

## Printed-circuit board connector - IPC 16/ 3-ST-10,16 - 1969386

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Plug component, Nominal current: 76 A, Rated voltage (III/2): 1000 V, Number of positions: 3, Pitch: 10.16 mm, Connection method: Screw connection, Color: green, Contact surface: Silver



The figure shows a 5-pos. version of the product

### Product Features

- Can be plugged into PC 16 plugs or inverted IPC 16 headers
- Unlimited 600 V UL approval
- Inverted IPC 16 plugs with pin contacts for touch-proof device outputs (with IPC 16 G) or free-hanging cable/cable connections



### Key commercial data

|                                      |           |
|--------------------------------------|-----------|
| Packing unit                         | 1 pc      |
| Weight per Piece (excluding packing) | 29.82 GRM |
| Custom tariff number                 | 85366990  |
| Country of origin                    | Poland    |

### Technical data

#### Dimensions

|             |          |
|-------------|----------|
| Pitch       | 10.16 mm |
| Dimension a | 20.32 mm |

#### General

|                             |               |
|-----------------------------|---------------|
| Range of articles           | IPC 16/...-ST |
| 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        |

## Printed-circuit board connector - IPC 16/ 3-ST-10,16 - 1969386

### Technical data

#### General

|   |                    |
|---|--------------------|
| Rated voltage (U/2)                     | 1000 V             |
| Connection in acc. with standard        | EN-VDE             |
| Nominal current I <sub>N</sub>          | 76 A               |
| Nominal cross section                   | 16 mm <sup>2</sup> |
| Maximum load current                    | 76 A               |
| Insulating material                     | PA                 |
| Inflammability class according to UL 94 | V0                 |
| Internal cylindrical gage               | A6                 |
| Stripping length                        | 12 mm              |
| Number of positions                     | 3                  |
| 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 stranded min.   | 0.75 mm <sup>2</sup>                                     |
| Conductor cross section stranded max.   | 16 mm <sup>2</sup>                                       |
| Conductor cross section stranded, with ferrule without plastic sleeve min.              | 0.5 mm <sup>2</sup>                                      |
| Conductor cross section stranded, with ferrule without plastic sleeve max.              | 16 mm <sup>2</sup> Only in connection with CRIMPFOX 16 S |
| Conductor cross section stranded, with ferrule with plastic sleeve min.                 | 0.5 mm <sup>2</sup>                                      |
| Conductor cross section stranded, with ferrule with plastic sleeve max.                 | 10 mm <sup>2</sup> Only in connection with CRIMPFOX 16 S |
| Conductor cross section AWG/kcmil min.  | 18   |
| Conductor cross section AWG/kcmil 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>  |
| 2 conductors with same cross section, stranded, ferrules without plastic sleeve, min.   | 0.5 mm <sup>2</sup>                                      |
| 2 conductors with same cross section, stranded, ferrules without plastic sleeve, max.   | 4 mm <sup>2</sup>  |
| 2 conductors with same cross section, stranded, TWIN ferrules with plastic sleeve, min. | 0.5 mm <sup>2</sup>                                      |
| 2 conductors with same cross section, stranded, TWIN ferrules with plastic sleeve, max. | 6 mm <sup>2</sup>  |
| Minimum AWG according to UL/CUL   | 20   |

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## Technical data

### Connection data

|                                 |   |
|---------------------------------|---|
| Maximum AWG according to UL/CUL | 6 |
|---------------------------------|---|

## Classifications

### eCl@ss

|            |          |
|------------|----------|
| eCl@ss 4.0 | 272607xx |
| eCl@ss 4.1 | 27260701 |
| eCl@ss 5.0 | 27260701 |
| eCl@ss 5.1 | 27260701 |
| eCl@ss 6.0 | 27260704 |
| eCl@ss 7.0 | 27440402 |
| eCl@ss 8.0 | 27440402 |

### ETIM

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

### UNSPSC

|               |          |
|---------------|----------|
| UNSPSC 6.01   | 30211810 |
| UNSPSC 7.0901 | 39121409 |
| UNSPSC 11     | 39121409 |
| UNSPSC 12.01  | 39121409 |
| UNSPSC 13.2   | 39121409 |

## Approvals

### Approvals

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#### Approvals

UL Recognized / cUL Recognized / GOST / GOST / cULus Recognized

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#### Ex Approvals

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#### Approvals submitted

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# Printed-circuit board connector - IPC 16/ 3-ST-10,16 - 1969386

## Approvals

### Approval details

|                                |       |       |
|--------------------------------|-------|-------|
| UL Recognized                  |       |       |
|                                | B     | C     |
| mm <sup>2</sup> /AWG/kcmil     | 20-6  | 20-6  |
| Nominal current I <sub>N</sub> | 55 A  | 55 A  |
| Nominal voltage U <sub>N</sub> | 600 V | 600 V |

|                                |       |       |
|--------------------------------|-------|-------|
| cUL Recognized                 |       |       |
|                                | B     | C     |
| mm <sup>2</sup> /AWG/kcmil     | 20-6  | 20-6  |
| Nominal current I <sub>N</sub> | 55 A  | 55 A  |
| Nominal voltage U <sub>N</sub> | 600 V | 600 V |

|      |  |  |
|------|--|--|
| GOST |  |  |
|------|--|--|

|      |  |  |
|------|--|--|
| GOST |  |  |
|------|--|--|

|                  |  |  |
|------------------|--|--|
| cULus Recognized |  |  |
|------------------|--|--|

## 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



## Printed-circuit board connector - IPC 16/ 3-ST-10,16 - 1969386

### Accessories

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#### Additional products

Printed-circuit board connector - PCU 6/ 3-STD-10,16 - 1922640



Plug component, Nominal current: 41 A, Rated voltage (III/2): 1000 V, Number of positions: 3, Pitch: 10.16 mm, Connection method: Screw connection, Color: green, Contact surface: Silver, Assembly: Direct mounting

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Printed-circuit board connector - PC 16/ 3-ST-10,16 - 1967388



Plug component, Nominal current: 76 A, Rated voltage (III/2): 1000 V, Number of positions: 3, Pitch: 10.16 mm, Connection method: Screw connection, Color: green, Contact surface: Silver

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Printed-circuit board connector - TPC 16/ 3-ST-10,16 - 1715183



Plug component, Nominal current: 76 A, Rated voltage (III/2): 1000 V, Number of positions: 3, Pitch: 10.16 mm, Connection method: Screw connection, Color: green, Contact surface: Silver

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Printed-circuit board connector - IPC 16/ 3-ST-10,16 - 1969386



Plug component, Nominal current: 76 A, Rated voltage (III/2): 1000 V, Number of positions: 3, Pitch: 10.16 mm, Connection method: Screw connection, Color: green, Contact surface: Silver

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Base strip - IPC 16/ 3-G-10,16 - 1969548



Header, Nominal current: 76 A, Rated voltage (III/2): 1000 V, Number of positions: 3, Pitch: 10.16 mm, Color: green, Contact surface: Silver, Assembly: Soldering

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## Printed-circuit board connector - IPC 16/ 3-ST-10,16 - 1969386

### Accessories

#### Base strip - IPC 16/ 3-GU-10,16 - 1969865



Header, Nominal current: 76 A, Rated voltage (III/2): 1000 V, Number of positions: 3, Pitch: 10.16 mm, Color: green, Contact surface: Silver, Assembly: Soldering, Plug direction parallel to the PCB: connector part rotated by 180° with respect to the plug axis.

#### Base strip - IPCV 16/ 3-G-10,16 - 1969700



Header, Nominal current: 76 A, Rated voltage (III/2): 1000 V, Number of positions: 3, Pitch: 10.16 mm, Color: green, Contact surface: Silver, Assembly: Soldering

#### Base strip - DFK-IPC 16/ 3-G-10,16 - 1702426



Header, Nominal current: 76 A, Rated voltage (III/2): 1000 V, Number of positions: 3, Pitch: 10.16 mm, Color: green, Contact surface: Silver, Assembly: Soldering

#### Base strip - DFK-IPC 16/ 3-GU-10,16 - 1702507



Header, Nominal current: 76 A, Rated voltage (III/2): 1000 V, Number of positions: 3, Pitch: 10.16 mm, Color: green, Contact surface: Silver, Assembly: Soldering

#### Base strip - DFK-IPCV 16/ 3-G-10,16 - 1703069



Header, Nominal current: 76 A, Rated voltage (III/2): 1000 V, Number of positions: 3, Pitch: 10.16 mm, Color: green, Contact surface: Silver, Assembly: Soldering

# Printed-circuit board connector - IPC 16/ 3-ST-10,16 - 1969386

## Accessories

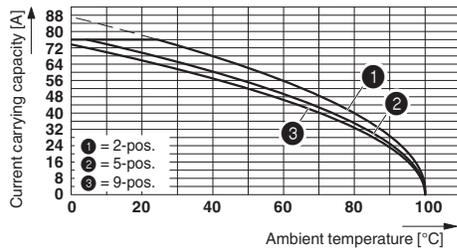
Plug - DFK-IPC 16/ 3-ST-10,16 - 1703700



Plug component, Nominal current: 76 A, Rated voltage (III/2): 1000 V, Number of positions: 3, Pitch: 10.16 mm, Connection method: Screw connection, Color: green, Contact surface: Silver

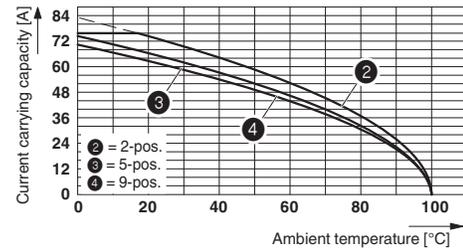
## Drawings

Diagram



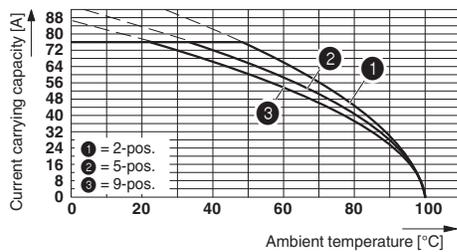
Derating curve for: IPC 16/...-ST-10,16 with DFK-IPC 16/...-G-10,16

Diagram



Derating curve for: IPC 16/...-ST-10,16 with IPC 16/...-G-10,16

Diagram



Derating curve for: PC 16/...-ST-10,16 with IPC 16/...-ST-10,16

Dimensioned drawing

