

## Printed-circuit board connector - PC 16/ 3-STF-10,16 - 1967469

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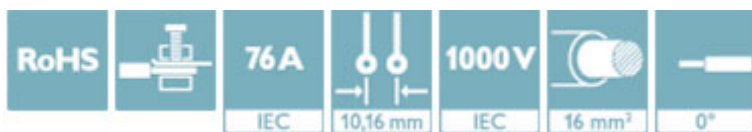
Plug component, nominal current: 76 A, rated voltage (III/2): 1000 V, number of positions: 3, pitch: 10.16 mm, connection method: Screw connection with tension sleeve, Color: green, contact surface: Silver



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

### Why buy this product

- ✓ Well-known connection principle allows worldwide use
- ✓ Low temperature rise, thanks to maximum contact force
- ✓ Allows connection of two conductors
- ✓ Integrated double steel spring provides additional safety in the event of temperature and power fluctuations
- ✓ Screwable flange for superior mechanical stability
- ✓ Integrated protective guide prevents incorrect insertion of the conductor underneath the tension sleeve



### Key Commercial Data

|                                      |                                                                                                         |
|--------------------------------------|---------------------------------------------------------------------------------------------------------|
| Packing unit                         | 50 STK                                                                                                  |
| Minimum order quantity               | 50 STK                                                                                                  |
| GTIN                                 | <br>4 017918 939328 |
| GTIN                                 | 4017918939328                                                                                           |
| Weight per Piece (excluding packing) | 30.230 g                                                                                                |
| Custom tariff number                 | 85366990                                                                                                |
| Country of origin                    | Poland                                                                                                  |

### Technical data

#### Dimensions

|              |          |
|--------------|----------|
| Length [ l ] | 41.5 mm  |
| Width [ w ]  | 48.24 mm |
| Height [ h ] | 27.8 mm  |
| Pitch        | 10.16 mm |
| Dimension a  | 20.32 mm |

# Printed-circuit board connector - PC 16/ 3-STF-10,16 - 1967469

## Technical data

### General

|                                        |                                      |
|----------------------------------------|--------------------------------------|
| Range of articles                      | PC 16/...STF                         |
| Type of contact                        | Female connector                     |
| Number of positions                    | 3                                    |
| Connection method                      | Screw connection with tension sleeve |
| 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>                   |
| Maximum load current                   | 76 A                                 |
| Insulating material                    | PA                                   |
| Flammability rating according to UL 94 | V0                                   |
| Internal cylindrical gage              | A6                                   |
| Stripping length                       | 12 mm                                |
| 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>                                        |

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## Technical data

### Connection data

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

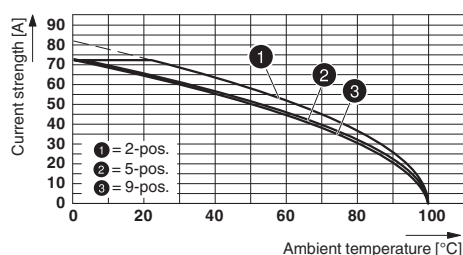
|                                        |        |
|----------------------------------------|--------|
| Connection in acc. with standard       | EN-VDE |
|                                        | CUL    |
| Flammability rating according to UL 94 | V0     |

### Environmental Product Compliance

|            |                                                                                                     |
|------------|-----------------------------------------------------------------------------------------------------|
| China RoHS | Environmentally Friendly Use Period = 50                                                            |
|            | For details about hazardous substances go to tab "Downloads", Category "Manufacturer's declaration" |

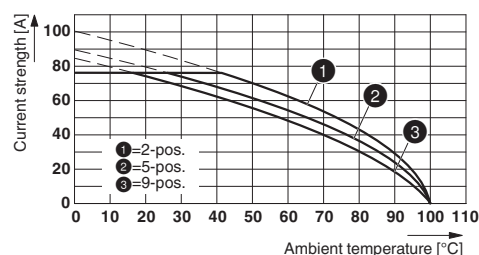
## Drawings

Diagram



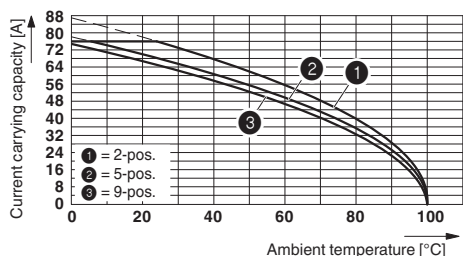
Type: PC 16/...-STF-10,16 with PC 6-16/...-G1F-10,16

Diagram



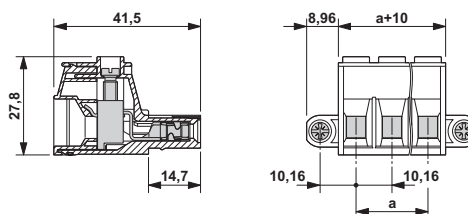
Type: PC 16/...-STF-10,16 with IPC 16/...-STGF-10,16

Diagram



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

Dimensional drawing



## Printed-circuit board connector - PC 16/ 3-STF-10,16 - 1967469

### 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 |
| eCl@ss 9.0 | 27440309 |

#### ETIM

|          |          |
|----------|----------|
| ETIM 3.0 | EC001121 |
| ETIM 4.0 | EC002638 |
| ETIM 5.0 | EC002638 |
| ETIM 6.0 | 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 / SEV / cUL Recognized / IECCE CB Scheme / EAC / cULus Recognized

#### Ex Approvals

#### Approval details

|                                |                                                                                     |                                                                                                                                                       |              |
|--------------------------------|-------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------|--------------|
| UL Recognized                  |  | <a href="http://database.ul.com/cgi-bin/XYV/template/LISEXT/1FRAME/index.htm">http://database.ul.com/cgi-bin/XYV/template/LISEXT/1FRAME/index.htm</a> | FILE E 60425 |
|                                | B                                                                                   | C                                                                                                                                                     |              |
| mm²/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                                                                                                                                                 |              |

## Printed-circuit board connector - PC 16/ 3-STF-10,16 - 1967469

### Approvals

|                                |                                                                                   |                                                                                                                                                       |         |
|--------------------------------|-----------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------|---------|
| SEV                            |  | <a href="https://www.electrosuisse.ch/en/meta/shop/product-certificates.html">https://www.electrosuisse.ch/en/meta/shop/product-certificates.html</a> | IK-3431 |
|                                |                                                                                   |                                                                                                                                                       |         |
| mm <sup>2</sup> /AWG/kcmil     | 16                                                                                |                                                                                                                                                       |         |
| Nominal current I <sub>N</sub> | 76 A                                                                              |                                                                                                                                                       |         |
| Nominal voltage U <sub>N</sub> | 1000 V                                                                            |                                                                                                                                                       |         |

|                                |                                                                                   |                                                                                                                                                       |              |
|--------------------------------|-----------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------|--------------|
| cUL Recognized                 |  | <a href="http://database.ul.com/cgi-bin/XYV/template/LISEXT/1FRAME/index.htm">http://database.ul.com/cgi-bin/XYV/template/LISEXT/1FRAME/index.htm</a> | FILE E 60425 |
|                                | 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                                                                                                                                                 |              |

|                                |                                                                                     |                                                           |         |
|--------------------------------|-------------------------------------------------------------------------------------|-----------------------------------------------------------|---------|
| IECEE CB Scheme                |  | <a href="http://www.iecee.org/">http://www.iecee.org/</a> | CH-8077 |
|                                |                                                                                     |                                                           |         |
| Nominal current I <sub>N</sub> | 76 A                                                                                |                                                           |         |
| Nominal voltage U <sub>N</sub> | 1000 V                                                                              |                                                           |         |

|     |                                                                                     |         |
|-----|-------------------------------------------------------------------------------------|---------|
| EAC |  | B.01742 |
|-----|-------------------------------------------------------------------------------------|---------|

|                  |                                                                                     |                                                                                                                                                       |
|------------------|-------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------|
| cULus Recognized |  | <a href="http://database.ul.com/cgi-bin/XYV/template/LISEXT/1FRAME/index.htm">http://database.ul.com/cgi-bin/XYV/template/LISEXT/1FRAME/index.htm</a> |
|------------------|-------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------|

### 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 - PC 16/ 3-STF-10,16 - 1967469

### Accessories

#### Crimping tool

Crimping pliers - CRIMPFOX 6 - 1212034



Crimping pliers, for ferrules without insulating collar according to DIN 46228 Part 1 and ferrules with insulating collar according to DIN 46228 Part 4, 0.25 mm<sup>2</sup> ... 6.0 mm<sup>2</sup>, lateral entry, trapezoidal crimp

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Crimping pliers - CRIMPFOX 16 S - 1207983



Crimping pliers for ferrules up to 16 mm<sup>2</sup>

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#### Screwdriver tools

Screwdriver - SZS 1,0X4,0 VDE - 1205066



Screwdriver, slot-headed, VDE insulated, size: 1.0 x 4.0 x 100 mm, 2-component grip, with non-slip grip

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#### Terminal marking

Marker strip - SK 5,0 WH:REEL - 0805221



Marker strip, Roll, white, unlabeled, can be labeled with: THERMOMARK ROLL, THERMOMARK ROLL X1, THERMOMARK ROLLMASTER 300/600, THERMOMARK X1.2, THERMOMARK S1.1, Mounting type: adhesive, for terminal block width: 5 mm, Lettering field: continuous x 5 mm

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#### Additional products

Base strip - PCV 6-16/ 3-G1F-10,16 - 1998878



Header, nominal current: 76 A, rated voltage (III/2): 1000 V, number of positions: 3, pitch: 10.16 mm, Color: green, contact surface: Silver, mounting: Wave soldering

## Printed-circuit board connector - PC 16/ 3-STF-10,16 - 1967469

### Accessories

#### Base strip - PC 6-16/ 3-G1F-10,16 - 1999013



Header, nominal current: 76 A, rated voltage (III/2): 1000 V, number of positions: 3, pitch: 10.16 mm, Color: green, contact surface: Silver, mounting: Wave soldering

#### Base strip - PC 6-16/ 3-G1FU-10,16 - 1996320



Header, nominal current: 76 A, rated voltage (III/2): 1000 V, number of positions: 3, pitch: 10.16 mm, Color: green, contact surface: Silver, mounting: Wave soldering

#### Printed-circuit board connector - IPC 16/ 3-STGF-10,16 - 1975820



Plug component, nominal current: 76 A, rated voltage (III/2): 1000 V, number of positions: 3, pitch: 10.16 mm, connection method: Screw connection with tension sleeve, Color: green, contact surface: Silver

#### Printed-circuit board connector - ISPC 16/ 3-STGF-10,16 - 1748710



Plug component, nominal current: 76 A, rated voltage (III/2): 1000 V, number of positions: 3, pitch: 10.16 mm, connection method: Push-in spring connection, Color: green, contact surface: Silver

#### Printed-circuit board connector - DFK-PC 16/ 3-STF-10,16 - 1703467



Plug component, nominal current: 76 A, rated voltage (III/2): 1000 V, number of positions: 3, pitch: 10.16 mm, connection method: Screw connection with tension sleeve, Color: green, contact surface: Silver

## Printed-circuit board connector - PC 16/ 3-STF-10,16 - 1967469

### Accessories

Printed-circuit board connector - DFK-PC 16/ 3-STF-SH-10,16 - 1703629



Plug component, nominal current: 76 A, rated voltage (III/2): 1000 V, number of positions: 3, pitch: 10.16 mm, connection method: Screw connection with tension sleeve, Color: green, contact surface: Silver

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Base strip - DFK-PC 6-16/ 3-GF-10,16 - 1701540



Header, nominal current: 76 A, rated voltage (III/2): 1000 V, number of positions: 3, pitch: 10.16 mm, Color: green, contact surface: Silver, mounting: Wave soldering

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Base strip - DFK-PC 6-16/ 3-GFU-10,16 - 1701702



Header, nominal current: 76 A, rated voltage (III/2): 1000 V, number of positions: 3, pitch: 10.16 mm, Color: green, contact surface: Silver, mounting: Wave soldering

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Base strip - DFK-PCV 6-16/ 3-GF-10,16 - 1702264



Header, nominal current: 76 A, rated voltage (III/2): 1000 V, number of positions: 3, pitch: 10.16 mm, Color: green, contact surface: Silver, mounting: Wave soldering

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Base strip - DFK-PC 6-16/ 3-GF-SH-10,16 - 1701948



Header, nominal current: 76 A, rated voltage (III/2): 1000 V, number of positions: 3, pitch: 10.16 mm, Color: green, contact surface: Silver, mounting: Wave soldering

## Printed-circuit board connector - PC 16/ 3-STF-10,16 - 1967469

### Accessories

Base strip - DFK-PC 6-16/ 3-GFU-SH-10,16 - 1702028



Header, nominal current: 76 A, rated voltage (III/2): 1000 V, number of positions: 3, pitch: 10.16 mm, Color: green, contact surface: Silver, mounting: Wave soldering