	14		
Internal cylindrical gage (IEC 60947-1) Screw thread		_	A6		
Tightening torque		[Nm]	M4 1.5 - 1.7		
Insulation material		[14111]	PA		
Inflammability class acc. to UL 94			V0		
Approval data (UL/CUL and CSA) Usegroup B	[//1 / [A] / AWG	600 / 55 / 20) 6	
Usegroup C		A] / AWG A] / AWG	600 / 55 / 20 - 6 600 / 55 / 20 - 6		
Usegroup D		A] / AWG A] / AWG	on reques		
y	[1],[,,,,,,,,	¹) Observe derating curve		

Observe derating curve
 Only in connection with CRIMPFOX 16 S



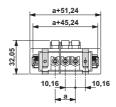


Inverted POWER COMBICON feed-through plugs DFK-IPC 16/...-STF-10,16 10.16 mm Pitch



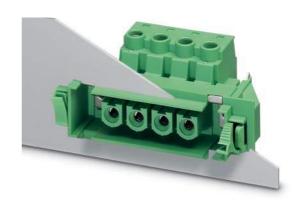
Description	No. of pos.	Dim. a [mm]	Туре	Order No.	Pcs./Pkt.
Inverted POWER COMBICON feed-through plugs, 10.16 mm pitch, color: green,	2	10.16	DFK-IPC 16/ 2-STF-10,16	1703771	10
with screw flange	3	20.32	DFK-IPC 16/ 3-STF-10,16	1703771	10
war corow hange	4	30.48	DFK-IPC 16/ 4-STF-10,16	1703797	10
	5	40.64	DFK-IPC 16/ 5-STF-10,16	1703807	10
	6	50.80	DFK-IPC 16/ 6-STF-10,16	1703810	10
	7	60.96	DFK-IPC 16/ 7-STF-10,16	1703823	10
	8	71.12	DFK-IPC 16/ 8-STF-10,16	1703836	10
	9	81.28	DFK-IPC 16/ 9-STF-10,16	1703849	10
Keying profile, is inserted into the slot on the pand header, red insulating material	blug		CP-HCC 4	1600027	100
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				1	
Dimensions			see description		
Pitch		[mm]	10.16		
Technical data in accordance with IEC/ DIN	VDE				
Insulating material group		_ _/_		11.70	
Surge voltage category / contamination class Rated voltage		-/- [V]	III/3 III/2 1000 1000	II / 2 1000	
Rated voltage		[v] [kV]	8 8	6	
Nominal current / cross section	T.A	ر ۱۲۷] [mm²] / [m	57 ¹) / 10	-	
Maximum load current / cross section		A] / [mm²]	76 ¹) / 16		
Connection capacity	Ľ	NJ/ [IIIIII]			
Solid / stranded / conductor sizes	[mm²] / [mm	n²] / AWG	0.75 - 16 / 0.75 - 1	6 / 18 - 6	
Stranded with ferrule without / with plastic sleev		[mm²]	0.5 - 16 ²) / 0.5		
Multiple connection (2 conductors with sam		on)		,	
Solid / stranded		[mm²]	0.75 - 6 / 0.7	5 - 6	
Stranded with ferrules without plastic sleeve		[mm²]	0.5 - 4		
Stranded with TWIN ferrule with plastic sleeve		[mm²]	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)	D/2 / F	A1 / A\A/C	000 / 55 / 00		
Usegroup B		A] / AWG	600 / 55 / 20		
Usegroup C Usegroup D		A] / AWG	600 / 55 / 20		
Osegroup D	[٧]/[/	A] / AWG	on request		

Observe derating curve
 Only in connection with CRIMPFOX 16 S





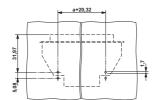
Inverted POWER COMBICON feed-through plugs DFK-IPC 16/...-STF-SH-10,16 10.16 mm Pitch

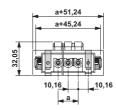


Pcs./Pkt.

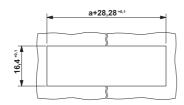
Description	No. of pos.	Dim. a [mm]	Туре	Order No.		
Inverted POWER COMBICON plugs, 10.16 mm pitch, color: green, shielded version, with screw flange	2 3 4	10.16 20.32	DFK-IPC 16/ 2-STF-SH-10,16 DFK-IPC 16/ 3-STF-SH-10,16	1703933 1703946		
	5 6	30.48 40.64 50.80	DFK-IPC 16/ 4-STF-SH-10,16 DFK-IPC 16/ 5-STF-SH-10,16 DFK-IPC 16/ 6-STF-SH-10,16	1703959 1703962 1703975		
	7	60.96	DFK-IPC 16/ 7-STF-SH-10,16	1703988		
	8 9	71.12 81.28	DFK-IPC 16/ 8-STF-SH-10,16 DFK-IPC 16/ 9-STF-SH-10,16	1703991 1704000		
Keying profile, is inserted into the slot on the pand header, red insulating material	plug		CP-HCC 4	1600027		
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		
Screwdriver, to actuate the terminal screws			SZS 1,0 x 4,0	1205066		
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		
Technical data						
Dimensions Pitch	Dimensions Pitch [mm]			see description 10.16		
Technical data in accordance with IEC/ DIN	VDE					
Insulating material group		, –		11.70		
Surge voltage category / contamination class Rated voltage		-/-	III/3 III/2 1000 1000	II / 2 1000		
Rated voltage Rated surge voltage		[V] [kV]	8 8	6		
Nominal current / cross section	[/	[KV] [mm²] / [m	57 1) / 10	U		
Maximum load current / cross section		A] / [mm²]	76¹) / 16			
Connection capacity	· · ·	47 []	,			
Solid / stranded / conductor sizes [mm²] / [mm²] / AWG		0.75 - 16 / 0.75 - 16 / 18 - 6				
Stranded with ferrule without / with plastic sleev	ve .	_ [mm²]	0.5 - 16 ²) / 0.5 -	- 16 ²)		
Multiple connection (2 conductors with same	e cross section	on)				
Solid / stranded		[mm²]	0.75 - 6 / 0.75	5 - 6		
Stranded with ferrules without plastic sleeve		[mm²]	0.5 - 4			
Stranded with TWIN ferrule with plastic sleeve		[mm²]	0.5 - 6			
Stripping length		[mm]	14 A6			
Internal cylindrical gage (IEC 60947-1)		_				
Screw thread – Tightening torque [Nm]			M4 1.5 - 1.7			
Insulation material		[IVIII]	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) Obcarva daratin	a curvo		

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

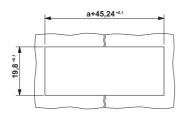




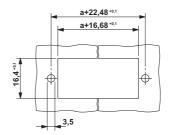




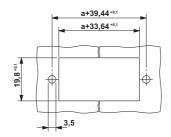
Sheet metal cutout for snap-lock mechanism for "ST" versions



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



Sheet metal cutout for screw connection for "ST" versions



Sheet metal cutout for screw connection for "STF" versions

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

