

## Printed-circuit board connector - TPC 16/ 2-ST-10,16 - 1715170

Please be informed that the data shown in this PDF Document is generated from our Online Catalog. Please find the complete data in the user's documentation. Our General Terms of Use for Downloads are valid (<http://phoenixcontact.com/download>)



Plug component, Nominal current: 76 A, Rated voltage (III/2): 1000 V, Number of positions: 2, 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

- ✓ Simple potential distribution by means of two terminal points per contact
- ✓ Plug with double connection and a current carrying capacity of 76 A
- ✓ Unlimited 600 V UL approval
- ✓ Maximum contact reliability due to integrated double steel spring
- ✓ CP-PC RD coding profile



### Key commercial data

|                                      |           |
|--------------------------------------|-----------|
| Packing unit                         | 1 pc      |
| Minimum order quantity               | 20 pc     |
| Weight per Piece (excluding packing) | 50.26 GRM |
| Custom tariff number                 | 85366990  |
| Country of origin                    | Germany   |

### Technical data

#### Dimensions

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

#### General

|                             |              |
|-----------------------------|--------------|
| Range of articles           | TPC 16/..-ST |
| Insulating material group   | I            |
| Rated surge voltage (III/3) | 8 kV         |
| Rated surge voltage (III/2) | 8 kV         |

# Printed-circuit board connector - TPC 16/ 2-ST-10,16 - 1715170

## Technical data

### General

|                                         |                    |
|-----------------------------------------|--------------------|
| 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                 |
| Inflammability class according to UL 94 | V0                 |
| Internal cylindrical gage               | A6                 |
| Stripping length                        | 18 mm              |
| Number of positions                     | 2                  |
| 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.                 | 16 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>                                      |

## Printed-circuit board connector - TPC 16/ 2-ST-10,16 - 1715170

### Technical data

#### Connection data

|                                                                                         |                   |
|-----------------------------------------------------------------------------------------|-------------------|
| 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                                                         | 4                 |

### 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

##### Approvals

UL Recognized / cUL Recognized / GOST / cULus Recognized

##### Ex Approvals

## Printed-circuit board connector - TPC 16/ 2-ST-10,16 - 1715170

### Approvals

Approvals submitted

#### Approval details

|                                                                                                 |       |       |
|-------------------------------------------------------------------------------------------------|-------|-------|
| UL Recognized  |       |       |
|                                                                                                 | B     | C     |
| mm²/AWG/kcmil                                                                                   | 20-4  | 20-4  |
| Nominal current I <sub>N</sub>                                                                  | 60 A  | 60 A  |
| Nominal voltage U <sub>N</sub>                                                                  | 600 V | 600 V |

|                                                                                                  |       |       |
|--------------------------------------------------------------------------------------------------|-------|-------|
| cUL Recognized  |       |       |
|                                                                                                  | B     | C     |
| mm²/AWG/kcmil                                                                                    | 20-4  | 20-4  |
| Nominal current I <sub>N</sub>                                                                   | 60 A  | 60 A  |
| Nominal voltage U <sub>N</sub>                                                                   | 600 V | 600 V |

|                                                                                          |  |  |
|------------------------------------------------------------------------------------------|--|--|
| 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 - TPC 16/ 2-ST-10,16 - 1715170

### Accessories

---

#### Additional products

##### Printed-circuit board connector - IPC 16/ 2-ST-10,16 - 1969373



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

---

##### Printed-circuit board connector - ISPC 16/ 2-ST-10,16 - 1748545



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

---

##### Base strip - PC 6-16/ 2-G1-10,16 - 1998933



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

---

##### Base strip - PC 6-16/ 2-G1U-10,16 - 1996236



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

---

##### Base strip - PCV 6-16/ 2-G1-10,16 - 1998784



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

---

## Printed-circuit board connector - TPC 16/ 2-ST-10,16 - 1715170

### Accessories

Housing - DFK-PC 6-16/ 2-G-10,16 - 1701456



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

Base strip - DFK-PC 6-16/ 2-GU-10,16 - 1701618



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

Base strip - DFK-PCV 6-16/ 2-G-10,16 - 1702099



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

Printed-circuit board connector - DFK-PC 16/ 2-ST-10,16 - 1703373

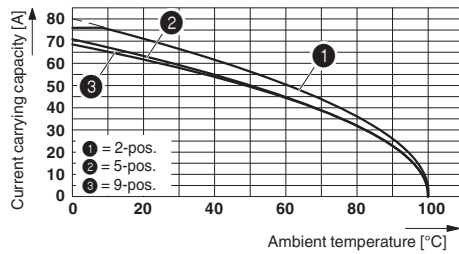


Plug component, Nominal current: 76 A, Rated voltage (III/2): 1000 V, Number of positions: 2, Pitch: 10.16 mm, Connection method: Screw connection, Color: green, Contact surface: Silver

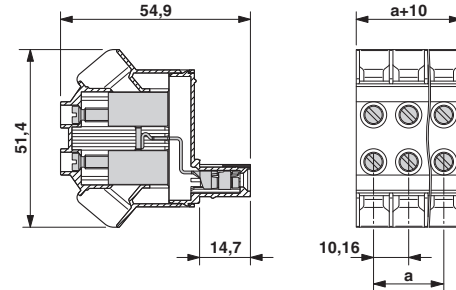
### Drawings

## Printed-circuit board connector - TPC 16/ 2-ST-10,16 - 1715170

Diagram



Dimensioned drawing



Derating curve for: TPC 16/...-ST-10,16 with PC 6-16/...-G-10,16

## Данный компонент на территории Российской Федерации

**Вы можете приобрести в компании MosChip.**

Для оперативного оформления запроса Вам необходимо перейти по данной ссылке:

<http://moschip.ru/get-element>

Вы можете разместить у нас заказ для любого Вашего проекта, будь то серийное производство или разработка единичного прибора.

В нашем ассортименте представлены ведущие мировые производители активных и пассивных электронных компонентов.

Нашей специализацией является поставка электронной компонентной базы двойного назначения, продукции таких производителей как XILINX, Intel (ex.ALTERA), Vicor, Microchip, Texas Instruments, Analog Devices, Mini-Circuits, Amphenol, Glenair.

Сотрудничество с глобальными дистрибьюторами электронных компонентов, предоставляет возможность заказывать и получать с международных складов практически любой перечень компонентов в оптимальные для Вас сроки.

На всех этапах разработки и производства наши партнеры могут получить квалифицированную поддержку опытных инженеров.

Система менеджмента качества компании отвечает требованиям в соответствии с ГОСТ Р ИСО 9001, ГОСТ РВ 0015-002 и ЭС РД 009

### Офис по работе с юридическими лицами:

105318, г.Москва, ул.Щербаковская д.3, офис 1107, 1118, ДЦ «Щербаковский»

Телефон: +7 495 668-12-70 (многоканальный)

Факс: +7 495 668-12-70 (доб.304)

E-mail: [info@moschip.ru](mailto:info@moschip.ru)

Skype отдела продаж:

moschip.ru

moschip.ru\_4

moschip.ru\_6

moschip.ru\_9