

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



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

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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: Tin, 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: 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
Sales key	AA04
Product key	AADWAA
Catalog page	Page 519 (C-1-2013)
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

## 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 flange	without
Solder pins per potential	1

### Electrical properties

Nominal current $I_N$	15 A
Nominal voltage $U_N$	400 V
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	Direct mounting
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### 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 - 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)
Insulating material	PA
Insulating material group	I
CTI according to IEC 60112	600

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Flammability rating according to UL 94

V2

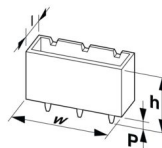
## Notes

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)

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

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 %

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Ambient temperature (assembly)	-5 °C ... 100 °C
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## Packaging specifications

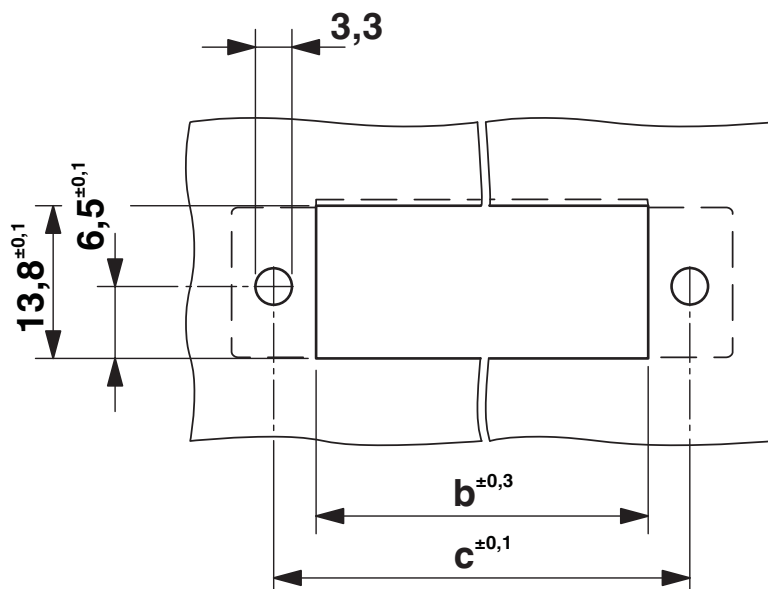
Type of packaging	packed in cardboard
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## Packaging specifications

Type of packaging	packed in cardboard
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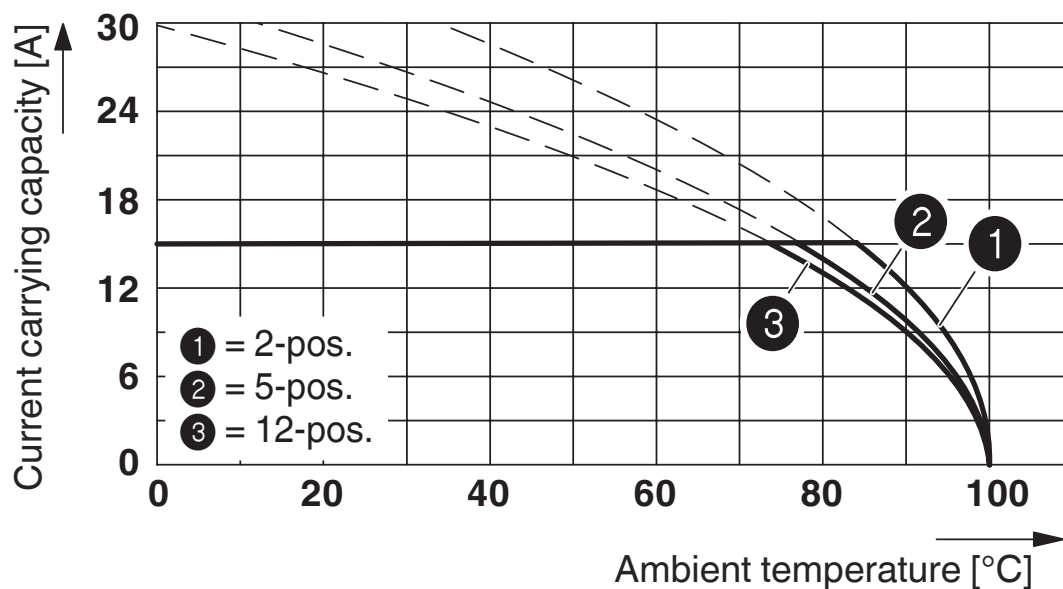
## Drawings

Dimensional drawing



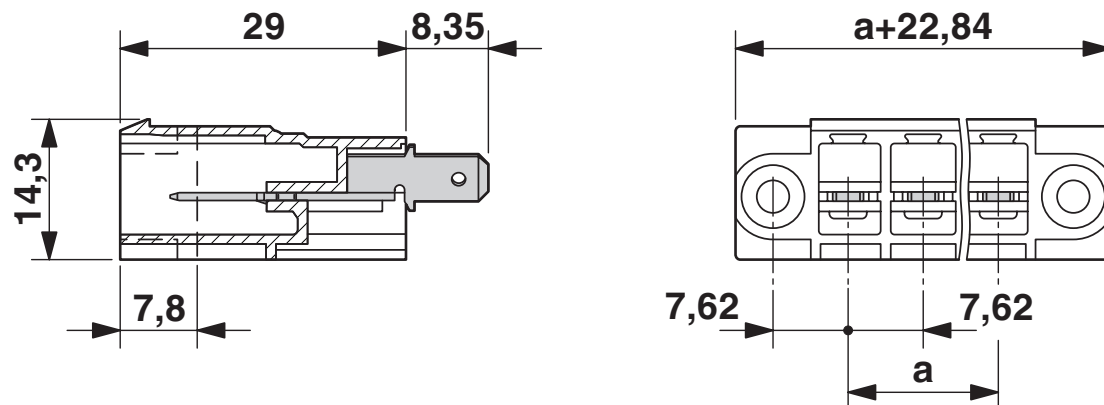
Dimension b = 91.39 mm; dimension c = 99.06 mm

Diagram



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

## Dimensional drawing



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





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## Approvals

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

 <b>cULus Recognized</b> 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	-	-

 <b>CSA</b> 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	-	-

Classifications

ECLASS

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

ETIM

ETIM 9.0	EC002637
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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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## Accessories

### DFK-MSTB-SS - Screw set

0708263

<https://www.phoenixcontact.com/us/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

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### CP-PC RD - Coding profile

1701967

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



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

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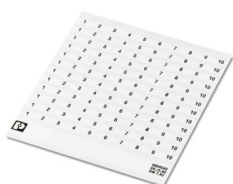
<https://www.phoenixcontact.com/us/products/1861251>



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

0804549

<https://www.phoenixcontact.com/us/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

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## SZS 0,6X3,5 - Screwdriver

1205053

<https://www.phoenixcontact.com/us/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

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

0825128

<https://www.phoenixcontact.com/us/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

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

0803906

<https://www.phoenixcontact.com/us/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

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

0805218

<https://www.phoenixcontact.com/us/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, lettering field size: continuous x 3.8 mm, Number of individual labels: 12

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### C-SCF 1,5/4,8X0,8 - Connector

3240155

<https://www.phoenixcontact.com/us/products/3240155>



Slip-on sleeve, non-insulated, 0.75 ... 1.5 mm<sup>2</sup>, 4.8 x 0.8

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## C-SCFI 1,5/4,8X0,8 - Connector

3240051

<https://www.phoenixcontact.com/us/products/3240051>



Slip-on sleeve, red, 0.5 ... 1.5 mm<sup>2</sup>, 4.8 x 0.8

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## C-SCFFI 1,5/4,8X0,8 - Connector

3240537

<https://www.phoenixcontact.com/us/products/3240537>



Slip-on sleeve, fully isolated, red, 0.5 ... 1.5 mm<sup>2</sup>, for plug 4.8 x 0.8 mm

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## C-SCF 2,5/4,8X0,8 - Connector

3240158

<https://www.phoenixcontact.com/us/products/3240158>



Slip-on sleeve, non-insulated, 1.5 ... 2.5 mm<sup>2</sup>, 4.8 x 0.8

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## C-SCFI 2,5/4,8X0,8 - Connector

3240054

<https://www.phoenixcontact.com/us/products/3240054>



Slip-on sleeve, blue, 1.5 ... 2.5 mm<sup>2</sup>, 4.8 x 0.8

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## C-SCFFI 2,5/4,8X0,8 - Connector

3240540

<https://www.phoenixcontact.com/us/products/3240540>



Slip-on sleeve, fully isolated, blue, 1.5 ... 2.5 mm<sup>2</sup>, for plug 4.8 x 0.8 mm

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## PC 4/12-ST-7,62 - PCB connector

1805000

<https://www.phoenixcontact.com/us/products/1805000>



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, contact connection type: Socket, number of potentials: 12, number of rows: 1, number of positions: 12, number of connections: 12, 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

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## PCC 4/12-ST-7,62 - PCB connector

1840094

<https://www.phoenixcontact.com/us/products/1840094>



PCB connector, nominal cross section: 4 mm<sup>2</sup>, color: green, nominal current: 20 A, rated voltage (III/2): 1000 V, contact connection type: Socket, number of potentials: 12, number of rows: 1, number of positions: 12, number of connections: 12, 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

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