

# DFK-PC 4/ 3-G-7,62-LOE - Feed-through header



1830761

<https://www.phoenixcontact.com/pc/products/1830761>

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<sup>2</sup>, color: green, nominal current: 15 A, rated voltage (III/2): 400 V, contact surface: Tin, type of contact: Pin, number of potentials: 3, number of rows: 1, number of positions: 3, number of connections: 3, product range: DFK-PC 4/..-G - LOE, pitch: 7.62 mm, connection method: Solder connection, mounting: Soldering, pin layout: Linear pinning, solder pin [P]: 5.87 mm, number of solder pins per potential: 2, plug-in system: COMBICON PC 4, Pin connector pattern alignment: Standard, locking: without, mounting: without, type of packaging: packed in cardboard

## Your advantages

- Permanent solder connection prevents inadvertent loosening
- Space-saving connection
- Cable connection on the inside of the device enables flexible positioning of the panel feed-through

## Commercial Data

|                                      |                                |
|--------------------------------------|--------------------------------|
| Item number                          | 1830761                        |
| Packing unit                         | 50 pc                          |
| Minimum order quantity               | 1 pc                           |
| Note                                 | Made to Order (non-returnable) |
| Product Key                          | AADWBA                         |
| GTIN                                 | 4017918051402                  |
| Weight per Piece (including packing) | 6.816 g                        |
| Weight per Piece (excluding packing) | 6.184 g                        |
| Customs tariff number                | 85366990                       |
| Country of origin                    | PL                             |

# DFK-PC 4/ 3-G-7,62-LOE - Feed-through header



1830761

<https://www.phoenixcontact.com/pc/products/1830761>

## Technical Data

### Product properties

|                           |                       |
|---------------------------|-----------------------|
| Product line              | COMBICON Connectors L |
| Product type              | Feed-through header   |
| Product family            | DFK-PC 4/..-G -LOE    |
| Number of positions       | 3                     |
| Pitch                     | 7.62 mm               |
| Number of connections     | 3                     |
| Number of rows            | 1                     |
| Mounting flange           | without               |
| Number of potentials      | 3                     |
| Pin layout                | Linear pinning        |
| Solder pins per potential | 2                     |

### Electrical properties

|                             |       |
|-----------------------------|-------|
| Nominal current $I_N$       | 15 A  |
| Nominal voltage $U_N$       | 400 V |
| Degree of pollution         | 3     |
| Rated voltage (III/3)       | 400 V |
| Rated surge voltage (III/3) | 6 kV  |
| Rated voltage (III/2)       | 400 V |
| Rated surge voltage (III/2) | 6 kV  |
| Rated voltage (II/2)        | 800 V |
| Rated surge voltage (II/2)  | 6 kV  |

### Mounting

|                   |                   |
|-------------------|-------------------|
| Mounting type     | Soldering         |
| Pin layout        | Linear pinning    |
| Connection method | Solder connection |

### 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 - 7 $\mu\text{m}$ Sn)   |
| Metal surface contact area (middle layer)   | Nickel (2 - 3 $\mu\text{m}$ Ni)  |
| Metal surface soldering area (top layer)    | Tin (5 - 7 $\mu\text{m}$ Sn)   |
| Metal surface soldering area (middle layer) | Nickel (2 - 3 $\mu\text{m}$ Ni)  |

#### Material data - housing

|                 |              |
|-----------------|--------------|
| Color (Housing) | green (6021) |
|-----------------|--------------|

# DFK-PC 4/ 3-G-7,62-LOE - Feed-through header

1830761

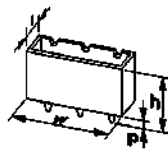
<https://www.phoenixcontact.com/pc/products/1830761>

|  |     |
|--|-----|
| Insulating material                    | PA  |
| 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]             | 38.08 mm   |
| Height [h]            | 14.25 mm   |
| Length [l]            | 34.87 mm   |
| Installed height      | 14.25 mm   |
| Solder pin length [P] | 5.87 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)                            | 6 kV                |
| minimum clearance value - non-homogenous field (III/3) | 5.5 mm              |
| minimum creepage distance (III/3)                      | 5.5 mm              |
| Rated insulation voltage (III/2)                       | 400 V               |
| Rated surge voltage (III/2)                            | 6 kV                |
| minimum clearance value - non-homogenous field (III/2) | 5.5 mm              |
| minimum creepage distance (III/2)                      | 5.5 mm              |
| Rated insulation voltage (II/2)                        | 800 V               |
| Rated surge voltage (II/2)                             | 6 kV                |
| minimum clearance value - non-homogenous field (II/2)  | 5.5 mm              |
| minimum creepage distance (II/2)                       | 5.5 mm              |

## Environmental and real-life conditions

### Ambient conditions

# DFK-PC 4/ 3-G-7,62-LOE - Feed-through header



1830761

<https://www.phoenixcontact.com/pc/products/1830761>

|   |   |
|---|---|
| Ambient temperature (operation)         | -40 °C ... 100 °C (dependent on the derating curve) |
| Ambient temperature (storage/transport) | -40 °C ... 70 °C                                    |
| Relative humidity (storage/transport)   | 30 % ... 70 %                                       |
| Ambient temperature (assembly)          | -5 °C ... 100 °C                                    |

# DFK-PC 4/ 3-G-7,62-LOE - Feed-through header



1830761

<https://www.phoenixcontact.com/pc/products/1830761>

## Approvals

To download certificates, visit the product detail page: <https://www.phoenixcontact.com/pc/products/1830761>



**EAC**

Approval ID: B.01687



**cULus Recognized**

Approval ID: E60425-19920722

|  | Nominal Voltage $U_N$ | Nominal Current $I_N$ | Cross Section AWG | Cross Section $\text{mm}^2$ |
|--|-----------------------|-----------------------|-------------------|-----------------------------|
| Use group B  |                       |                       |                   |                             |
| For 600 V applications, additional insulation is required on the solder pins | 300 V                 | 20 A                  | -                 | -                           |
| Use group C  |                       |                       |                   |                             |
| For 600 V applications, additional insulation is required on the solder pins | 300 V                 | 20 A                  | -                 | -                           |



**CSA**

Approval ID: 13631

|             | Nominal Voltage $U_N$ | Nominal Current $I_N$ | Cross Section AWG | Cross Section $\text{mm}^2$ |
|-------------|-----------------------|-----------------------|-------------------|-----------------------------|
| Use group B |                       |                       |                   |                             |
|             | 300 V                 | 20 A                  | -                 | -                           |
| Use group C |                       |                       |                   |                             |
|             | 300 V                 | 20 A                  | -                 | -                           |

# DFK-PC 4/ 3-G-7,62-LOE - Feed-through header



1830761

<https://www.phoenixcontact.com/pc/products/1830761>

## Classifications

### ECLASS

|             |          |
|-------------|----------|
| ECLASS-11.0 | 27460201 |
| ECLASS-12.0 | 27460201 |
| ECLASS-13.0 | 27460201 |

### ETIM

|          |          |
|----------|----------|
| ETIM 8.0 | EC002637 |
|----------|----------|

### UNSPSC

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

# DFK-PC 4/ 3-G-7,62-LOE - Feed-through header



1830761

<https://www.phoenixcontact.com/pc/products/1830761>

## Environmental Product Compliance

|            |   |
|------------|---|
| China RoHS | Environmentally friendly use period: unlimited = EFUP-e |
|            | No hazardous substances above threshold values          |

# DFK-PC 4/ 3-G-7,62-LOE - Feed-through header



1830761

<https://www.phoenixcontact.com/pc/products/1830761>

## Accessories

### DFK-MSTB-SS - Screw set

0708263

<https://www.phoenixcontact.com/pc/products/0708263>



Screw set, for securing the header to the device wall, consists of an M3 x 10 screw, with a spring washer and a nut

---

### CP-PC RD - Coding profile

1701967

<https://www.phoenixcontact.com/pc/products/1701967>



Coding profile, for plugging into the coding ribs of the plug at a later date, insulating material, color: Red



# DFK-PC 4/ 3-G-7,62-LOE - Feed-through header

1830761

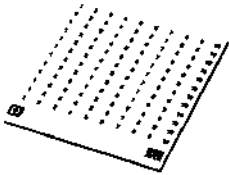
<https://www.phoenixcontact.com/pc/products/1830761>



## SK 7,62/3,8:FORTL.ZAHLEN - Marker card

0804549

<https://www.phoenixcontact.com/pc/products/0804549>



Marker card, white, labeled, horizontal: consecutive numbers 1 ... 10, 11 ... 20, etc. up to 91 ... 100, mounting type: adhesive, for terminal block width: 7.62 mm, lettering field size: 7.62 x 3.8 mm

---

## SZS 0,6X3,5 - Screwdriver

1205053

<https://www.phoenixcontact.com/pc/products/1205053>



Actuation tool, for ST terminal blocks, insulated, also suitable for use as a bladed screwdriver, size: 0.6 x 3.5 x 100 mm, 2-component grip, with non-slip grip

# DFK-PC 4/ 3-G-7,62-LOE - Feed-through header



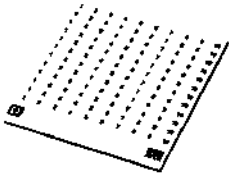
1830761

<https://www.phoenixcontact.com/pc/products/1830761>

## SK 3,8 REEL P7,62 WH CUS - Marker card

0825128

<https://www.phoenixcontact.com/pc/products/0825128>



Marker card, can be ordered: by card, white, labeled according to customer specifications, mounting type: adhesive, for terminal block width: 7.62 mm, lettering field size: continuous x 3.8 mm

---

## SK U/3,8 WH:UNBEDRUCKT - Marker card

0803906

<https://www.phoenixcontact.com/pc/products/0803906>



Marker card, Din A4, white, unlabeled, can be labeled with: PLOTMARK, CMS-P1-PLOTTER, Office printing systems, mounting type: adhesive, for terminal block width: 210 mm, lettering field size: 186 x 3.8 mm, Number of individual labels: 1440

# DFK-PC 4/ 3-G-7,62-LOE - Feed-through header



1830761

<https://www.phoenixcontact.com/pc/products/1830761>

## SK 3,8 WH:REEL - Marker strip

0805218

<https://www.phoenixcontact.com/pc/products/0805218>



Marker strip, Roll, white, unlabeled, can be labeled with: THERMOMARK E.300 (D)/600 (D), THERMOMARK ROLL 2.0, THERMOMARK ROLL, THERMOMARK ROLL X1, THERMOMARK ROLLMASTER 300/600, THERMOMARK X1.2, mounting type: adhesive, for terminal block width: 90000 mm, lettering field size: continuous x 3.8 mm, Number of individual labels: 210000

---

## PC 4/ 3-ST-7,62 - PCB connector

1804917

<https://www.phoenixcontact.com/pc/products/1804917>



PCB connector, nominal cross section: 4 mm<sup>2</sup>, color: green, nominal current: 20 A, rated voltage (III/2): 630 V, contact surface: Tin, type of contact: Socket, number of potentials: 3, number of rows: 1, number of positions: 3, number of connections: 3, product range: PC 4/..-ST, pitch: 7.62 mm, connection method: Screw connection with tension sleeve, screw head form: L Slotted, conductor/PCB connection direction: 0 °, locking clip: - Locking clip, plug-in system: COMBICON PC 4, locking: without, mounting: without, type of packaging: packed in cardboard

# DFK-PC 4/ 3-G-7,62-LOE - Feed-through header



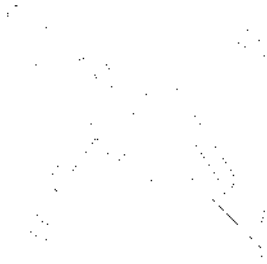
1830761

<https://www.phoenixcontact.com/pc/products/1830761>

## PCC 4/ 3-ST-7,62 - PCB connector

1840188

<https://www.phoenixcontact.com/pc/products/1840188>



PCB connector, nominal cross section: 4 mm<sup>2</sup>, color: green, nominal current: 20 A, rated voltage (III/2): 1000 V, type of contact: Socket, number of potentials: 3, number of rows: 1, number of positions: 3, number of connections: 3, product range: PCC 4/...-ST, pitch: 7.62 mm, connection method: Crimp connection, conductor/PCB connection direction: 0 °, locking clip: - Locking clip, plug-in system: COMBICON PC 4, locking: without, mounting: without, type of packaging: packed in cardboard, Corresponding female crimp contacts with current [A] and conductor cross section range [mm<sup>2</sup>] data: 13,5A/STG-MTN 0,5-1,0 (3190438); 13,5A/STG-MTN 0,5-1,0 BA (3190629); 20A/STG-MTN 1,5-2,5 (3190506); 20A/STG-MTN 1,5-2,5 BA (3190632). BA = Taped contacts

---

Phoenix Contact 2023 © - all rights reserved

<https://www.phoenixcontact.com>

PHOENIX CONTACT GmbH & Co. KG

Flachsmarktstraße 8

D-32825 Blomberg

+49 (0) 5235-3 00

[info@phoenixcontact.com](mailto:info@phoenixcontact.com)