

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.

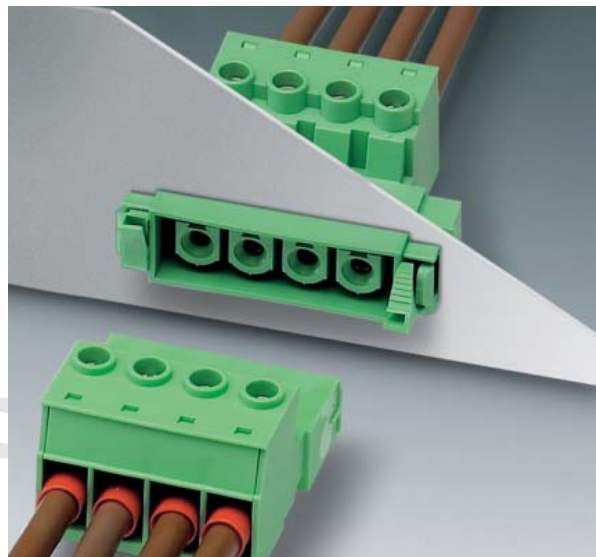
For fastening the feed-through plug connectors in the device housing, there are two possibilities:

- 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.



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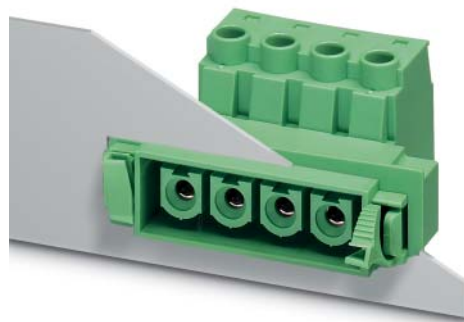
Note:
In compliance with DIN EN 61984, COMBICON plug connectors come without switching capacity. During designated use, they must not be plugged in or disconnected when carrying voltage or under load.



Fast snap-lock mechanism

Screw fastening

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



Description	No. of pos.	Dim. a [mm]
Inverted 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
	9	81.28

Keying profile, is inserted into the slot on the plug and header, red insulating material

Screws, (DIN ISO 7049 screw ST 2,9 x 9,5), for fixing feed-through terminal blocks on the housing wall

Screwdriver, to actuate the terminal screws

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

Crimp pliers, for ferrules of up to 16 mm²

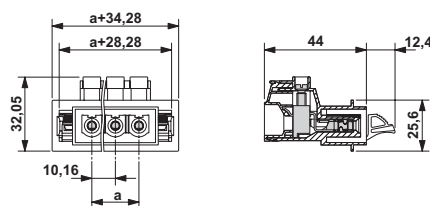
Technical data

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		
Inflammability class acc. to UL 94		PA 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

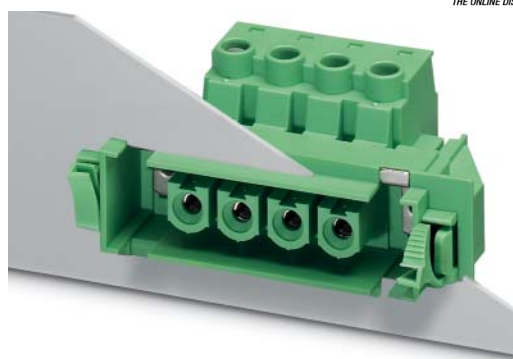
Type	Order No.	Pcs./Pkt.
DFK-IPC 16/ 2-ST-10,16	1703690	10
DFK-IPC 16/ 3-ST-10,16	1703700	10
DFK-IPC 16/ 4-ST-10,16	1703713	10
DFK-IPC 16/ 5-ST-10,16	1703726	10
DFK-IPC 16/ 6-ST-10,16	1703739	10
DFK-IPC 16/ 7-ST-10,16	1703742	10
DFK-IPC 16/ 8-ST-10,16	1703755	10
DFK-IPC 16/ 9-ST-10,16	1703768	10
CP-HCC 4	1600027	100
DFK-PC 16-SS	1705449	20
SZS 1,0 x 4,0	1205066	10
SK 10/5 (see COMBICON catalog)		
CRIMPFOX 16 S	1207983	1

¹⁾ Observe derating curve

²⁾ 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]
Inverted POWER COMBICON feed-through 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
	9	81.28

Keying profile, is inserted into the slot on the plug and header, red insulating material

Screws, (DIN ISO 7049 screw ST 2,9 x 9,5), for fixing feed-through terminal blocks on the housing wall

Screwdriver, to actuate the terminal screws

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

Crimp pliers, for ferrules of up to 16 mm²

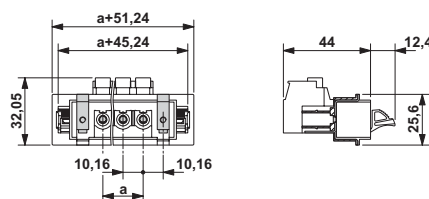
Technical data

Dimensions	
Pitch	[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 ²]
Maximum load current / cross section	[A] / [mm ²]
Connection capacity	
Solid / stranded / conductor sizes	[mm ²] / [mm ²] / AWG
Stranded with ferrule without / with plastic sleeve	[mm ²]
Multiple connection (2 conductors with same cross section)	
Solid / stranded	[mm ²]
Stranded with ferrules without plastic sleeve	[mm ²]
Stranded with TWIN ferrule with plastic sleeve	[mm ²]
Stripping length	[mm]
Internal cylindrical gage (IEC 60947-1)	-
Screw thread	-
Tightening torque	[Nm]
Insulation material	
Inflammability class acc. to UL 94	
Approval data (UL/CUL and CSA)	
Usegroup B	[V] / [A] / AWG
Usegroup C	[V] / [A] / AWG
Usegroup D	[V] / [A] / AWG

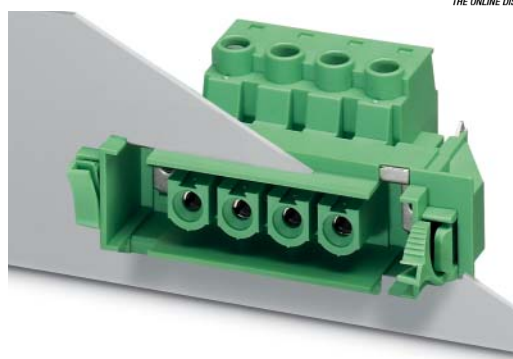
Type	Order No.	Pcs./Pkt.
DFK-IPC 16/ 2-STF-10,16	1703771	10
DFK-IPC 16/ 3-STF-10,16	1703784	10
DFK-IPC 16/ 4-STF-10,16	1703797	10
DFK-IPC 16/ 5-STF-10,16	1703807	10
DFK-IPC 16/ 6-STF-10,16	1703810	10
DFK-IPC 16/ 7-STF-10,16	1703823	10
DFK-IPC 16/ 8-STF-10,16	1703836	10
DFK-IPC 16/ 9-STF-10,16	1703849	10
CP-HCC 4	1600027	100
DFK-PC 16-SS	1705449	20
SZS 1,0 x 4,0	1205066	10
SK 10/5 (see COMBICON catalog)		
CRIMPFOX 16 S	1207983	1
	see description	
	10.16	
	III / 3	I
	1000	III / 2
	8	II / 2
		1000
		6
		57 ¹⁾ / 10
		76 ¹⁾ / 16
	0.75 - 16 / 0.75 - 16 / 18 - 6	
	0.5 - 16 ²⁾ / 0.5 - 16 ²⁾	
	0.75 - 6 / 0.75 - 6	
	0.5 - 4	
	0.5 - 6	
	14	
	A6	
	M4	
	1.5 - 1.7	
	PA	
	V0	
	600 / 55 / 20 - 6	
	600 / 55 / 20 - 6	
	on request	

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



Description	No. of pos.	Dim. a [mm]
Inverted POWER COMBICON plugs, 10.16 mm pitch , color: green, shielded version, with screw flange	2	10.16
	3	20.32
	4	30.48
	5	40.64
	6	50.80
	7	60.96
	8	71.12
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Crimp pliers, for ferrules of up to 16 mm²

Technical data

Dimensions	
Pitch	[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 ²]
Maximum load current / cross section	[A] / [mm ²]
Connection capacity	
Solid / stranded / conductor sizes	[mm ²] / [mm ²] / AWG
Stranded with ferrule without / with plastic sleeve	[mm ²]
Multiple connection (2 conductors with same cross section)	
Solid / stranded	[mm ²]
Stranded with ferrules without plastic sleeve	[mm ²]
Stranded with TWIN ferrule with plastic sleeve	[mm ²]
Stripping length	[mm]
Internal cylindrical gage (IEC 60947-1)	-
Screw thread	-
Tightening torque	[Nm]
Insulation material	
Inflammability class acc. to UL 94	
Approval data (UL/CUL and CSA)	
Usegroup B	[V] / [A] / AWG
Usegroup C	[V] / [A] / AWG
Usegroup D	[V] / [A] / AWG

Type	Order No.	Pcs./Pkt.
DFK-IPC 16/ 2-STF-SH-10,16	1703933	10
DFK-IPC 16/ 3-STF-SH-10,16	1703946	10
DFK-IPC 16/ 4-STF-SH-10,16	1703959	10
DFK-IPC 16/ 5-STF-SH-10,16	1703962	10
DFK-IPC 16/ 6-STF-SH-10,16	1703975	10
DFK-IPC 16/ 7-STF-SH-10,16	1703988	10
DFK-IPC 16/ 8-STF-SH-10,16	1703991	10
DFK-IPC 16/ 9-STF-SH-10,16	1704000	10
CP-HCC 4	1600027	100
DFK-PC 16-SS	1705449	20
SZS 1,0 x 4,0	1205066	10
SK 10/5 (see COMBICON catalog)		
CRIMPFOX 16 S	1207983	1

see description
10.16

	I	II / 2
III / 3	III / 2	1000
1000	1000	1000
8	8	6
	57 ¹⁾ / 10	
	76 ¹⁾ / 16	

0.75 - 16 / 0.75 - 16 / 18 - 6
0.5 - 16²⁾ / 0.5 - 16²⁾

0.75 - 6 / 0.75 - 6

0.5 - 4

0.5 - 6

14

A6

M4

1.5 - 1.7

PA

V0

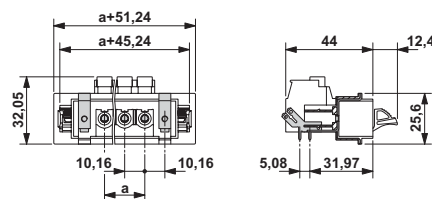
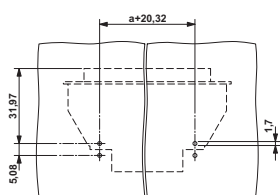
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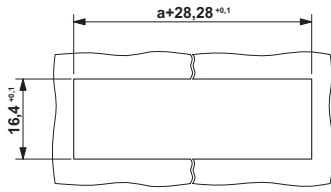
600 / 55 / 20 - 6

on request

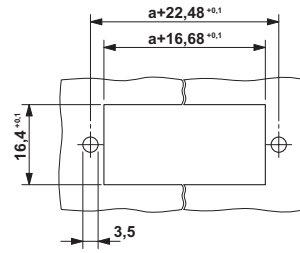
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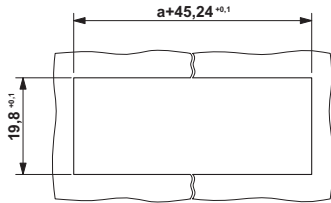




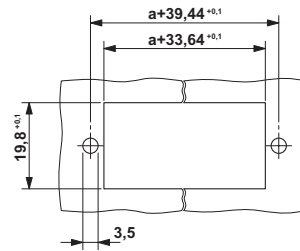
Sheet metal cutout for snap-lock mechanism for "ST" versions



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: 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

