

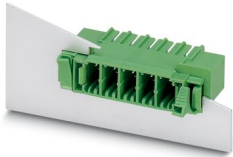
# DFK-PC 5/ 9-G-7,62 - Feed-through header



1727650

<https://www.phoenixcontact.com/us/products/1727650>

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Feed-through header, nominal cross section: 6 mm<sup>2</sup>, color: green, nominal current: 32 A, rated voltage (III/2): 630 V, contact surface: Sn, contact connection type: Pin, number of potentials: 9, number of rows: 1, number of positions: 9, number of connections: 9, product range: DFK-PC 5/..-G, pitch: 7.62 mm, mounting: Wave soldering, pin layout: Linear pinning, solder pin [P]: 4.9 mm, number of solder pins per potential: 3, plug-in system: COMBICON PC 5, Pin connector pattern alignment: Standard, locking: without, mounting method: without, type of packaging: packed in cardboard

## Your advantages

- Well-known mounting principle allows worldwide use
- Flange system enables secure fixing to the housing panel by means of tool-free snap-in locking or screws

## Commercial data

|                                      |                                |
|--------------------------------------|--------------------------------|
| Item number                          | 1727650                        |
| Packing unit                         | 10 pc                          |
| Minimum order quantity               | 10 pc                          |
| Note                                 | Made to order (non-returnable) |
| Sales key                            | AA04                           |
| Product key                          | AADWDA                         |
| GTIN                                 | 4046356135818                  |
| Weight per piece (including packing) | 28.12 g                        |
| Weight per piece (excluding packing) | 22.61 g                        |
| Customs tariff number                | 85366990                       |
| Country of origin                    | SK                             |

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## Technical data

### Product properties

|                           |                       |
|---------------------------|-----------------------|
| Product type              | Feed-through header   |
| Product family            | DFK-PC 5/...-G        |
| Product line              | COMBICON Connectors L |
| Type                      | Feed-through header   |
| Number of positions       | 9                     |
| Pitch                     | 7.62 mm               |
| Number of connections     | 9                     |
| Number of rows            | 1                     |
| Number of potentials      | 9                     |
| Mounting type             | without               |
| Pin layout                | Linear pinning        |
| Solder pins per potential | 3                     |

### Electrical properties

#### Properties

|                             |       |
|-----------------------------|-------|
| Nominal current $I_N$       | 32 A  |
| Nominal voltage $U_N$       | 630 V |
| Rated voltage (III/3)       | 500 V |
| Rated surge voltage (III/3) | 6 kV  |
| Rated voltage (III/2)       | 630 V |
| Rated surge voltage (III/2) | 6 kV  |
| Rated voltage (II/2)        | 800 V |
| Rated surge voltage (II/2)  | 6 kV  |

### Mounting

|               |                |
|---------------|----------------|
| Mounting type | Wave soldering |
| Pin layout    | Linear pinning |

### 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                  | hot-dip tin-plated                                                               |
| Metal surface contact area (top layer)   | Tin (4 - 8 $\mu$ m Sn)                                                           |
| Metal surface soldering area (top layer) | Tin (4 - 8 $\mu$ m Sn)                                                           |

#### Material data - housing

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

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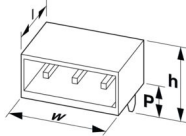
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|                                                                   |        |
|-------------------------------------------------------------------|--------|
| Insulating material group                                         | I      |
| CTI according to IEC 60112                                        | 600    |
| Flammability rating according to UL 94                            | V0     |
| Glow wire flammability index GWFI according to EN 60695-2-12      | 850    |
| Glow wire ignition temperature GWIT according to EN 60695-2-13    | 775    |
| Temperature for the ball pressure test according to EN 60695-10-2 | 125 °C |

## 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]             | 94.08 mm                                                                            |
| Height [h]            | 21.1 mm                                                                             |
| Length [l]            | 41.65 mm                                                                            |
| Installed height      | 19.54 mm                                                                            |
| Solder pin length [P] | 4.9 mm                                                                              |
| Pin dimensions        | 1 x 0.8 mm                                                                          |

## PCB design

|               |         |
|---------------|---------|
| Pin spacing   | 7.62 mm |
| Hole diameter | 1.3 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)                       | 500 V               |
| Rated surge voltage (III/3)                            | 6 kV                |
| minimum clearance value - non-homogenous field (III/3) | 5.5 mm              |
| minimum creepage distance (III/3)                      | 6.3 mm              |
| Rated insulation voltage (III/2)                       | 630 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              |

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

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

## Packaging specifications

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

## Packaging specifications

|                   |                     |
|-------------------|---------------------|
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## Approvals

To download certificates, visit the product detail page: <https://www.phoenixcontact.com/us/products/1727650>

|                                                                                                                                                       |                       |                       |                   |                             |
|-------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------|-----------------------|-------------------|-----------------------------|
| <div> <b>cULus Recognized</b><br/>Approval ID: E60425-19920722</div> |                       |                       |                   |                             |
|                                                                                                                                                       | Nominal voltage $U_N$ | Nominal current $I_N$ | Cross section AWG | Cross section $\text{mm}^2$ |
| B                                                                                                                                                     |                       |                       |                   |                             |
|                                                                                                                                                       | 300 V                 | 41 A                  | -                 | -                           |
| C                                                                                                                                                     |                       |                       |                   |                             |
|                                                                                                                                                       | 150 V                 | 41 A                  | -                 | -                           |
| D                                                                                                                                                     |                       |                       |                   |                             |
|                                                                                                                                                       | 300 V                 | 10 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%               |

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