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# Printed-circuit board connector - IPC 16/ 4-STGF-10,16 - 1975833

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Plug component, Nominal current: 76 A, Rated voltage (III/2): 1000 V, Number of positions: 4, Pitch: 10.16 mm, Connection method: Screw connection with tension sleeve, Color: green, Contact surface: Silver



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

## Why buy this product

- Unlimited 600 V UL approval
- Increased vibration protection thanks to screw-on STGF plugs with threaded flange (can be plugged into PC 16 plugs)
- Inverted IPC 16 plugs with pin contacts for free-hanging cable/cable connections

## Key Commercial Data

|              |                     |
|--------------|---------------------|
| Packing unit | 50 STK              |
| GTIN         | <br>4 017918 953157 |

## Technical data

### Dimensions

|             |          |
|-------------|----------|
| Pitch       | 10.16 mm |
| Dimension a | 30.48 mm |

### General

|  |                    |
|--|--------------------|
| Range of articles                      | IPC 16/...-STGF    |
| 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> |
| Insulating material                    | PA                 |
| Flammability rating according to UL 94 | V0                 |

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## Technical data

### General

|                           |        |
|---------------------------|--------|
| Internal cylindrical gage | A6     |
| Stripping length          | 12 mm  |
| Number of positions       | 4      |
| 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>  |
| 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   |
| 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     |

## Classifications

### eCl@ss

|            |          |
|------------|----------|
| eCl@ss 4.0 | 272607xx |
| eCl@ss 4.1 | 27260701 |

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## Classifications

### eCl@ss

|            |          |
|------------|----------|
| eCl@ss 5.0 | 27260701 |
| eCl@ss 5.1 | 27260701 |
| eCl@ss 6.0 | 27260704 |
| eCl@ss 7.0 | 27440402 |
| eCl@ss 8.0 | 27440309 |

### 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

#### Approvals

UL Recognized / cUL Recognized / SEV / EAC / IECEE CB Scheme / cULus Recognized

#### Ex Approvals

#### Approvals submitted

### 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 |

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## Approvals

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

|                                |        |
|--------------------------------|--------|
| SEV                            |        |
| mm <sup>2</sup> /AWG/kcmil     | 16     |
| Nominal current I <sub>N</sub> | 76 A   |
| Nominal voltage U <sub>N</sub> | 1000 V |

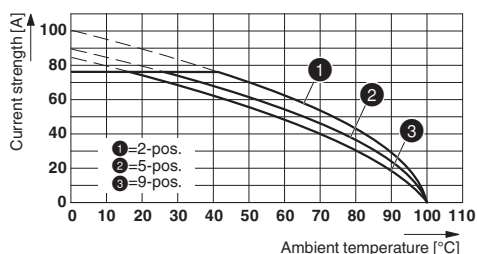
|     |
|-----|
| EAC |
|-----|

|                                |        |
|--------------------------------|--------|
| IECEE CB Scheme                |        |
| Nominal current I <sub>N</sub> | 76 A   |
| Nominal voltage U <sub>N</sub> | 1000 V |

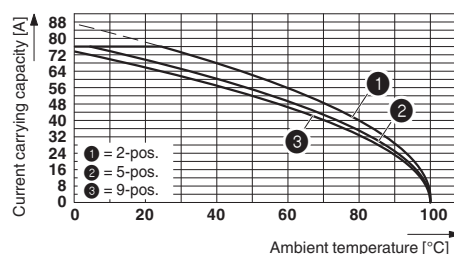
|                  |  |
|------------------|--|
| cULus Recognized |  |
|------------------|--|

## Drawings

Diagram



Diagram

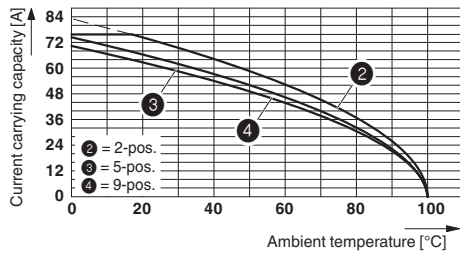


Type: PC 16/...STF-10,16 with IPC 16/...STGF-10,16

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

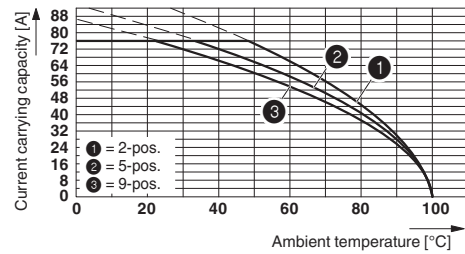
# Printed-circuit board connector - IPC 16/ 4-STGF-10,16 - 1975833

Diagram



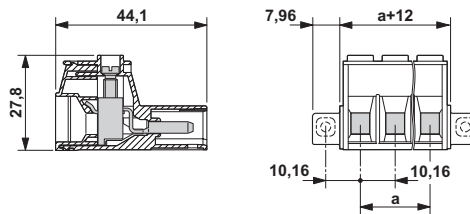
Derating curve for: IPC 16/...-ST-10,16 with IPC 16/...-G-10,16

Diagram



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

Dimensional drawing



The illustration shows the 3-pos. version

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