

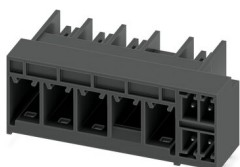
# PCH 6/ 4+4-GL4-7,62 BK - Printed-circuit board connector



1098839

<https://www.phoenixcontact.com/us/products/1098839>

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PCB hybrid header, nominal cross section: 6 mm<sup>2</sup>, color: black, nominal current: 41 A, 8 A, rated voltage (III/2): 630 V, contact surface: Tin, contact connection type: Pin, number of potentials: 8, number of rows: 1, number of positions: 8, number of connections: 8, product range: PCH 6/..+4-GL, pitch: 7.62 mm, mounting: Wave soldering, pin layout: Linear pinning, solder pin [P]: 3.1 mm, plug-in system: COMBICON PC 6 hybrid, Pin connector pattern alignment: Standard, locking: Snap-in locking, mounting: Self-locking flange, type of packaging: packed in cardboard

## Your advantages

- Combining signals and power in a single header saves time and space
- Intuitive locking mechanism prevents accidental disconnection
- Easy PCB replacement thanks to plug-in modules
- Well-known mounting principle allows worldwide use

## Commercial data

Item number	1098839
Packing unit	1 pc
Minimum order quantity	50 pc
Note	Made to order (non-returnable)
Sales key	AA04
Product key	AADSDE
GTIN	4055626946030
Weight per piece (including packing)	13.974 g
Weight per piece (excluding packing)	13.5 g
Customs tariff number	85366930
Country of origin	CN

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## Technical data

### Product properties

Product line	COMBICON Connectors L
Product type	PCB hybrid header
Product family	PCH 6/..+4-GL
Number of positions	8
Pitch	7.62 mm
Number of connections	8
Number of rows	1
	2
Number of potentials	8
Pin layout	Linear pinning

### Electrical properties

Nominal current $I_N$	41 A
Nominal voltage $U_N$	630 V
Degree of pollution	3
Rated voltage (III/3)	630 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)	1000 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	Tin-plated
Metal surface contact area (top layer)	Tin (2 - 4 $\mu\text{m}$ Sn)
Metal surface contact area (middle layer)	Nickel (1.3 - 3 $\mu\text{m}$ Ni)
Metal surface soldering area (top layer)	Tin (2 - 4 $\mu\text{m}$ Sn)
Metal surface soldering area (middle layer)	Nickel (1.3 - 3 $\mu\text{m}$ Ni)

#### Material data - housing

Color (Housing)	black (9005)
Insulating material	PA GF
Insulating material group	I

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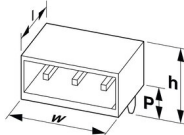
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CTI according to IEC 60112	600
Flammability rating according to UL 94	V0

## 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.
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## Dimensions

Dimensional drawing	
Pitch	7.62 mm
Width [w]	47.25 mm
Height [h]	19.5 mm
Length [l]	28.2 mm
Installed height	16.4 mm
Solder pin length [P]	3.1 mm
	3.1 mm
Pin dimensions	1 x 1.2 mm

PCB design	
Hole diameter	1.7 mm
	1.4 mm

## Electrical tests

### Air clearances and creepage distances | Power

Specification	IEC 60664-1:2007-04
Insulating material group	I
Comparative tracking index (IEC 60112)	CTI 600
Rated insulation voltage (III/3)	630 V
Rated surge voltage (III/3)	6 kV
minimum clearance value - non-homogenous field (III/3)	5.5 mm
minimum creepage distance (III/3)	8 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
Rated insulation voltage (II/2)	1000 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

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## Air clearances and creepage distances | Signal

Specification	IEC 60664-1:2007-04
Insulating material group	I
Comparative tracking index (IEC 60112)	CTI 600
Rated insulation voltage (III/3)	160 V
Rated surge voltage (III/3)	2.5 kV
minimum clearance value - non-homogenous field (III/3)	1.5 mm
minimum creepage distance (III/3)	2 mm
Rated insulation voltage (III/2)	160 V
Rated surge voltage (III/2)	2.5 kV
minimum clearance value - non-homogenous field (III/2)	1.5 mm
minimum creepage distance (III/2)	1.5 mm
Rated insulation voltage (II/2)	320 V
Rated surge voltage (II/2)	2.5 kV
minimum clearance value - non-homogenous field (II/2)	1.5 mm
minimum creepage distance (II/2)	1.6 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
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## Approvals

To download certificates, visit the product detail page: <https://www.phoenixcontact.com/us/products/1098839>

 <b>VDE Zeichengenehmigung</b> Approval ID: 40050635				
	Nominal voltage $U_N$	Nominal current $I_N$	Cross section AWG	Cross section $\text{mm}^2$
Power	630 V	41 A	-	-
Signal	160 V	8 A	-	-

 <b>cULus Recognized</b> Approval ID: E60425-20010727				
	Nominal voltage $U_N$	Nominal current $I_N$	Cross section AWG	Cross section $\text{mm}^2$
Use group B				
Power	300 V	35 A	-	-
Signal	300 V	8 A	-	-
Use group C				
Power	300 V	35 A	-	-
Use group F				
Power	600 V	35 A	-	-
Signal	160 V	8 A	-	-

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## Classifications

### ECLASS

ECLASS-11.0	27460301
ECLASS-12.0	27460301
ECLASS-13.0	27460301

### ETIM

ETIM 8.0	EC002643
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### UNSPSC

UNSPSC 21.0	39121400
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## Environmental product compliance

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

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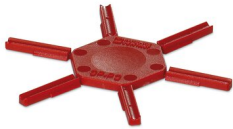
## Accessories

### 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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