

## Printed-circuit board connector - TPC 16/ 7-ST-10,16 - 1715222

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Plug component, Nominal current: 76 A, Rated voltage (III/2): 1000 V, Number of positions: 7, 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) | 22.22 GRM |
| Custom tariff number                 | 85366990  |
| Country of origin                    | Germany   |

### Technical data

#### Dimensions

|             |          |
|-------------|----------|
| Pitch       | 10.16 mm |
| Dimension a | 60.96 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/ 7-ST-10,16 - 1715222

## 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                     | 7                  |
| 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>                                      |

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### 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 / GOST / cULus Recognized

##### Ex Approvals

## Printed-circuit board connector - TPC 16/ 7-ST-10,16 - 1715222

### 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  |  |  |
|------------------------------------------------------------------------------------------|--|--|

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

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

### Accessories

Accessories

Coding element

## Printed-circuit board connector - TPC 16/ 7-ST-10,16 - 1715222

### Accessories

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

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### Additional products

Printed-circuit board connector - IPC 16/ 7-ST-10,16 - 1969425



Plug component, Nominal current: 76 A, Rated voltage (III/2): 1000 V, Number of positions: 7, Pitch: 10.16 mm, Connection method: Screw connection, Color: green, Contact surface: Silver

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Printed-circuit board connector - ISPC 16/ 7-ST-10,16 - 1748590



Plug component, Nominal current: 76 A, Rated voltage (III/2): 1000 V, Number of positions: 7, Pitch: 10.16 mm, Connection method: Spring-cage connection, Color: green, Contact surface: Silver

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Base strip - PC 6-16/ 7-G1-10,16 - 1998988



Header, Nominal current: 76 A, Rated voltage (III/2): 1000 V, Number of positions: 7, Pitch: 10.16 mm, Color: green, Contact surface: Silver, Assembly: Soldering

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Base strip - PC 6-16/ 7-G1U-10,16 - 1996281



Header, Nominal current: 76 A, Rated voltage (III/2): 1000 V, Number of positions: 7, Pitch: 10.16 mm, Color: green, Contact surface: Silver, Assembly: Soldering

## Printed-circuit board connector - TPC 16/ 7-ST-10,16 - 1715222

### Accessories

Base strip - PCV 6-16/ 7-G1-10,16 - 1998836



Header, Nominal current: 76 A, Rated voltage (III/2): 1000 V, Number of positions: 7, Pitch: 10.16 mm, Color: green, Contact surface: Silver, Assembly: Soldering

Base strip - DFK-PC 6-16/ 7-G-10,16 - 1701508



Header, Nominal current: 76 A, Rated voltage (III/2): 1000 V, Number of positions: 7, Pitch: 10.16 mm, Color: green, Contact surface: Silver, Assembly: Soldering

Base strip - DFK-PC 6-16/ 7-GU-10,16 - 1701663



Header, Nominal current: 76 A, Rated voltage (III/2): 1000 V, Number of positions: 7, Pitch: 10.16 mm, Color: green, Contact surface: Silver, Assembly: Soldering

Base strip - DFK-PCV 6-16/ 7-G-10,16 - 1702141



Header, Nominal current: 76 A, Rated voltage (III/2): 1000 V, Number of positions: 7, Pitch: 10.16 mm, Color: green, Contact surface: Silver, Assembly: Soldering

Printed-circuit board connector - DFK-PC 16/ 7-ST-10,16 - 1703425

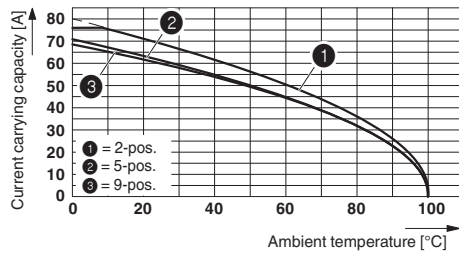


Plug component, Nominal current: 76 A, Rated voltage (III/2): 1000 V, Number of positions: 7, Pitch: 10.16 mm, Connection method: Screw connection, Color: green, Contact surface: Silver

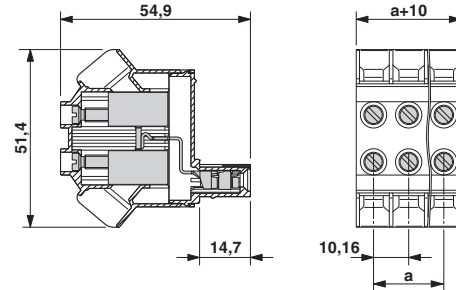
### Drawings

## Printed-circuit board connector - TPC 16/ 7-ST-10,16 - 1715222

Diagram



Dimensioned drawing



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

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