

## Printed-circuit board connector - IPC 16/ 6-STGF-10,16 - 1975859

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Plug component, Nominal current: 76 A, Rated voltage (III/2): 1000 V, Number of positions: 6, Pitch: 10.16 mm, Connection method: Screw connection, Color: green, Contact surface: Silver



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

### Why buy this product

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



### Key commercial data

|                                      |                                                                                                         |
|--------------------------------------|---------------------------------------------------------------------------------------------------------|
| Packing unit                         | 50 pc                                                                                                   |
| Minimum order quantity               | 50 pc                                                                                                   |
| GTIN                                 | <br>4 017918 971991 |
| Weight per Piece (excluding packing) | 56.81 g                                                                                                 |
| Custom tariff number                 | 85366990                                                                                                |
| Country of origin                    | Poland                                                                                                  |
| Note                                 | Made to Order (non-returnable)                                                                          |

### Technical data

#### Dimensions

|             |          |
|-------------|----------|
| Pitch       | 10.16 mm |
| Dimension a | 50.8 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          |

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## Technical data

### General

|                                         |                    |
|-----------------------------------------|--------------------|
| 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                 |
| Inflammability class according to UL 94 | V0                 |
| Internal cylindrical gage               | A6                 |
| Stripping length                        | 12 mm              |
| Number of positions                     | 6                  |
| 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                                                       |
| Maximum AWG according to UL/CUL                                                         | 6                                                        |

## Printed-circuit board connector - IPC 16/ 6-STGF-10,16 - 1975859

### 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 / SEV / CCA / EAC / cULus Recognized

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#### Ex Approvals

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#### Approvals submitted

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#### Approval details

|                                                                                                   |      |      |
|---------------------------------------------------------------------------------------------------|------|------|
| UL Recognized  |      |      |
|                                                                                                   | B    | C    |
| mm²/AWG/kcmil                                                                                     | 20-6 | 20-6 |
| Nominal current I <sub>N</sub>                                                                    | 55 A | 55 A |

## Printed-circuit board connector - IPC 16/ 6-STGF-10,16 - 1975859

### Approvals

|                    | B     | C     |
|--------------------|-------|-------|
| Nominal voltage UN | 600 V | 600 V |

| cUL Recognized  |       |       |
|--------------------------------------------------------------------------------------------------|-------|-------|
|                                                                                                  | B     | C     |
| mm²/AWG/kcmil                                                                                    | 20-6  | 20-6  |
| Nominal current IN                                                                               | 55 A  | 55 A  |
| Nominal voltage UN                                                                               | 600 V | 600 V |

| SEV                |        |
|--------------------|--------|
|                    |        |
| mm²/AWG/kcmil      | 16     |
| Nominal current IN | 76 A   |
| Nominal voltage UN | 1000 V |

| CCA                |        |
|--------------------|--------|
|                    |        |
| Nominal current IN | 76 A   |
| Nominal voltage UN | 1000 V |

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

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

### Additional products

## Printed-circuit board connector - IPC 16/ 6-STGF-10,16 - 1975859

### Accessories

Printed-circuit board connector - PC 16/ 6-STF-10,16 - 1967498



Plug component, Nominal current: 76 A, Rated voltage (III/2): 1000 V, Number of positions: 6, Pitch: 10.16 mm, Connection method: Screw connection, Color: green, Contact surface: Silver

Printed-circuit board connector - TPC 16/ 6-STF-10,16 - 1715293



Plug component, Nominal current: 76 A, Rated voltage (III/2): 1000 V, Number of positions: 6, Pitch: 10.16 mm, Connection method: Screw connection, Color: green, Contact surface: Silver

Printed-circuit board connector - SPC 16/ 6-STF-10,16 - 1711417



Plug component, Nominal current: 76 A, Rated voltage (III/2): 1000 V, Number of positions: 6, Pitch: 10.16 mm, Connection method: Spring-cage connection, Color: green, Contact surface: Silver

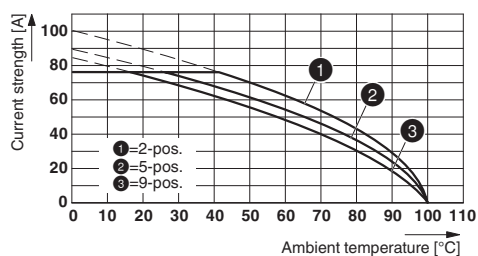
DIN rail adapter - DR 35-PC 16 - 1708410



DIN rail adapter, for snapping the PC 16/IPC 16 connector onto a DIN rail, color: green, mounting type: NS 35/7,5, NS 35/15

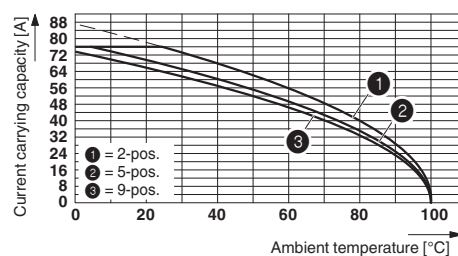
### Drawings

Diagram



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

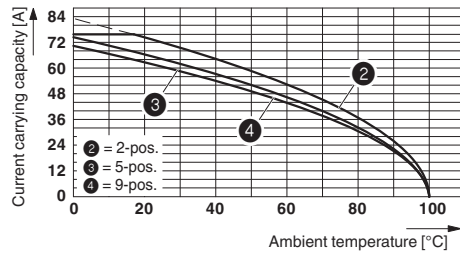
Diagram



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

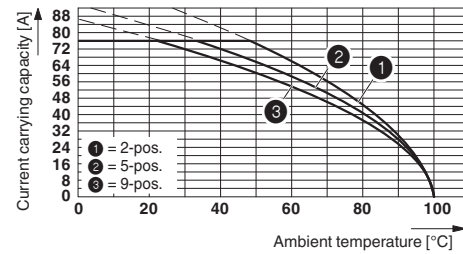
## Printed-circuit board connector - IPC 16/ 6-STGF-10,16 - 1975859

Diagram



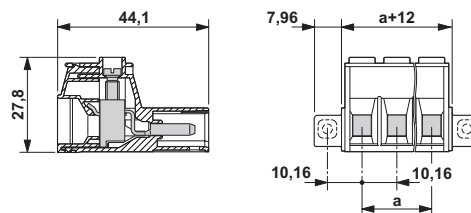
Derating curve for: IPC 16/...-ST-10,16 with IPC 16/...-G-10,16

Diagram



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

Dimensioned drawing



The illustration shows the 3-pos. version