

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

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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.

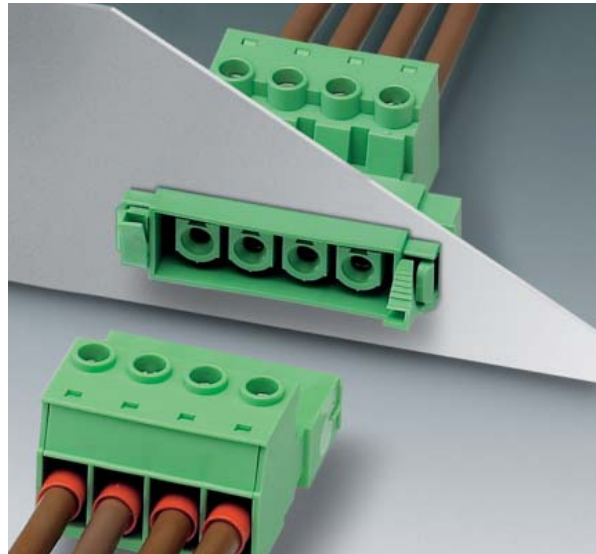
For fastening the feed-through plug connectors in the device housing, there are two possibilities:

- 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

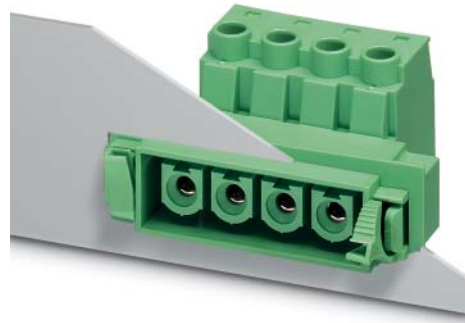


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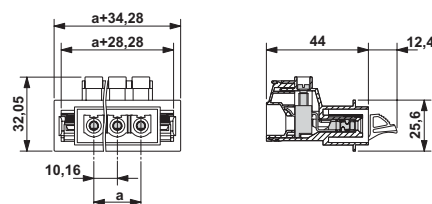
# Inverted POWER COMBICON feed-through plugs DFK-IPC 16/...-ST-10,16 10.16 mm Pitch



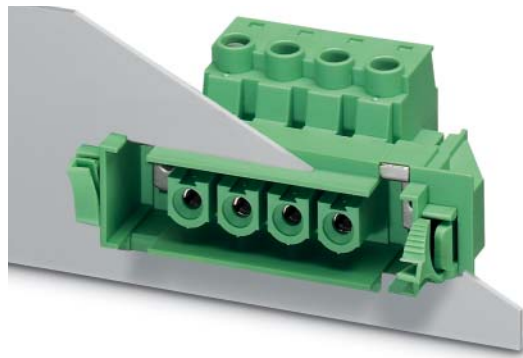
| Description                                                                                                    | No. of pos. | Dim.<br>a<br>[mm]   | Type                                  | Order No.      | Pcs./Pkt. |
|----------------------------------------------------------------------------------------------------------------|-------------|---------------------|---------------------------------------|----------------|-----------|
| <b>Inverted POWER COMBICON plugs,<br/>10.16 mm pitch, color: green</b>                                         |             |                     |                                       |                |           |
|                                                                                                                | 2           | 10.16               | <b>DFK-IPC 16/ 2-ST-10,16</b>         | <b>1703690</b> | 10        |
|                                                                                                                | 3           | 20.32               | <b>DFK-IPC 16/ 3-ST-10,16</b>         | <b>1703700</b> | 10        |
|                                                                                                                | 4           | 30.48               | <b>DFK-IPC 16/ 4-ST-10,16</b>         | <b>1703713</b> | 10        |
|                                                                                                                | 5           | 40.64               | <b>DFK-IPC 16/ 5-ST-10,16</b>         | <b>1703726</b> | 10        |
|                                                                                                                | 6           | 50.80               | <b>DFK-IPC 16/ 6-ST-10,16</b>         | <b>1703739</b> | 10        |
|                                                                                                                | 7           | 60.96               | <b>DFK-IPC 16/ 7-ST-10,16</b>         | <b>1703742</b> | 10        |
|                                                                                                                | 8           | 71.12               | <b>DFK-IPC 16/ 8-ST-10,16</b>         | <b>1703755</b> | 10        |
|                                                                                                                | 9           | 81.28               | <b>DFK-IPC 16/ 9-ST-10,16</b>         | <b>1703768</b> | 10        |
| <b>Keying profile</b> , is inserted into the slot on the plug and header, red insulating material              |             |                     | <b>CP-HCC 4</b>                       | <b>1600027</b> | 100       |
| <b>Screws</b> , (DIN ISO 7049 screw ST 2,9 x 9,5), for fixing feed-through terminal blocks on the housing wall |             |                     | <b>DFK-PC 16-SS</b>                   | <b>1705449</b> | 20        |
| <b>Screwdriver</b> , to actuate the terminal screws                                                            |             |                     | <b>SZS 1,0 x 4,0</b>                  | <b>1205066</b> | 10        |
| <b>Marker card</b> , with 10 pcs., 10-section marker strips, white, self-adhesive, for 100 terminal blocks     |             |                     | <b>SK 10/5</b> (see COMBICON catalog) |                |           |
| <b>Crimp pliers</b> , for ferrules of up to 16 mm <sup>2</sup>                                                 |             |                     | <b>CRIMPFOX 16 S</b>                  | <b>1207983</b> | 1         |
| <b>Technical data</b>                                                                                          |             |                     |                                       |                |           |
| Dimensions                                                                                                     |             |                     | see description                       |                |           |
| Pitch                                                                                                          |             | [mm]                | 10.16                                 |                |           |
| <b>Technical data in accordance with IEC/ DIN VDE</b>                                                          |             |                     |                                       |                |           |
| 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] / [mm²]         | 57 ¹) / 10                            |                |           |
| Maximum load current / cross section                                                                           |             | [A] / [mm²]         | 76 ¹) / 16                            |                |           |
| <b>Connection capacity</b>                                                                                     |             |                     |                                       |                |           |
| Solid / stranded / conductor sizes                                                                             |             | [mm²] / [mm²] / AWG | 0.75 - 16 / 0,75 - 16 / 18 - 6        |                |           |
| Stranded with ferrule without / with plastic sleeve                                                            |             | [mm²]               | 0.5 - 16 ²) / 0,5 - 16 ²)             |                |           |
| <b>Multiple connection (2 conductors with same cross section)</b>                                              |             |                     |                                       |                |           |
| Solid / stranded                                                                                               |             | [mm²]               | 0.75 - 6 / 0.75 - 6                   |                |           |
| Stranded with ferrules without plastic sleeve                                                                  |             | [mm²]               | 0.5 - 4                               |                |           |
| Stranded with TWIN ferrule with plastic sleeve                                                                 |             | [mm²]               | 0.5 - 6                               |                |           |
| <b>Stripping length</b>                                                                                        |             | [mm]                | 14                                    |                |           |
| <b>Internal cylindrical gage (IEC 60947-1)</b>                                                                 |             | –                   | A6                                    |                |           |
| <b>Screw thread</b>                                                                                            |             | –                   | M4                                    |                |           |
| <b>Tightening torque</b>                                                                                       |             | [Nm]                | 1.5 - 1.7                             |                |           |
| <b>Insulation material</b>                                                                                     |             |                     | PA                                    |                |           |
| Inflammability class acc. to UL 94                                                                             |             |                     | V0                                    |                |           |
| <b>Approval data (UL/CUL and CSA)</b>                                                                          |             |                     |                                       |                |           |
| 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                            |                |           |

<sup>1)</sup> Observe derating curve

<sup>2)</sup> 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.<br>a<br>[mm] |
|----------------------------------------------------------------------------------------------------|-------------|-------------------|
| <b>Inverted POWER COMBICON feed-through plugs, 10.16 mm pitch, color: green, with screw flange</b> | 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 mm<sup>2</sup>

## 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<sup>2</sup>]  
Maximum load current / cross section [A] / [mm<sup>2</sup>]

## Connection capacity

Solid / stranded / conductor sizes [mm<sup>2</sup>] / [mm<sup>2</sup>] / AWG  
Stranded with ferrule without / with plastic sleeve [mm<sup>2</sup>]

## Multiple connection (2 conductors with same cross section)

Solid / stranded [mm<sup>2</sup>]  
Stranded with ferrules without plastic sleeve [mm<sup>2</sup>]  
Stranded with TWIN ferrule with plastic sleeve [mm<sup>2</sup>]

**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. |
|---------------------------------------|----------------|-----------|
| <b>DFK-IPC 16/ 2-STF-10,16</b>        | <b>1703771</b> | 10        |
| <b>DFK-IPC 16/ 3-STF-10,16</b>        | <b>1703784</b> | 10        |
| <b>DFK-IPC 16/ 4-STF-10,16</b>        | <b>1703797</b> | 10        |
| <b>DFK-IPC 16/ 5-STF-10,16</b>        | <b>1703807</b> | 10        |
| <b>DFK-IPC 16/ 6-STF-10,16</b>        | <b>1703810</b> | 10        |
| <b>DFK-IPC 16/ 7-STF-10,16</b>        | <b>1703823</b> | 10        |
| <b>DFK-IPC 16/ 8-STF-10,16</b>        | <b>1703836</b> | 10        |
| <b>DFK-IPC 16/ 9-STF-10,16</b>        | <b>1703849</b> | 10        |
| <b>CP-HCC 4</b>                       | <b>1600027</b> | 100       |
| <b>DFK-PC 16-SS</b>                   | <b>1705449</b> | 20        |
| <b>SZS 1,0 x 4,0</b>                  | <b>1205066</b> | 10        |
| <b>SK 10/5</b> (see COMBICON catalog) |                |           |
| <b>CRIMPFOX 16 S</b>                  | <b>1207983</b> | 1         |

see description

10.16

|         |                       |        |
|---------|-----------------------|--------|
| III / 3 | I                     | II / 2 |
| 1000    | 1000                  | 1000   |
| 8       | 8                     | 6      |
|         | 57 <sup>1)</sup> / 10 |        |
|         | 76 <sup>1)</sup> / 16 |        |

0.75 - 16 / 0.75 - 16 / 18 - 6  
0.5 - 16 <sup>2)</sup> / 0.5 - 16 <sup>2)</sup>

0.75 - 6 / 0.75 - 6  
0.5 - 4  
0.5 - 6

14

A6

M4

1.5 - 1.7

PA

V0

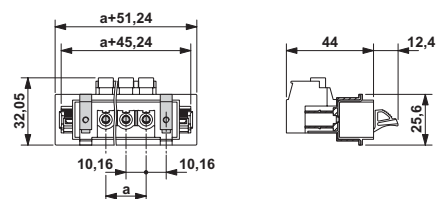
600 / 55 / 20 - 6

600 / 55 / 20 - 6

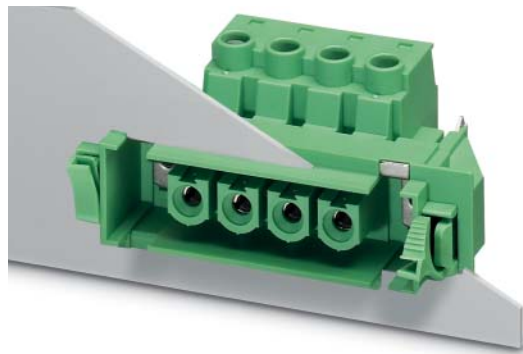
on request

<sup>1)</sup> Observe derating curve

<sup>2)</sup> Only in connection with CRIMPFOX 16 S



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



| Description                                                                                                     | No. of pos. | Dim.<br>a<br>[mm] |
|-----------------------------------------------------------------------------------------------------------------|-------------|-------------------|
| <b>Inverted POWER COMBICON plugs,<br/>10.16 mm pitch, color: green,<br/>shielded version, with screw flange</b> | 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 mm<sup>2</sup>

## 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 <sup>2</sup> ] |
| Maximum load current / cross section         | [A] / [mm <sup>2</sup> ] |

## Connection capacity

|                                                     |                                               |
|-----------------------------------------------------|-----------------------------------------------|
| Solid / stranded / conductor sizes                  | [mm <sup>2</sup> ] / [mm <sup>2</sup> ] / AWG |
| Stranded with ferrule without / with plastic sleeve | [mm <sup>2</sup> ]                            |

## Multiple connection (2 conductors with same cross section)

|                                                |                    |
|------------------------------------------------|--------------------|
| Solid / stranded                               | [mm <sup>2</sup> ] |
| Stranded with ferrules without plastic sleeve  | [mm <sup>2</sup> ] |
| Stranded with TWIN ferrule with plastic sleeve | [mm <sup>2</sup> ] |

**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. |
|---------------------------------------|----------------|-----------|
| <b>DFK-IPC 16/ 2-STF-SH-10,16</b>     | <b>1703933</b> | 10        |
| <b>DFK-IPC 16/ 3-STF-SH-10,16</b>     | <b>1703946</b> | 10        |
| <b>DFK-IPC 16/ 4-STF-SH-10,16</b>     | <b>1703959</b> | 10        |
| <b>DFK-IPC 16/ 5-STF-SH-10,16</b>     | <b>1703962</b> | 10        |
| <b>DFK-IPC 16/ 6-STF-SH-10,16</b>     | <b>1703975</b> | 10        |
| <b>DFK-IPC 16/ 7-STF-SH-10,16</b>     | <b>1703988</b> | 10        |
| <b>DFK-IPC 16/ 8-STF-SH-10,16</b>     | <b>1703991</b> | 10        |
| <b>DFK-IPC 16/ 9-STF-SH-10,16</b>     | <b>1704000</b> | 10        |
| <b>CP-HCC 4</b>                       | <b>1600027</b> | 100       |
| <b>DFK-PC 16-SS</b>                   | <b>1705449</b> | 20        |
| <b>SZS 1,0 x 4,0</b>                  | <b>1205066</b> | 10        |
| <b>SK 10/5</b> (see COMBICON catalog) |                |           |
| <b>CRIMPFOX 16 S</b>                  | <b>1207983</b> | 1         |

see description

10.16

|         |                       |        |
|---------|-----------------------|--------|
| III / 3 | I                     | II / 2 |
| 1000    | 1000                  | 1000   |
| 8       | 8                     | 6      |
|         | 57 <sup>1)</sup> / 10 |        |
|         | 76 <sup>1)</sup> / 16 |        |

0.75 - 16 / 0.75 - 16 / 18 - 6  
0.5 - 16<sup>2)</sup> / 0.5 - 16<sup>2)</sup>

0.75 - 6 / 0.75 - 6  
0.5 - 4  
0.5 - 6

14

A6

M4

1.5 - 1.7

PA

V0

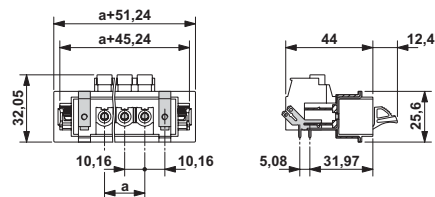
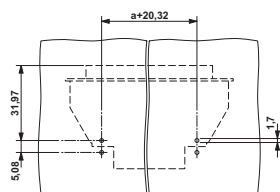
600 / 55 / 20 - 6

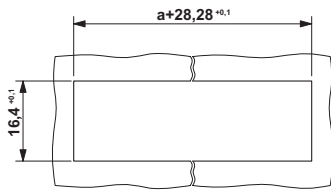
600 / 55 / 20 - 6

on request

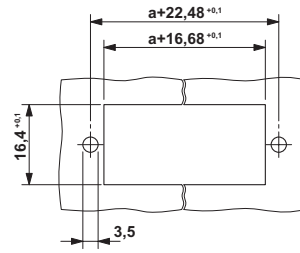
<sup>1)</sup> Observe derating curve

<sup>2)</sup> Only in connection with CRIMPFOX 16 S

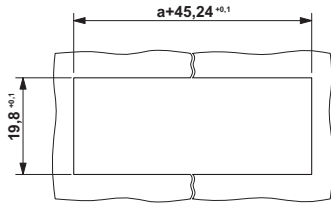




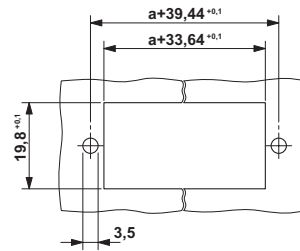
Sheet metal cutout for snap-lock mechanism  
for "ST" versions



Sheet metal cutout for screw connection  
for "ST" versions

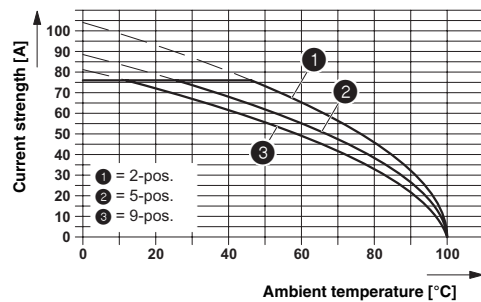


Sheet metal cutout for snap-lock mechanism  
for "STF" versions



Sheet metal cutout for screw connection  
for "STF" versions

**Derating curve**  
Type: IPC 16/...-ST-10,16 with DFK-IPC 16/...-ST-10,16  
Connected conductor cross section = 16 mm<sup>2</sup>  
Reduction factor = 0.8  
Number of positions = see diagram





Компания «ЭлектроПласт» предлагает заключение долгосрочных отношений при поставках импортных электронных компонентов на взаимовыгодных условиях!

Наши преимущества:

- Оперативные поставки широкого спектра электронных компонентов отечественного и импортного производства напрямую от производителей и с крупнейших мировых складов;
- Поставка более 17-ти миллионов наименований электронных компонентов;
- Поставка сложных, дефицитных, либо снятых с производства позиций;
- Оперативные сроки поставки под заказ (от 5 рабочих дней);
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- Техническая поддержка проекта, помощь в подборе аналогов, поставка прототипов;
- Система менеджмента качества сертифицирована по Международному стандарту ISO 9001;
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Помимо этого, одним из направлений компании «ЭлектроПласт» является направление «Источники питания». Мы предлагаем Вам помощь Конструкторского отдела:

- Подбор оптимального решения, техническое обоснование при выборе компонента;
- Подбор аналогов;
- Консультации по применению компонента;
- Поставка образцов и прототипов;
- Техническая поддержка проекта;
- Защита от снятия компонента с производства.



#### Как с нами связаться

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**Факс:** 8 (812) 320-02-42

**Электронная почта:** [org@eplast1.ru](mailto:org@eplast1.ru)

**Адрес:** 198099, г. Санкт-Петербург, ул. Калинина, дом 2, корпус 4, литера А.