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# Printed-circuit board connector - DFK-PC 16/ 2-STF-SH-10,16 - 1703616

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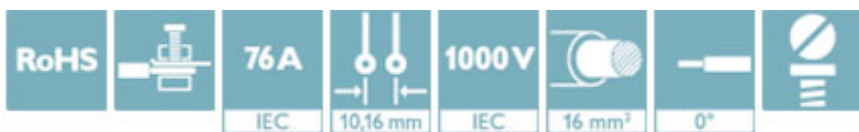
Feed-through connector, nominal current: 76 A, rated voltage (III/2): 1000 V, number of positions: 2, pitch: 10.16 mm, connection method: Screw connection with tension sleeve, color: green, contact surface: Silver




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
- Flange system enables secure fixing to the housing panel by means of tool-free snap-in locking or screws
- Shroud for professional EMC shield feed-through on the inside of the device
- Screwable flange for superior mechanical stability



## Key Commercial Data

|              |   |
|--------------|---|
| Packing unit | 10 STK  |
| GTIN         | <br>4 017918 994457 |
| GTIN         | 4017918994457   |

## Technical data

### Item properties

|                           |                                      |
|---------------------------|--------------------------------------|
| Brief article description | Printed-circuit board connector      |
| Range of articles         | DFK-PC 16/..-STF-SH                  |
| Pitch                     | 10.16 mm                             |
| Type of contact           | Male connector                       |
| Plug-in system            | POWER COMBICON 16                    |
| Number of positions       | 2                                    |
| Connection method         | Screw connection with tension sleeve |
| Drive form screw head     | Slotted                              |
| Screw thread              | M4                                   |

# Printed-circuit board connector - DFK-PC 16/ 2-STF-SH-10,16 - 1703616

## Technical data

### Item properties

|                  |              |
|------------------|--------------|
| Locking          | Screw flange |
| Number of levels | 1            |

### Electrical parameters

|                                  |        |
|----------------------------------|--------|
| Rated current                    | 76 A   |
| Rated insulation voltage (III/2) | 1000 V |
| Rated surge voltage (III/2)      | 8 kV   |

### Connection capacity

|  |   |
|--|---|
| Conductor cross section solid  | 0.75 mm <sup>2</sup> ... 16 mm <sup>2</sup> |
| Conductor cross section flexible   | 0.75 mm <sup>2</sup> ... 16 mm <sup>2</sup> |
| Conductor cross section AWG / kcmil  | 18 ... 6                                    |
| Conductor cross section flexible, with ferrule without plastic sleeve                  | 0.5 mm <sup>2</sup> ... 16 mm <sup>2</sup>  |
| Conductor cross section, flexible, with ferrule, with plastic sleeve                   | 0.5 mm <sup>2</sup> ... 16 mm <sup>2</sup>  |
| 2 conductors with same cross section, solid  | 0.75 mm <sup>2</sup> ... 6 mm <sup>2</sup>  |
| 2 conductors with same cross section, flexible   | 0.75 mm <sup>2</sup> ... 6 mm <sup>2</sup>  |
| 2 conductors with same cross section, stranded, ferrules without plastic sleeve        | 0.5 mm <sup>2</sup> ... 4 mm <sup>2</sup>   |
| 2 conductors with same cross section, stranded, with TWIN ferrules with plastic sleeve | 0.5 mm <sup>2</sup> ... 6 mm <sup>2</sup>   |

### Material data - contact

|  |   |
|--|---|
| Note                                     | WEEE/RoHS-compliant, free of whiskers according to IEC 60068-2-82/ JEDEC JESD 201 |
| Contact material                         | Cu alloy  |
| Surface characteristics                  | Electroplated silver  |
| Metal surface terminal point (top layer) | Silver (4 - 8 µm Ag)  |
| Metal surface contact area (top layer)   | Silver (4 - 8 µm Ag)  |

### Material data - housing

|  |     |
|--|-----|
| Insulating material                    | PA  |
| Insulating material group              | I   |
| CTI according to IEC 60112             | 600 |
| Flammability rating according to UL 94 | V0  |

### Dimensions for the product

|                             |          |
|-----------------------------|----------|
| Length [ l ]                | 44.1 mm  |
| Width [ w ]                 | 55.68 mm |
| Height [ h ]                | 30.55 mm |
| Pitch                       | 10.16 mm |
| Height (without solder pin) | 27.8 mm  |
| Solder pin [P]              | 4.1 mm   |
| Dimension a                 | 10.16 mm |

### Packaging information

# Printed-circuit board connector - DFK-PC 16/ 2-STF-SH-10,16 - 1703616

## Technical data

### Packaging information

|                            |                     |
|----------------------------|---------------------|
| Type of packaging          | packed in cardboard |
| Pieces per package         | 10                  |
| Denomination packing units | Pcs.                |

### Air clearances and creepage distances

|                                  |                     |
|----------------------------------|---------------------|
| Specification                    | IEC 60664-1:2007-04 |
| Insulating material group        | I                   |
| Voltage                          | 1000 V              |
| Rated insulation voltage (III/3) | 1000 V              |
| Rated insulation voltage (III/2) | 1000 V              |
| Rated insulation voltage (II/2)  | 1000 V              |
| Rated surge voltage (III/3)      | 8 kV                |
| Rated surge voltage (III/2)      | 8 kV                |
| Rated surge voltage (II/2)       | 6 kV                |

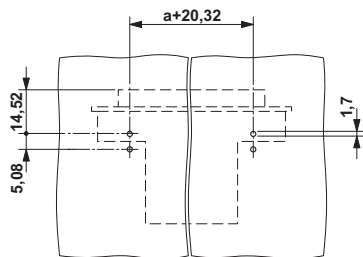
### Current carrying capacity / derating curves

#### Environmental Product Compliance

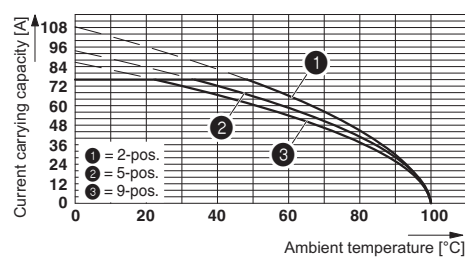
|            |   |
|------------|---|
| REACH SVHC | Lead 7439-92-1  |
| China RoHS | Environmentally Friendly Use Period = 50  |
|            | For details about hazardous substances go to tab "Downloads", Category "Manufacturer's declaration" |

## Drawings

Drilling diagram



Diagram

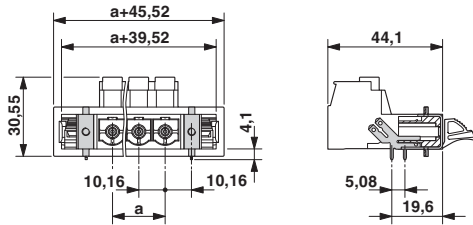


Derating curve for: PC 16/...-ST-10.16 with DFK-PC 16/...-ST-10.16

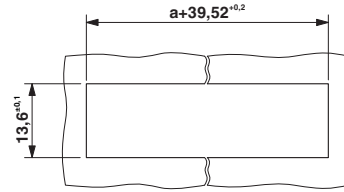


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Dimensional drawing

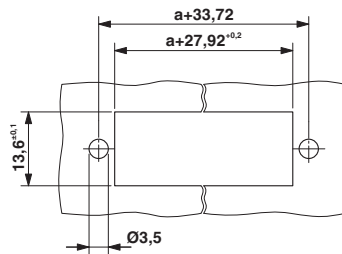


Dimensional drawing



Sheet metal cutout for snap-on.

Dimensional drawing



Sheet metal cutout for screw connection.

## Approvals

Approvals

Approvals

SEV / IECCE CB Scheme / EAC / cULus Recognized


Ex Approvals

## Approval details


|                            |        |   |         |
|----------------------------|--------|---|---------|
| 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 |
| Nominal voltage UN         | 1000 V |   |         |
| Nominal current IN         | 76 A   |   |         |
| mm <sup>2</sup> /AWG/kcmil | 16     |   |         |

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## Approvals

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

|     |   |         |
|-----|---|---------|
| 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> | E60425-20040202 |
|                            | B   | C   |                 |
| Nominal voltage UN         | 600 V   | 600 V   |                 |
| Nominal current IN         | 55 A  | 55 A  |                 |
| mm <sup>2</sup> /AWG/kcmil | 20-6  | 20-6  |                 |

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