

# DFK-PC 4/ 7-G-7,62-FS4,8 - Feed-through header



1861206

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Feed-through header, nominal cross section: 4 mm<sup>2</sup>, color: green, nominal current: 15 A, rated voltage (III/2): 400 V, contact surface: Sn, contact connection type: Pin, number of potentials: 7, number of rows: 1, number of positions: 7, number of connections: 7, product range: DFK-PC 4/..-G -FS4,8, pitch: 7.62 mm, connection method: Spade connection, mounting: Direct mounting, number of solder pins per potential: 1, plug-in system: COMBICON PC 4, Pin connector pattern alignment: Standard, locking: without, mounting method: without, type of packaging: packed in cardboard

## Your advantages

- Space-saving, standardized slip-on connection allows worldwide use
- Cable connection on the inside of the device enables flexible positioning of the panel feed-through

## Commercial data

|                                      |                                |
|--------------------------------------|--------------------------------|
| Item number                          | 1861206                        |
| Packing unit                         | 50 pc                          |
| Minimum order quantity               | 50 pc                          |
| Note                                 | Made to order (non-returnable) |
| Sales key                            | AA04                           |
| Product key                          | AADWAA                         |
| GTIN                                 | 4017918125721                  |
| Weight per piece (including packing) | 16.48 g                        |
| Weight per piece (excluding packing) | 15.367 g                       |
| Customs tariff number                | 85366990                       |
| Country of origin                    | PL                             |

## Technical data

### Product properties

|                           |                       |
|---------------------------|-----------------------|
| Product type              | Feed-through header   |
| Product family            | DFK-PC 4/..-G -FS4,8  |
| Product line              | COMBICON Connectors L |
| Type                      | Feed-through header   |
| Number of positions       | 7                     |
| Pitch                     | 7.62 mm               |
| Number of connections     | 7                     |
| Number of rows            | 1                     |
| Number of potentials      | 7                     |
| Mounting type             | without               |
| Solder pins per potential | 1                     |

### Electrical properties

#### Properties

|                             |       |
|-----------------------------|-------|
| Nominal current $I_N$       | 15 A  |
| Nominal voltage $U_N$       | 400 V |
| Rated voltage (III/3)       | 400 V |
| Rated surge voltage (III/3) | 4 kV  |
| Rated voltage (III/2)       | 400 V |
| Rated surge voltage (III/2) | 4 kV  |
| Rated voltage (II/2)        | 800 V |
| Rated surge voltage (II/2)  | 4 kV  |

### Mounting

|               |                 |
|---------------|-----------------|
| Mounting type | Direct mounting |
|---------------|-----------------|

### Material specifications

#### 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                     | Tin-plated   |
| Metal surface contact area (top layer)      | Tin (5 - 10 $\mu\text{m}$ Sn)  |
| Metal surface contact area (middle layer)   | Nickel (2 - 5 $\mu\text{m}$ Ni)  |
| Metal surface soldering area (top layer)    | Tin (5 - 10 $\mu\text{m}$ Sn)  |
| Metal surface soldering area (middle layer) | Nickel (2 - 5 $\mu\text{m}$ Ni)  |

#### Material data - housing

|                     |              |
|---------------------|--------------|
| Color (Housing)     | green (6021) |
| Insulating material | PA           |

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1861206

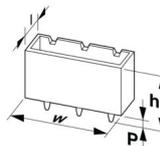
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|  |     |
|--|-----|
| Insulating material group              | I   |
| CTI according to IEC 60112             | 600 |
| Flammability rating according to UL 94 | V2  |

## Notes

|                    |  |
|--------------------|--|
| Notes on operation | In accordance with IEC 61984, COMBICON connectors have no switching power (COC). During designated use, they must not be plugged in or disconnected when carrying voltage or under load. |
|--------------------|--|

## Dimensions

|                     |  |
|---------------------|--|
| Dimensional drawing |  |
| Pitch               | 7.62 mm  |
| Width [w]           | 68.56 mm   |
| Height [h]          | 14.3 mm  |
| Length [l]          | 37.35 mm   |
| Installed height    | 14.3 mm  |
| Pin dimensions      | 0.8 x 4.8 mm   |

## Electrical tests

### Air clearances and creepage distances |

|  |                     |
|--|---------------------|
| Specification  | IEC 60664-1:2007-04 |
| Insulating material group                              | I                   |
| Comparative tracking index (IEC 60112)                 | CTI 600             |
| Rated insulation voltage (III/3)                       | 400 V               |
| Rated surge voltage (III/3)                            | 4 kV                |
| minimum clearance value - non-homogenous field (III/3) | 3 mm                |
| minimum creepage distance (III/3)                      | 5 mm                |
| Rated insulation voltage (III/2)                       | 400 V               |
| Rated surge voltage (III/2)                            | 4 kV                |
| minimum clearance value - non-homogenous field (III/2) | 3 mm                |
| minimum creepage distance (III/2)                      | 3 mm                |
| Rated insulation voltage (II/2)                        | 800 V               |
| Rated surge voltage (II/2)                             | 4 kV                |
| minimum clearance value - non-homogenous field (II/2)  | 3 mm                |
| minimum creepage distance (II/2)                       | 4 mm                |

## Environmental and real-life conditions

### Ambient conditions

|                                 |   |
|---------------------------------|---|
| Ambient temperature (operation) | -40 °C ... 100 °C (dependent on the derating curve) |
|---------------------------------|---|

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|   |                  |
|---|------------------|
| Ambient temperature (storage/transport) | -40 °C ... 70 °C |
| Relative humidity (storage/transport)   | 30 % ... 70 %    |
| Ambient temperature (assembly)          | -5 °C ... 100 °C |

## Packaging specifications

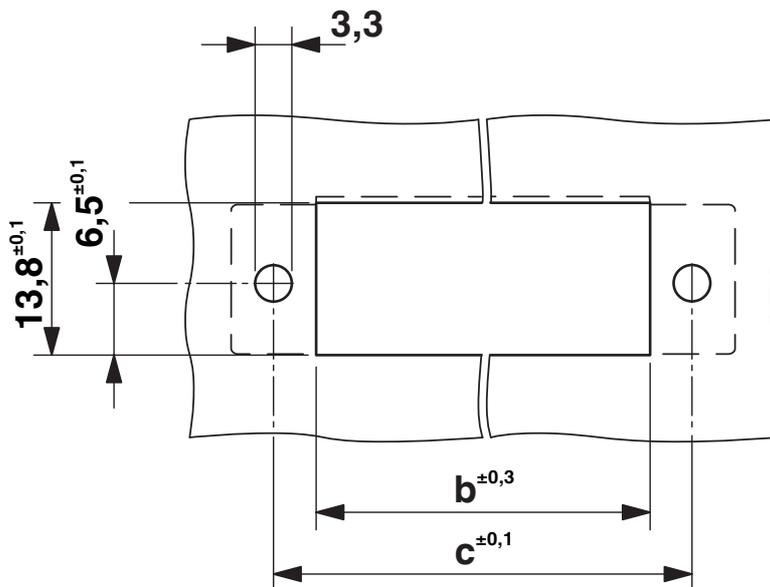
|                   |                     |
|-------------------|---------------------|
| Type of packaging | packed in cardboard |
|-------------------|---------------------|

## Packaging specifications

|                   |                     |
|-------------------|---------------------|
| Type of packaging | packed in cardboard |
|-------------------|---------------------|

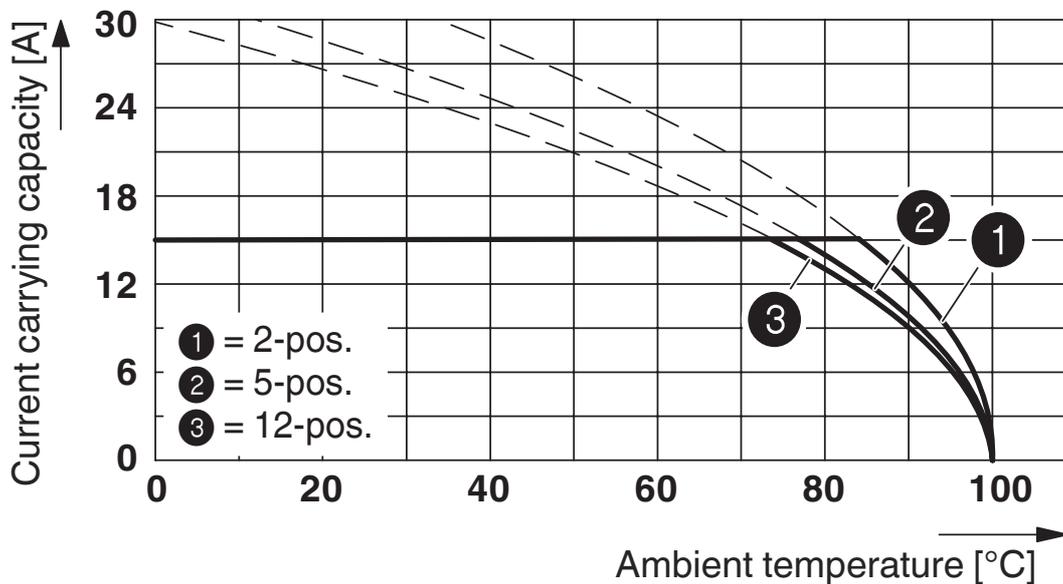
## Drawings

Dimensional drawing



Dimension b = 53.29 mm; dimension c = 60.96 mm

Diagram



Derating curve for: PC 4/...-ST-7,62 with DFK-PC 4/...-G-7,62-FS4,8

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## Approvals

To download certificates, visit the product detail page: <https://www.phoenixcontact.com/us/products/1861206>

|  <b>cULus Recognized</b><br>Approval ID: E60425-19920722 |                       |                       |                   |                             |
|---|-----------------------|-----------------------|-------------------|-----------------------------|
|   | Nominal voltage $U_N$ | Nominal current $I_N$ | Cross section AWG | Cross section $\text{mm}^2$ |
| <b>B</b>  |                       |                       |                   |                             |
| For 600 V applications, additional insulation is required on the solder pins  | 300 V                 | 20 A                  | -                 | -                           |
| <b>C</b>  |                       |                       |                   |                             |
| For 600 V applications, additional insulation is required on the solder pins  | 300 V                 | 20 A                  | -                 | -                           |

|  <b>CSA</b><br>Approval ID: 2355836 |                       |                       |                   |                             |
|--|-----------------------|-----------------------|-------------------|-----------------------------|
|  | Nominal voltage $U_N$ | Nominal current $I_N$ | Cross section AWG | Cross section $\text{mm}^2$ |
| <b>B</b>   |                       |                       |                   |                             |
|  | 300 V                 | 20 A                  | -                 | -                           |
| <b>C</b>   |                       |                       |                   |                             |
|  | 300 V                 | 20 A                  | -                 | -                           |

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## Classifications

### ECLASS

|             |          |
|-------------|----------|
| ECLASS-13.0 | 27460201 |
| ECLASS-15.0 | 27460201 |

### ETIM

|          |          |
|----------|----------|
| ETIM 9.0 | EC002637 |
|----------|----------|

### UNSPSC

|             |          |
|-------------|----------|
| UNSPSC 21.0 | 39121400 |
|-------------|----------|

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## Environmental product compliance

### EU RoHS

|   |                    |
|---|--------------------|
| Fulfills EU RoHS substance requirements | Yes, No exemptions |
|---|--------------------|

### China RoHS

|  |  |
|--|--|
| Environment friendly use period (EFUP) | EFUP-E                                   |
|  | No hazardous substances above the limits |

### EU REACH SVHC

|                                     |                            |
|-------------------------------------|----------------------------|
| REACH candidate substance (CAS No.) | No substance above 0.1 wt% |
|-------------------------------------|----------------------------|

### EF3.0 Climate Change

|         |               |
|---------|---------------|
| CO2e kg | 0.239 kg CO2e |
|---------|---------------|

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