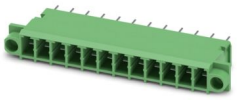
# DFK-PC 4/12-G-7,62-FS4,8 - Feed-through header

1861251

https://www.phoenixcontact.com/us/products/1861251

Please be informed that the data shown in this PDF document is generated from our online catalog. Please find the complete data in the user documentation. Our general terms of use for downloads are valid.



Feed-through header, nominal cross section: 4 mm$^2$, color: green, nominal current: 15 A, rated voltage (III/2): 400 V, contact surface: Sn, contact connection type: Pin, number of potentials: 12, number of rows: 1, number of positions: 12, number of connections: 12, 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 | 1861251 |
| Packing unit | 50 pc |
| Minimum order quantity | 50 pc |
| Note | Made to order (non-returnable) |
| Sales key | AA04 |
| Product key | AADWAA |
| GTIN | 4017918125776 |
| Weight per piece (including packing) | 26.98 g |
| Weight per piece (excluding packing) | 25.867 g |
| Customs tariff number | 85366990 |
| Country of origin | PL |



Downloaded from Arrow.com.

# 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 | 12 |
| Pitch | 7.62 mm |
| Number of connections | 12 |
| Number of rows | 1 |
| Number of potentials | 12 |
| 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 µm Sn) |
| Metal surface contact area (middle layer) | Nickel (2 - 5 µm Ni) |
| Metal surface soldering area (top layer) | Tin (5 - 10 µm Sn) |
| Metal surface soldering area (middle layer) | Nickel (2 - 5 µm Ni) |

### Material data - housing

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



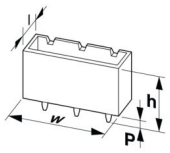
Downloaded from Arrow.com.

| | |
|---|---|
| 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] | 106.66 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) |



Downloaded from Arrow.com.

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

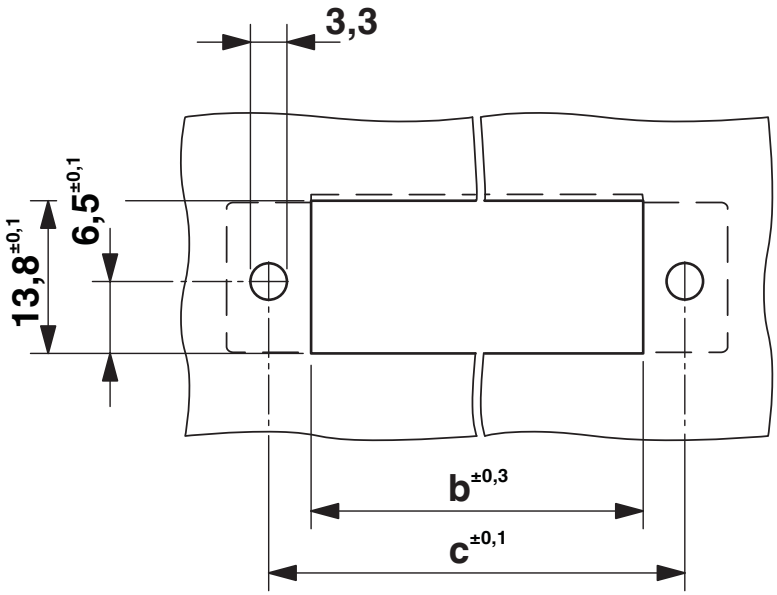
| | |
|---|---|
| Type of packaging | packed in cardboard |



Downloaded from Arrow.com.

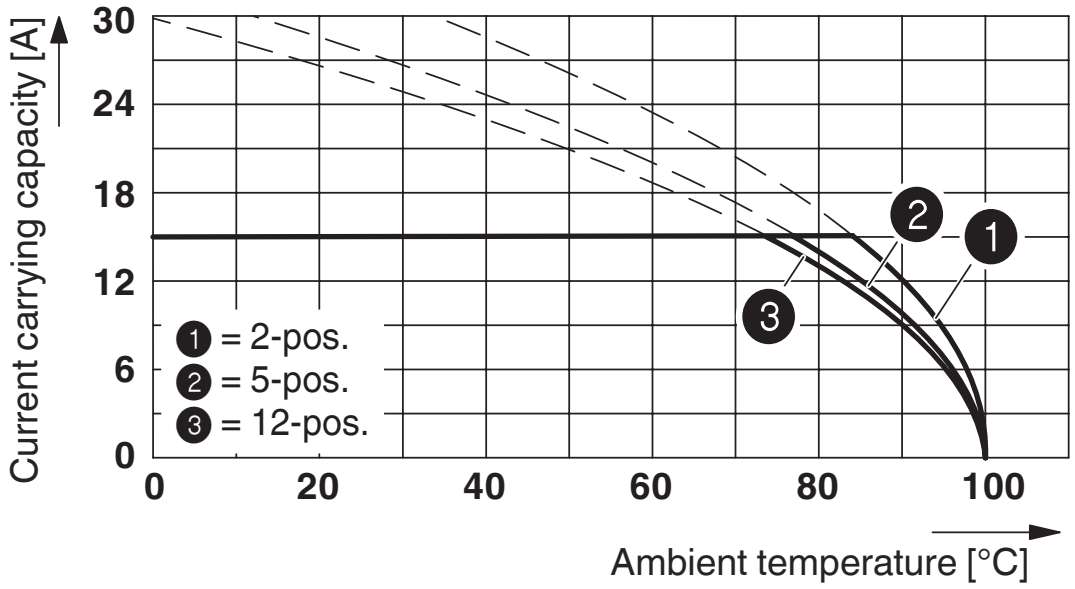
## Drawings

Dimensional drawing




Dimension b = 91.39 mm; dimension c = 99.06 mm

Diagram




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



Downloaded from Arrow.com.

## Approvals

To download certificates, visit the product detail page: https://www.phoenixcontact.com/us/products/1861251

**cULus Recognized**
Approval ID: E60425-19920722

| | Nominal voltage $U_N$ | Nominal current $I_N$ | Cross section AWG | Cross section $mm^2$ |
|---|---|---|---|---|
| B | | | | |
| For 600 V applications, additional insulation is required on the solder pins | 300 V | 20 A | - | - |
| C | | | | |
| For 600 V applications, additional insulation is required on the solder pins | 300 V | 20 A | - | - |

**CSA**
Approval ID: 2355836

| | Nominal voltage $U_N$ | Nominal current $I_N$ | Cross section AWG | Cross section $mm^2$ |
|---|---|---|---|---|
| B | | | | |
| | 300 V | 20 A | - | - |
| C | | | | |
| | 300 V | 20 A | - | - |



Downloaded from Arrow.com.

## Classifications

### ECLASS

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

### ETIM

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

### UNSPSC

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



Downloaded from Arrow.com.

## 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 | 0.367 kg CO2e |

Phoenix Contact 2025 © - all rights reserved
https://www.phoenixcontact.com

Phoenix Contact USA
586 Fulling Mill Road
Middletown, PA 17057, United States
(+717) 944-1300
info@phoenixcon.com



Downloaded from Arrow.com.