

## Printed-circuit board connector - ISPC 16/ 5-STF-10,16 - 1748655

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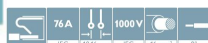
PCB connector, nominal current: 76 A, rated voltage (III/2): 1000 V, nominal cross section: 16 mm<sup>2</sup>, number of positions: 5, pitch: 10.16 mm, connection method: Push-in spring connection, color: green, contact surface: Silver



The figure shows the 5-pos. version

### Your advantages

- ✓ Time saving push-in connection, tools not required
- ✓ Defined contact force ensures that contact remains stable over the long term
- ✓ Clamping space opened by means of fixed screwdriver enables convenient conductor connection
- ✓ Inverted connector with pin contacts for touch-proof device outputs or free-hanging cable/cable connections
- ✓ Screwable flange for superior mechanical stability



### Key Commercial Data

|              |                                                                                      |
|--------------|--------------------------------------------------------------------------------------|
| Packing unit | 50 pc                                                                                |
| GTIN         |  |
| GTIN         | 4046356310710                                                                        |

### Technical data

#### Item properties

|                           |                                 |
|---------------------------|---------------------------------|
| Brief article description | Printed-circuit board connector |
| Plug-in system            | POWER COMBICON 16               |
| Type of contact           | Male connector                  |
| Range of articles         | ISPC 16/...STF                  |
| Pitch                     | 10.16 mm                        |
| Number of positions       | 5                               |
| Connection method         | Push-in spring connection       |
| Locking                   | Screw flange                    |
| Number of levels          | 1                               |
| Number of connections     | 5                               |
| Number of potentials      | 5                               |

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## Technical data

### Electrical parameters

|                             |        |
|-----------------------------|--------|
| Nominal current             | 76 A   |
| Nom. voltage                | 1000 V |
| Rated voltage               | 1000 V |
| Rated voltage (III/2)       | 1000 V |
| Rated voltage (II/2)        | 1000 V |
| Rated surge voltage (III/3) | 8 kV   |
| Rated surge voltage (III/2) | 8 kV   |
| Rated surge voltage (II/2)  | 6 kV   |

### Connection capacity

|                                                                                           |                           |
|-------------------------------------------------------------------------------------------|---------------------------|
| Connection method                                                                         | Push-in spring connection |
| pluggable                                                                                 | Yes                       |
| Conductor cross section solid                                                             | 0.75 mm² ... 16 mm²       |
| Conductor cross section flexible                                                          | 0.75 mm² ... 16 mm²       |
| Conductor cross section AWG / kcmil                                                       | 18 ... 4                  |
| Conductor cross section flexible, with ferrule without plastic sleeve                     | 0.75 mm² ... 16 mm²       |
| Conductor cross section, flexible, with ferrule, with plastic sleeve                      | 0.75 mm² ... 10 mm²       |
| 2 conductors with the same cross section, flexible, with TWIN ferrule with plastic sleeve | 0.75 mm² ... 4 mm²        |
| Stripping length                                                                          | 18 mm                     |

### Material data - contact

|                                          |                                                                                   |
|------------------------------------------|-----------------------------------------------------------------------------------|
| Note                                     | WEEE/RoHS-compliant, free of whiskers according to IEC 60068-2-82/ JEDEC JESD 201 |
| Contact material                         | Cu alloy                                                                          |
| Metal surface terminal point (top layer) | Silver (4 - 8 µm Ag)                                                              |
| Metal surface contact area (top layer)   | Silver (4 - 8 µm Ag)                                                              |

### Material data - housing

|                                                                   |              |
|-------------------------------------------------------------------|--------------|
| Housing color                                                     | green (6021) |
| Insulating material                                               | PA           |
| Insulating material group                                         | I            |
| CTI according to IEC 60112                                        | 600          |
| Flammability rating according to UL 94                            | V0           |
| Glow wire flammability index GWFI according to EN 60695-2-12      | 850          |
| Glow wire ignition temperature GWIT according to EN 60695-2-13    | 775          |
| Temperature for the ball pressure test according to EN 60695-10-2 | 125 °C       |

### Dimensions for the product

|                             |          |
|-----------------------------|----------|
| Length [ l ]                | 45.1 mm  |
| Width [ w ]                 | 68.56 mm |
| Height [ h ]                | 25.1 mm  |
| Pitch                       | 10.16 mm |
| Height (without solder pin) | 25.1 mm  |

## Printed-circuit board connector - ISPC 16/ 5-STF-10,16 - 1748655

### Technical data

#### Packaging information

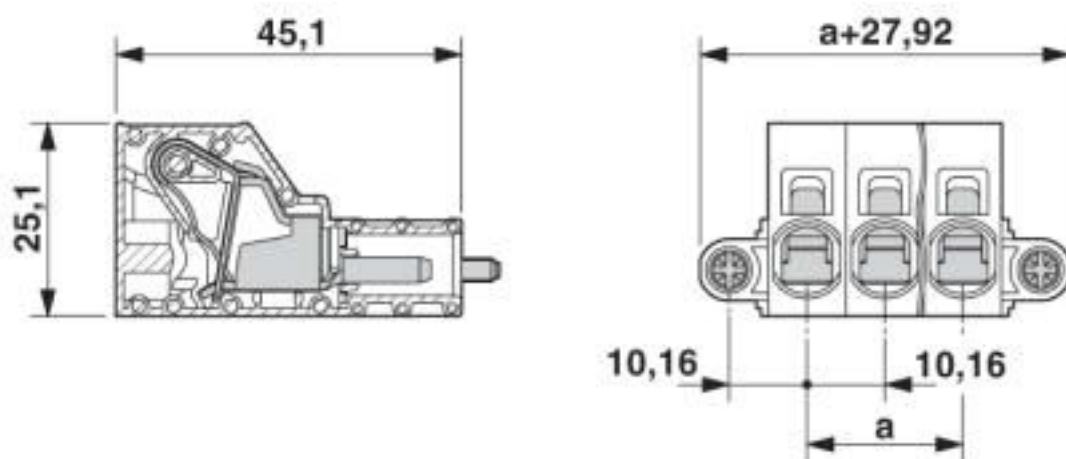
|                            |                     |
|----------------------------|---------------------|
| Type of packaging          | packed in cardboard |
| Pieces per package         | 50                  |
| Denomination packing units | Pcs.                |

#### Environmental Product Compliance

|            |                                                         |
|------------|---------------------------------------------------------|
| China RoHS | Environmentally friendly use period: unlimited = EFUP-e |
|            | No hazardous substances above threshold values          |

### Drawings

Dimensional drawing



### Classifications

#### eCl@ss

|               |          |
|---------------|----------|
| eCl@ss 10.0.1 | 27440309 |
| eCl@ss 4.0    | 27260700 |
| eCl@ss 4.1    | 27260700 |
| eCl@ss 5.0    | 27260700 |
| eCl@ss 5.1    | 27260700 |
| eCl@ss 6.0    | 27260700 |
| eCl@ss 7.0    | 27440309 |
| eCl@ss 8.0    | 27440309 |
| eCl@ss 9.0    | 27440309 |

#### ETIM

|          |          |
|----------|----------|
| ETIM 3.0 | EC001121 |
| ETIM 4.0 | EC002638 |
| ETIM 5.0 | EC002638 |
| ETIM 6.0 | EC002638 |

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## Classifications

### ETIM

|          |          |
|----------|----------|
| ETIM 7.0 | EC002638 |
|----------|----------|

### UNSPSC

|               |          |
|---------------|----------|
| UNSPSC 6.01   | 30211810 |
| UNSPSC 7.0901 | 39121409 |
| UNSPSC 11     | 39121409 |
| UNSPSC 12.01  | 39121409 |
| UNSPSC 13.2   | 39121409 |
| UNSPSC 18.0   | 39121409 |
| UNSPSC 19.0   | 39121409 |
| UNSPSC 20.0   | 39121409 |
| UNSPSC 21.0   | 39121409 |

## Approvals

### Approvals

#### Approvals

IECEE CB Scheme / SEV / EAC / cULus Recognized

#### Ex Approvals

### Approval details

|                    |                                                                                     |                                                           |             |
|--------------------|-------------------------------------------------------------------------------------|-----------------------------------------------------------|-------------|
| IECEE CB Scheme    |  | <a href="http://www.iecee.org/">http://www.iecee.org/</a> | CH-10653-M1 |
| Nominal voltage UN | 1000 V                                                                              |                                                           |             |
| Nominal current IN | 76 A                                                                                |                                                           |             |
| mm²/AWG/kcmil      | 16                                                                                  |                                                           |             |

|                    |                                                                                     |                                                                       |            |
|--------------------|-------------------------------------------------------------------------------------|-----------------------------------------------------------------------|------------|
| SEV                |  | <a href="https://www.eurofins.ch/de/">https://www.eurofins.ch/de/</a> | IK-4468-M1 |
| Nominal voltage UN | 1000 V                                                                              |                                                                       |            |
| Nominal current IN | 76 A                                                                                |                                                                       |            |
| mm²/AWG/kcmil      | 16                                                                                  |                                                                       |            |

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## Approvals

|     |            |         |
|-----|------------|---------|
| EAC | <b>EAC</b> | B.01687 |
|-----|------------|---------|

|                    |              |                                                                                                                                                       |                 |
|--------------------|--------------|-------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------|
| cULus Recognized   | <b>cULus</b> | <a href="http://database.ul.com/cgi-bin/XYV/template/LISEXT/1FRAME/index.htm">http://database.ul.com/cgi-bin/XYV/template/LISEXT/1FRAME/index.htm</a> | E60425-20040202 |
|                    | B            | C                                                                                                                                                     |                 |
| Nominal voltage UN | 600 V        | 600 V                                                                                                                                                 |                 |
| Nominal current IN | 66 A         | 66 A                                                                                                                                                  |                 |
| mm²/AWG/kcmil      | 20-4         | 20-4                                                                                                                                                  |                 |

## Accessories

### Accessories

#### Coding element

Coding profile - CP-PC RD - 1701967



Coding profile, for plugging into the coding ribs of the plug at a later date, insulating material, color: Red

## Crimping tool

Crimping pliers - CRIMPFOX 6 - 1212034



Crimping pliers, for ferrules without insulating collar according to DIN 46228 Part 1 and ferrules with insulating collar according to DIN 46228 Part 4, 0.25 mm² ... 6.0 mm², lateral entry, trapezoidal crimp

Crimping pliers - CRIMPFOX 16 S - 1207983



Crimping pliers for ferrules up to 16 mm²

## Screwdriver tools

## Printed-circuit board connector - ISPC 16/ 5-STF-10,16 - 1748655

### Accessories

Screwdriver - SZF 2-0,8X4,0 - 1204520



Actuation tool, for ST terminal blocks, also suitable for use as a bladed screwdriver, size: 0.8 x 4.0 x 100 mm, 2-component grip, with non-slip grip

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### Terminal marking

Marker strip - SK 5,0 WH:REEL - 0805221



Marker strip, Roll, white, unlabeled, can be labeled with: THERMOMARK ROLL 2.0, THERMOMARK ROLL, THERMOMARK ROLL X1, THERMOMARK ROLLMASTER 300/600, THERMOMARK X1.2, mounting type: adhesive, for terminal block width: 5 mm, lettering field size: continuous x 5#mm, Number of individual labels: 90000

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### Additional products

Feed-through header - IPC 16/ 5-GF-10,16 - 1969645



PCB headers, nominal current: 76 A, rated voltage (III/2): 1000 V, nominal cross section: 16 mm<sup>2</sup>, number of positions: 5, pitch: 10.16 mm, color: green, contact surface: Silver, mounting: Wave soldering, pin layout: Linear three-way pinning, solder pin [P]: 4 mm

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Feed-through header - IPC 16/ 5-GFU-10,16 - 1969962



PCB headers, nominal current: 76 A, rated voltage (III/2): 1000 V, nominal cross section: 16 mm<sup>2</sup>, number of positions: 5, pitch: 10.16 mm, color: green, contact surface: Silver, mounting: Wave soldering, pin layout: Linear pinning, solder pin [P]: 4 mm, Plug direction parallel to the PCB: connector part rotated by 180° with respect to the plug axis.

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Feed-through header - IPCV 16/ 5-GF-10,16 - 1969807



PCB headers, nominal current: 76 A, rated voltage (III/2): 1000 V, nominal cross section: 16 mm<sup>2</sup>, number of positions: 5, pitch: 10.16 mm, color: green, contact surface: Silver, mounting: Wave soldering, pin layout: Linear pinning, solder pin [P]: 4 mm

## Printed-circuit board connector - ISPC 16/ 5-STF-10,16 - 1748655

### Accessories

#### Feed-through header - DFK-IPC 16/ 5-GF-10,16 - 1702769



Feed-through header, nominal current: 76 A, rated voltage (III/2): 1000 V, nominal cross section: 16 mm<sup>2</sup>, number of positions: 5, pitch: 10.16 mm, color: green, contact surface: Silver, mounting: Wave soldering, pin layout: Linear pinning, solder pin [P]: 3.8 mm

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#### Feed-through header - DFK-IPC 16/ 5-GFU-10,16 - 1702840



Feed-through header, nominal current: 76 A, rated voltage (III/2): 1000 V, nominal cross section: 16 mm<sup>2</sup>, number of positions: 5, pitch: 10.16 mm, color: green, contact surface: Silver, mounting: Wave soldering, pin layout: Linear pinning, solder pin [P]: 4.1 mm

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#### Feed-through header - DFK-IPC 16/ 5-GFU-SH-10,16 - 1702921



Feed-through header, nominal current: 76 A, rated voltage (III/2): 1000 V, nominal cross section: 16 mm<sup>2</sup>, number of positions: 5, pitch: 10.16 mm, color: green, contact surface: Silver, mounting: Wave soldering, pin layout: Linear pinning, solder pin [P]: 4.1 mm

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#### Feed-through header - DFK-IPCV 16/ 5-GF-10,16 - 1703247



Feed-through header, nominal current: 76 A, rated voltage (III/2): 1000 V, nominal cross section: 16 mm<sup>2</sup>, number of positions: 5, pitch: 10.16 mm, color: green, contact surface: Silver, mounting: Wave soldering, pin layout: Linear pinning, solder pin [P]: 4.1 mm

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#### Feed-through header - DFK-IPC 16/ 5-GF-SH-10,16 - 1703001



Feed-through header, nominal current: 76 A, rated voltage (III/2): 1000 V, nominal cross section: 16 mm<sup>2</sup>, number of positions: 5, pitch: 10.16 mm, color: green, contact surface: Silver, mounting: Wave soldering, pin layout: Linear pinning, solder pin [P]: 4.1 mm

## Printed-circuit board connector - ISPC 16/ 5-STF-10,16 - 1748655

### Accessories

#### Feed-through plug - DFK-IPC 16/ 5-STF-10,16 - 1703807



Feed-through connector, nominal current: 76 A, rated voltage (III/2): 1000 V, nominal cross section: 16 mm<sup>2</sup>, number of positions: 5, pitch: 10.16 mm, connection method: Screw connection with tension sleeve, color: green, contact surface: Silver

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#### Feed-through plug - DFK-IPC 16/ 5-STF-SH-10,16 - 1703962



Feed-through connector, nominal current: 76 A, rated voltage (III/2): 1000 V, nominal cross section: 16 mm<sup>2</sup>, number of positions: 5, pitch: 10.16 mm, connection method: Screw connection with tension sleeve, color: green, contact surface: Silver

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