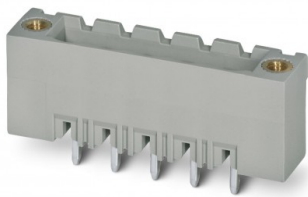


## INDUSTRIAL COMPONENT DATA

# BCH-500VF-20 BK 5452491 PHOENIX CONTACT

## Printed-circuit board connector

Brand: PHOENIX CONTACT | Manufacturer Part Number: BCH-500VF-20 BK



|                 |                                 |
|-----------------|---------------------------------|
| Manufacturer    | PHOENIX CONTACT                 |
| MPN / Reference | BCH-500VF-20 BK                 |
| Catalog number  | 5452491                         |
| Category        | Printed circuit board connector |
| Minimum order   | 100 Pcs                         |
| Document ID     | EO-01D7F3F4BB                   |
| Generated       | 2026-08-05                      |

### Product Overview

Printed-circuit board connector

Printed circuit board base housing, nominal section: 2.5 mm<sup>2</sup>, color: black, nominal current: 12 A, nominal voltage (III/2): 320 V, contact surface: Tin, contact type: Male, number of potentials: 20, number of rows: 1, number of poles: 20, number of connections: 20, article family: BCH-VF, pitch: 5 mm, mounting: Wave soldering, Pin arrangement: Linear pin arrangement, pin length [P]: 3.9 mm, number of solder pins per potential: 1, plug-in system: BASICLINE 2.5, Plug-in face orientation: Standard, lock: Screw lock, fastening type: Air clamping (thread), packaging type: boxed

PCB headers, nominal cross section: 2.5 mm<sup>2</sup>, color: black, nominal current: 12 A, rated voltage (III/2): 320 V, contact surface: Sn, contact connection type: Pin, number of potentials: 20, number of rows: 1, number of positions: 20, number of connections: 20, product range: BCH-VF, pitch: 5 mm, mounting: Wave soldering, pin layout: Linear pinning, solder pin [P]: 3.9 mm, number of solder pins per potential: 1, plug-in system: BASICLINE 2,5, Pin connector pattern alignment: Standard, locking: Screw locking mechanism, mounting: Threaded flange, type of packaging: packed in cardboard

## STRUCTURED PRODUCT DATA

### Technical Specifications

No structured technical attributes are currently available. Submit an RFQ for technical review.

### Classification & Catalog Path

|              |                                        |
|--------------|----------------------------------------|
| Catalog path | PHOENIX CONTACT > PCB Connectors (PCC) |
|--------------|----------------------------------------|

### Additional Product Information

Technical dataProduct propertiesProduct type PCB headers

Product family BCH-VF

Product line COMBICON Connectors M

Type Standard

Number of positions 20

Pitch 5 mm  
Number of connections 20  
Number of rows 1  
Number of potentials 20  
Mounting flange Threaded flange  
Pin layout Linear pinning  
Solder pins per potential 1  
Data management status  
Article revision 02  
Electrical propertiesNominal current IN 12 A  
Nominal voltage UN 320 V  
Contact resistance 3.7 m?  
Rated voltage (III/3) 250 V  
Rated surge voltage (III/3) 4 kV  
Rated voltage (III/2) 320 V  
Rated surge voltage (III/2) 4 kV  
Rated voltage (II/2) 400 V  
Rated surge voltage (II/2) 4 kV  
MountingMounting type Wave soldering  
Pin layout Linear pinning  
Flange  
Tightening torque 0.3 Nm  
Material specificationsMaterial 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 (4 - 8 µm Sn)  
Metal surface contact area (middle layer) Nickel (1.5 - 4 µm Ni)  
Metal surface soldering area (top layer) Tin (4 - 8 µm Sn)  
Metal surface soldering area (middle layer) Nickel (1.5 - 4 µm Ni)  
Material data - housing  
Color (Housing) black (9005)  
Insulating material PA  
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...

## REQUEST PRICE, AVAILABILITY & TECHNICAL REVIEW

Send PHOENIX CONTACT / BCH-500VF-20 BK with the required quantity to [info@electricaonline.com](mailto:info@electricaonline.com) or use [electricaonline.com/request-quote](https://electricaonline.com/request-quote).

### GLOBAL OFFICES

Germany: Lise-Meitner-Straße 13, 89081 Ulm | USA: 16225 Park Ten Pl #500, Houston, TX 77084 | UAE: HDS Business Centre Tower, Cluster M, 33rd Floor, JLT, Dubai

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