

## Printed-circuit board connector - IPC 16/ 3-STF-SH-10,16 - 1737323

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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: 3, pitch: 10.16 mm, connection method: Screw connection with tension sleeve, color: green, contact surface: Silver

The figure shows a 4-position version


### Your advantages

- ✓ Well-known connection principle allows worldwide use
- ✓ Low temperature rise, thanks to maximum contact force
- ✓ Allows connection of two conductors
- ✓ Inverted connector with pin contacts for touch-proof device outputs or free-hanging cable/cable connections
- ✓ Shield for adherence to the EMC requirements and an optional strain relief
- ✓ Screwable flange for superior mechanical stability

RoHS



### Key Commercial Data

|                        |  |
|------------------------|--|
| Packing unit           | 25 pc  |
| Minimum order quantity | 25 pc  |
| GTIN                   |  |
| GTIN                   | 4046356184182  |

### Technical data

#### Dimensions

|              |          |
|--------------|----------|
| Length [ l ] | 94.05 mm |
| Width [ w ]  | 48.24 mm |
| Height [ h ] | 29.05 mm |
| Pitch        | 10.16 mm |
| Dimension a  | 20.32 mm |

#### General

|                     |                  |
|---------------------|------------------|
| Range of articles   | IPC 16/...STF-SH |
| Number of positions | 3                |

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## Technical data

### General

|  |                                      |
|--|--------------------------------------|
| Connection method                      | Screw connection with tension sleeve |
| Insulating material group              | I                                    |
| Rated surge voltage (III/3)            | 8 kV                                 |
| Rated surge voltage (III/2)            | 8 kV                                 |
| Rated surge voltage (II/2)             | 6 kV                                 |
| Rated voltage (III/3)                  | 1000 V                               |
| Rated voltage (III/2)                  | 1000 V                               |
| Rated voltage (II/2)                   | 1000 V                               |
| Connection in acc. with standard       | EN-VDE                               |
| Nominal current $I_N$                  | 76 A                                 |
| Nominal cross section                  | 16 mm <sup>2</sup>                   |
| Maximum load current                   | 76 A                                 |
| Insulating material                    | PA                                   |
| Flammability rating according to UL 94 | V0                                   |
| Internal cylindrical gage              | A6                                   |
| Stripping length                       | 12 mm                                |
| Screw thread                           | M4                                   |
| Tightening torque, min                 | 1.7 Nm                               |
| Tightening torque max                  | 1.8 Nm                               |

### Connection data

|  |  |
|--|--|
| Conductor cross section solid min.   | 0.75 mm <sup>2</sup>                                     |
| Conductor cross section solid max.   | 16 mm <sup>2</sup>                                       |
| Conductor cross section flexible min.  | 0.75 mm <sup>2</sup>                                     |
| Conductor cross section flexible max.  | 16 mm <sup>2</sup>                                       |
| Conductor cross section flexible, with ferrule without plastic sleeve min.                             | 0.5 mm <sup>2</sup>                                      |
| Conductor cross section flexible, with ferrule without plastic sleeve max.                             | 16 mm <sup>2</sup> Only in connection with CRIMPFOX 16 S |
| Conductor cross section flexible, with ferrule with plastic sleeve min.                                | 0.5 mm <sup>2</sup>                                      |
| Conductor cross section flexible, with ferrule with plastic sleeve max.                                | 10 mm <sup>2</sup> Only in connection with CRIMPFOX 16 S |
| Conductor cross section AWG min.   | 18   |
| Conductor cross section AWG max.   | 6  |
| 2 conductors with same cross section, solid min.   | 0.75 mm <sup>2</sup>                                     |
| 2 conductors with same cross section, solid max.   | 6 mm <sup>2</sup>  |
| 2 conductors with same cross section, stranded min.  | 0.75 mm <sup>2</sup>                                     |
| 2 conductors with same cross section, stranded max.  | 6 mm <sup>2</sup>  |
| Two conductors with the same cross section stranded, with ferrule and without plastic sleeve, minimum  | 0.5 mm <sup>2</sup>                                      |
| Two conductors with the same cross section stranded, with ferrule and without plastic sleeve, maximum  | 4 mm <sup>2</sup>  |
| Two conductors with the same cross section, flexible, with TWIN ferrules, with plastic sleeve, minimum | 0.5 mm <sup>2</sup>                                      |

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## Technical data

### Connection data

|  |                   |
|--|-------------------|
| Two conductors with the same cross section, flexible, with TWIN ferrules, with plastic sleeve, maximum | 6 mm <sup>2</sup> |
| Minimum AWG according to UL/CUL  | 20                |
| Maximum AWG according to UL/CUL  | 6                 |

### Standards and Regulations

|  |        |
|--|--------|
| Connection in acc. with standard       | EN-VDE |
|  | CUL    |
| Flammability rating according to UL 94 | V0     |

### Environmental Product Compliance

|            |   |
|------------|---|
| REACH SVHC | Lead 7439-92-1  |
| China RoHS | Environmentally Friendly Use Period = 50 years  |
|            | For details about hazardous substances go to tab "Downloads", Category "Manufacturer's declaration" |

## 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 |
| 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 |

# Printed-circuit board connector - IPC 16/ 3-STF-SH-10,16 - 1737323

## Classifications

### UNSPSC

|             |          |
|-------------|----------|
| 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  |   |            |

|     |   |         |  |
|-----|---|---------|--|
| EAC |  | B.01687 |  |
|-----|---|---------|--|

|                    |   |   |                 |
|--------------------|---|---|-----------------|
| cULus Recognized   |  | <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 |
| Nominal voltage UN | B<br>600 V  | C<br>600 V  |                 |

## Printed-circuit board connector - IPC 16/ 3-STF-SH-10,16 - 1737323

### Approvals

|                                | B    | C    |
|--------------------------------|------|------|
| Nominal current I <sub>N</sub> | 55 A | 55 A |
| mm <sup>2</sup> /AWG/kcmil     | 20-6 | 20-6 |

### 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

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### 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 mm<sup>2</sup> ... 6.0 mm<sup>2</sup>, lateral entry, trapezoidal crimp

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Crimping pliers - CRIMPFOX 16 S - 1207983



Crimping pliers for ferrules up to 16 mm<sup>2</sup>

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### Screwdriver tools

Screwdriver - SZS 1,0X4,0 VDE - 1205066



Screwdriver, slot-headed, VDE insulated, size: 1.0 x 4.0 x 100 mm, 2-component grip, with non-slip grip

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### Shroud

## Printed-circuit board connector - IPC 16/ 3-STF-SH-10,16 - 1737323

### Accessories

Accessories - POWERCOMBICON PCB-SHIELD - 1968387



Accessories, number of positions: 1, pitch: 0 mm, contact surface: Tin

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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/ 3-G-10,16 - 1969548



PCB headers, nominal current: 76 A, rated voltage (III/2): 1000 V, nominal cross section: 16 mm<sup>2</sup>, number of positions: 3, pitch: 10.16 mm, color: green, contact surface: Silver, mounting: Wave soldering, pin layout: Linear pinning, solder pin [P]: 4 mm

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Feed-through header - IPC 16/ 3-GU-10,16 - 1969865



PCB headers, nominal current: 76 A, rated voltage (III/2): 1000 V, nominal cross section: 16 mm<sup>2</sup>, number of positions: 3, 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 - DFK-IPC 16/ 3-GF-SH-10,16 - 1702989



Feed-through header, nominal current: 76 A, rated voltage (III/2): 1000 V, nominal cross section: 16 mm<sup>2</sup>, number of positions: 3, 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 - IPC 16/ 3-STF-SH-10,16 - 1737323

### Accessories

#### Feed-through header - DFK-IPC 16/ 3-GFU-SH-10,16 - 1702905



Feed-through header, nominal current: 76 A, rated voltage (III/2): 1000 V, nominal cross section: 16 mm<sup>2</sup>, number of positions: 3, pitch: 10.16 mm, color: green, contact surface: Silver, mounting: Wave soldering, pin layout: Linear pinning, solder pin [P]: 4.1 mm

#### Feed-through header - DFK-IPCV 16/ 3-GF-10,16 - 1703221



Feed-through header, nominal current: 76 A, rated voltage (III/2): 1000 V, nominal cross section: 16 mm<sup>2</sup>, number of positions: 3, pitch: 10.16 mm, color: green, contact surface: Silver, mounting: Wave soldering, pin layout: Linear pinning, solder pin [P]: 4.1 mm

#### Feed-through plug - DFK-IPC 16/ 3-STF-10,16 - 1703784



Feed-through connector, nominal current: 76 A, rated voltage (III/2): 1000 V, nominal cross section: 16 mm<sup>2</sup>, number of positions: 3, pitch: 10.16 mm, connection method: Screw connection with tension sleeve, color: green, contact surface: Silver

#### Feed-through plug - DFK-IPC 16/ 3-STF-SH-10,16 - 1703946



Feed-through connector, nominal current: 76 A, rated voltage (III/2): 1000 V, nominal cross section: 16 mm<sup>2</sup>, number of positions: 3, pitch: 10.16 mm, connection method: Screw connection with tension sleeve, color: green, contact surface: Silver

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