

# Printed-circuit board connector - DFK-PC 5/ 6-STF-7,62 - 1716658

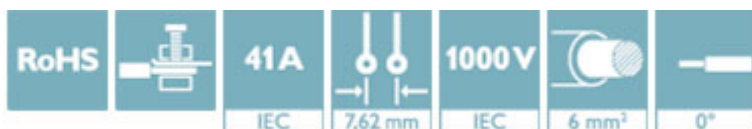
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Feed-through connector, nominal current: 41 A, rated voltage (III/2): 1000 V, number of positions: 6, pitch: 7.62 mm, connection method: Screw connection with tension sleeve, color: green, contact surface: Tin




## 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 connection on the front of the device
- ✓ Screwable flange for superior mechanical stability



## Key Commercial Data

|              |   |
|--------------|---|
| Packing unit | 10 STK  |
| GTIN         | <br>4 046356 137270 |
| GTIN         | 4046356137270   |

## Technical data

### Dimensions

|              |          |
|--------------|----------|
| Length [ l ] | 48.95 mm |
| Width [ w ]  | 80.34 mm |
| Height [ h ] | 26.24 mm |
| Pitch        | 7.62 mm  |
| Dimension a  | 38.1 mm  |

### General

|                     |                                      |
|---------------------|--------------------------------------|
| Range of articles   | DFK-PC 5/...-STF                     |
| Type of contact     | Male connector                       |
| Number of positions | 6                                    |
| Connection method   | Screw connection with tension sleeve |

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## Technical data

### General

|  |                   |
|--|-------------------|
| 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)                  | 630 V             |
| Rated voltage (III/2)                  | 1000 V            |
| Rated voltage (II/2)                   | 1000 V            |
| Connection in acc. with standard       | EN-VDE            |
| Nominal current $I_N$                  | 41 A              |
| Nominal cross section                  | 6 mm <sup>2</sup> |
| Maximum load current                   | 41 A              |
| Insulating material                    | PA                |
| Flammability rating according to UL 94 | V0                |
| Stripping length                       | 10 mm             |
| Screw thread                           | M3                |
| Tightening torque, min                 | 0.7 Nm            |
| Tightening torque max                  | 0.8 Nm            |

### Connection data

|   |                      |
|---|----------------------|
| Conductor cross section solid min.  | 0.2 mm <sup>2</sup>  |
| Conductor cross section solid max.  | 10 mm <sup>2</sup>   |
| Conductor cross section flexible min.   | 0.2 mm <sup>2</sup>  |
| Conductor cross section flexible max.   | 6 mm <sup>2</sup>    |
| Conductor cross section flexible, with ferrule without plastic sleeve min.              | 0.25 mm <sup>2</sup> |
| Conductor cross section flexible, with ferrule without plastic sleeve max.              | 6 mm <sup>2</sup>    |
| Conductor cross section flexible, with ferrule with plastic sleeve min.                 | 0.25 mm <sup>2</sup> |
| Conductor cross section flexible, with ferrule with plastic sleeve max.                 | 4 mm <sup>2</sup>    |
| Conductor cross section AWG min.  | 24                   |
| Conductor cross section AWG max.  | 10                   |
| 2 conductors with same cross section, solid min.  | 0.2 mm <sup>2</sup>  |
| 2 conductors with same cross section, solid max.  | 2.5 mm <sup>2</sup>  |
| 2 conductors with same cross section, stranded min.                                     | 0.2 mm <sup>2</sup>  |
| 2 conductors with same cross section, stranded max.                                     | 4 mm <sup>2</sup>    |
| 2 conductors with same cross section, stranded, ferrules without plastic sleeve, min.   | 0.25 mm <sup>2</sup> |
| 2 conductors with same cross section, stranded, ferrules without plastic sleeve, max.   | 1.5 mm <sup>2</sup>  |
| 2 conductors with same cross section, stranded, TWIN ferrules with plastic sleeve, min. | 0.25 mm <sup>2</sup> |
| 2 conductors with same cross section, stranded, TWIN ferrules with plastic sleeve, max. | 2.5 mm <sup>2</sup>  |
| Minimum AWG according to UL/CUL   | 24                   |

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## Technical data

### Connection data

|                                 |   |
|---------------------------------|---|
| Maximum AWG according to UL/CUL | 8 |
|---------------------------------|---|

### Standards and Regulations

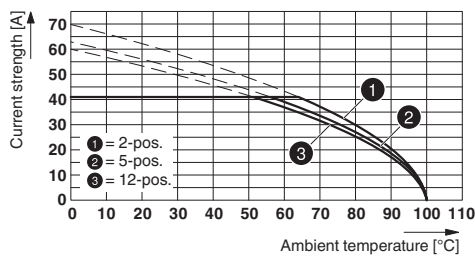
|  |        |
|--|--------|
| Connection in acc. with standard       | EN-VDE |
|  | CUL    |
| Flammability rating according to UL 94 | V0     |

### Environmental Product Compliance

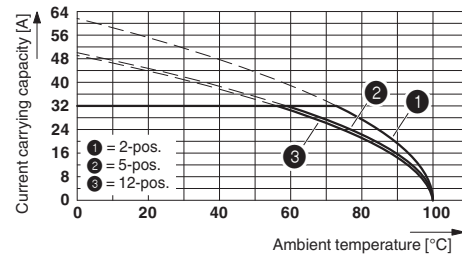
|            |   |
|------------|---|
| REACH SVHC | Lead 7439-92-1  |
| China RoHS | Environmentally Friendly Use Period = 50  |
|            | For details about hazardous substances go to tab "Downloads", Category "Manufacturer's declaration" |

## Drawings

Diagram



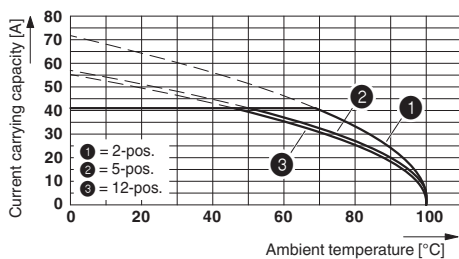
Diagram



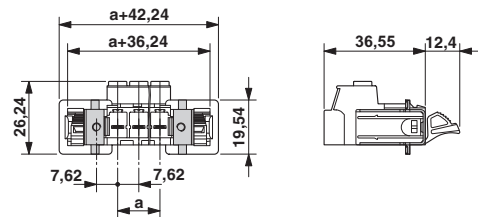
Type: SPC 5/...-STF-7,62 with DFK-PC 5/...-STF-7,62  
 Conductor cross section: 10 mm<sup>2</sup>

Derating curve for: DFK-PC 5/...-ST-7,62 with PC 5/...-ST-7,62  
 Conductor cross section = 6 mm<sup>2</sup>

Diagram



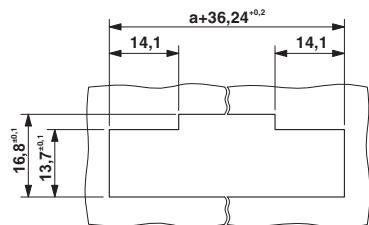
Dimensional drawing



Derating curve for: DFK-PC 5/...-ST-7,62 with PC 5/...-ST-7,62  
 Conductor cross section = 10 mm<sup>2</sup>

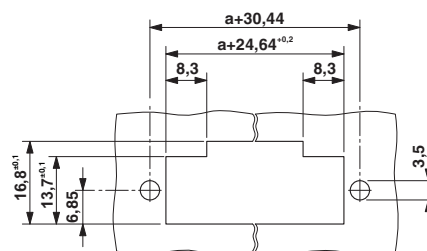
# Printed-circuit board connector - DFK-PC 5/ 6-STF-7,62 - 1716658

Dimensional drawing



Sheet metal cutout for snap-on.

Dimensional drawing



Sheet metal cutout for screw connection.

## Approvals

### Approvals

Approvals

EAC / cULus Recognized

Ex Approvals

### Approval details

|     |  |         |
|-----|--|---------|
| 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> | E60425-19920722 |
|------------------|--|---|-----------------|

|                            | B     | C     |
|----------------------------|-------|-------|
| Nominal voltage UN         | 600 V | 600 V |
| Nominal current IN         | 41 A  | 41 A  |
| mm <sup>2</sup> /AWG/kcmil | 24-8  | 24-8  |

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