

## Printed-circuit board connector - IPC 5/ 6-STGF-7,62 - 1709306

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Plug component, Nominal current: 41 A, Rated voltage (III/2): 1000 V, Number of positions: 6, Pitch: 7.62 mm, Connection method: Screw connection, Color: green, Contact surface: Tin



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

### Product Features

- Can be plugged into PC 5 plugs or inverted IPC 5 headers
- Unlimited 600 V UL approval
- Inverted IPC 5 plugs with pin contacts for touch-proof device outputs (with IPC 5 G) or free-hanging cable/cable connections
- STGF plugs with threaded flange



### Key commercial data

|                                      |           |
|--------------------------------------|-----------|
| Packing unit                         | 1 pc      |
| Minimum order quantity               | 50 pc     |
| Weight per Piece (excluding packing) | 28.07 GRM |
| Custom tariff number                 | 85366990  |
| Country of origin                    | Germany   |

### Technical data

#### Dimensions

|             |         |
|-------------|---------|
| Pitch       | 7.62 mm |
| Dimension a | 38.1 mm |

#### General

|                             |                |
|-----------------------------|----------------|
| Range of articles           | IPC 5/...-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           |

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### Technical data

#### General

|   |                   |
|---|-------------------|
| 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 $I_N$                   | 41 A              |
| Nominal cross section                   | 6 mm <sup>2</sup> |
| Maximum load current                    | 41 A              |
| Insulating material                     | PA                |
| Inflammability class according to UL 94 | V0                |
| Stripping length                        | 10 mm             |
| Number of positions                     | 6                 |
| Screw thread                            | M3                |
| Tightening torque, min                  | 0.7 Nm            |
| Tightening torque max                   | 0.8 Nm            |

#### Connection data

|   |                      |
|---|----------------------|
| Conductor cross section solid min.  | 0.2 mm <sup>2</sup>  |
| Conductor cross section solid max.  | 10 mm <sup>2</sup>   |
| Conductor cross section stranded min.   | 0.2 mm <sup>2</sup>  |
| Conductor cross section stranded max.   | 6 mm <sup>2</sup>    |
| Conductor cross section stranded, with ferrule without plastic sleeve min.              | 0.25 mm <sup>2</sup> |
| Conductor cross section stranded, with ferrule without plastic sleeve max.              | 6 mm <sup>2</sup>    |
| Conductor cross section stranded, with ferrule with plastic sleeve min.                 | 0.25 mm <sup>2</sup> |
| Conductor cross section stranded, with ferrule with plastic sleeve max.                 | 4 mm <sup>2</sup>    |
| Conductor cross section AWG/kcmil min.  | 24                   |
| Conductor cross section AWG/kcmil max   | 10                   |
| 2 conductors with same cross section, solid min.  | 0.2 mm <sup>2</sup>  |
| 2 conductors with same cross section, solid max.  | 2.5 mm <sup>2</sup>  |
| 2 conductors with same cross section, stranded min.                                     | 0.2 mm <sup>2</sup>  |
| 2 conductors with same cross section, stranded max.                                     | 4 mm <sup>2</sup>    |
| 2 conductors with same cross section, stranded, ferrules without plastic sleeve, min.   | 0.25 mm <sup>2</sup> |
| 2 conductors with same cross section, stranded, ferrules without plastic sleeve, max.   | 1.5 mm <sup>2</sup>  |
| 2 conductors with same cross section, stranded, TWIN ferrules with plastic sleeve, min. | 0.25 mm <sup>2</sup> |
| 2 conductors with same cross section, stranded, TWIN ferrules with plastic sleeve, max. | 2.5 mm <sup>2</sup>  |
| Minimum AWG according to UL/CUL   | 24                   |

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## Technical data

### Connection data

|                                 |   |
|---------------------------------|---|
| Maximum AWG according to UL/CUL | 8 |
|---------------------------------|---|

## 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 | 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

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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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## Approvals

### Approval details

|                                |       |       |
|--------------------------------|-------|-------|
| UL Recognized                  |       |       |
|                                | B     | C     |
| mm <sup>2</sup> /AWG/kcmil     | 24-8  | 24-8  |
| Nominal current I <sub>N</sub> | 41 A  | 41 A  |
| Nominal voltage U <sub>N</sub> | 600 V | 600 V |

|                                |       |       |
|--------------------------------|-------|-------|
| cUL Recognized                 |       |       |
|                                | B     | C     |
| mm <sup>2</sup> /AWG/kcmil     | 24-8  | 24-8  |
| Nominal current I <sub>N</sub> | 41 A  | 41 A  |
| Nominal voltage U <sub>N</sub> | 600 V | 600 V |

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

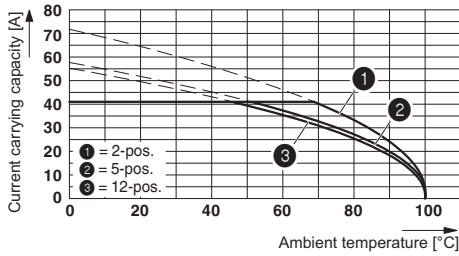
|      |  |  |
|------|--|--|
| GOST |  |  |
|------|--|--|

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

## Drawings

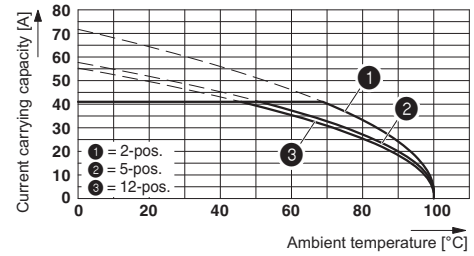
# Printed-circuit board connector - IPC 5/ 6-STGF-7,62 - 1709306

Diagram



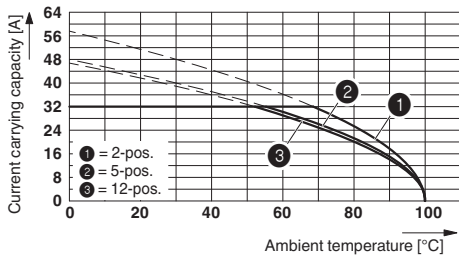
Derating curve for: IPC 5/...-ST-7,62 with PC 5/...-ST-7,62  
Conductor cross section = 10 mm<sup>2</sup>

Diagram



Derating curve for: IPC 5/...-ST-7,62 with IPC 5/...-G-7,62  
Conductor cross section = 10 mm<sup>2</sup>

Diagram



Derating curve for: IPC 5/...-ST-7,62 with IPC 5/...-G-7,62  
Conductor cross section 6 mm<sup>2</sup>

Dimensioned drawing

