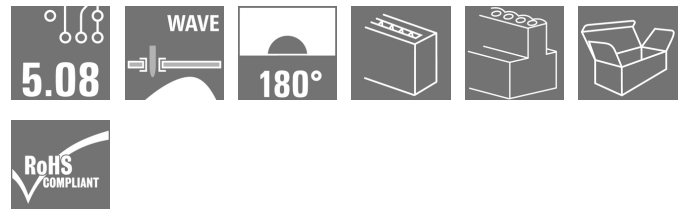
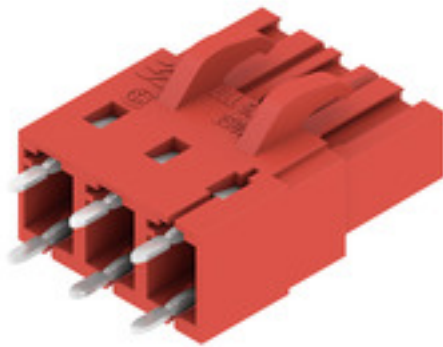


**BLL 5.08/03/180 3.2 SN RD BX****Weidmüller Interface GmbH & Co. KG**

Klingenbergstraße 26

D-32758 Detmold

Germany

[www.weidmueller.com](http://www.weidmueller.com)**Product image**

Female header for PCB mounting. The solder pin length is optimised for wave flow soldering.

**General ordering data**

|              |                                                                                                                                                      |
|--------------|------------------------------------------------------------------------------------------------------------------------------------------------------|
| Version      | PCB plug-in connector, female header, closed side, THT solder connection, 5.08 mm, Number of poles: 3, 180°, Solder pin length (l): 3.2 mm, red, Box |
| Order No.    | <a href="#">1510920000</a>                                                                                                                           |
| Type         | BLL 5.08/03/180 3.2 SN RD BX                                                                                                                         |
| GTIN (EAN)   | 4050118319897                                                                                                                                        |
| Qty.         | 120 pc(s).                                                                                                                                           |
| Product data | IEC: 400 V / 23 A<br>UL: 300 V / 15 A                                                                                                                |
| Packaging    | Box                                                                                                                                                  |

Creation date March 24, 2021 3:50:24 AM CET

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## Technical data

## Dimensions and weights

|            |        |
|------------|--------|
| Net weight | 2.67 g |
|------------|--------|

## System specifications

|                                           |                                     |                                              |                        |
|-------------------------------------------|-------------------------------------|----------------------------------------------|------------------------|
| Product family                            | OMNIMATE Signal - series BL/SL 5.08 | Type of connection                           | Board connection       |
| Mounting onto the PCB                     | THT solder connection               | Pitch in mm (P)                              | 5.08 mm                |
| Pitch in inches (P)                       | 0.2 inch                            | Outgoing elbow                               | 180°                   |
| Number of poles                           | 3                                   | Number of solder pins per pole               | 2                      |
| Solder pin length (l)                     | 3.2 mm                              | Solder pin length tolerance                  | +0.1 / -0.3 mm         |
| Solder pin dimensions                     | 0.4 x 1.00 mm                       | Solder eyelet hole diameter (D)              | 1.3 mm                 |
| Solder eyelet hole diameter tolerance (D) | + 0.1 mm                            | L1 in mm                                     | 10.16 mm               |
| L1 in inches                              | 0.4 inch                            | Number of rows                               | 1                      |
| Pin series quantity                       | 1                                   | Touch-safe protection acc. to DIN VDE 57 106 | Safe from finger touch |
| Volume resistance                         | ≤5 mΩ                               | Can be coded                                 | Yes                    |
| Plugging cycles                           | 25                                  | Plugging force/pole, max.                    | 5 N                    |
| Pulling force/pole, max.                  | 5 N                                 |                                              |                        |

## Material data

|                                       |                            |                                       |                            |
|---------------------------------------|----------------------------|---------------------------------------|----------------------------|
| Insulating material                   | PBT GF                     | Colour                                | red                        |
| Colour chart (similar)                | RAL 3020                   | Insulating material group             | IIIa                       |
| Comparative Tracking Index (CTI)      | ≥ 200                      | Insulation strength                   | ≥ 10 <sup>8</sup> Ω        |
| UL 94 flammability rating             | V-0                        | Contact material                      | Copper alloy               |
| Layer structure of solder connection  | 4...6 µm Sn hot-dip tinned | Layer structure of plug contact       | 4...6 µm Sn hot-dip tinned |
| Storage temperature, min.             | -40 °C                     | Storage temperature, max.             | 70 °C                      |
| Operating temperature, min.           | -50 °C                     | Operating temperature, max.           | 100 °C                     |
| Temperature range, installation, min. | -25 °C                     | Temperature range, installation, max. | 100 °C                     |

## Rated data acc. to IEC

|                                                                           |                        |                                                                       |                   |
|---------------------------------------------------------------------------|------------------------|-----------------------------------------------------------------------|-------------------|
| tested acc. to standard                                                   | IEC 60664-1, IEC 61984 | Rated current, min. number of poles (Tu=20°C)                         | 23 A              |
| Rated current, max. number of poles (Tu=20°C)                             | 16 A                   | Rated current, min. number of poles (Tu=40°C)                         | 20 A              |
| Rated current, max. number of poles (Tu=40°C)                             | 14 A                   | Rated voltage for surge voltage class / pollution degree II/2         | 400 V             |
| Rated voltage for surge voltage class / pollution degree III/2            | 320 V                  | Rated voltage for surge voltage class / pollution degree III/3        | 250 V             |
| Rated impulse voltage for surge voltage class/ pollution degree II/2      | 4 kV                   | Rated impulse voltage for surge voltage class/ pollution degree III/2 | 4 kV              |
| Rated impulse voltage for surge voltage class/ contamination degree III/3 | 4 kV                   | Short-time withstand current resistance                               | 3 x 1s with 120 A |

## Rated data acc. to CSA

|                                   |       |                                   |       |
|-----------------------------------|-------|-----------------------------------|-------|
| Rated voltage (Use group B / CSA) | 300 V | Rated voltage (Use group D / CSA) | 300 V |
| Rated current (Use group B / CSA) | 15 A  | Rated current (Use group D / CSA) | 10 A  |

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**Technical data****Rated data acc. to UL 1059**

Institute (UR)



Certificate No. (UR)

E60693

Rated voltage (Use group B / UL 1059) 300 V

Rated voltage (Use group D / UL 1059) 300 V

Rated current (Use group B / UL 1059) 15 A

Rated current (Use group D / UL 1059) 10 A

Reference to approval values

Specifications are maximum values, details - see approval certificate.

**Packing**

Packaging

Box

VPE length

0 m

VPE width

0 m

VPE height

0 m

**Classifications**

ETIM 6.0

EC002638

ETIM 7.0

EC002638

ECLASS 9.0

27-44-03-09

ECLASS 9.1

27-44-03-09

ECLASS 10.0

27-44-03-09

ECLASS 11.0

27-46-02-02

**Important note**

IPC conformity

Conformity: The products are developed, manufactured and delivered according international recognized standards and norms and comply with the assured properties in the data sheet resp. fulfill decorative properties in accordance with IPC-A-610 "Class 2". Further claims on the products can be evaluated on request.

Notes

- Additional colours on request
- Gold-plated contact surfaces on request
- Rated current related to rated cross-section & min. No. of poles.
- P on drawing = pitch
- Rated data refer only to the component itself. Clearance and creepage distances to other components are to be designed in accordance with the relevant application standards.
- Long term storage of the product with average temperature of 50 °C and average humidity 70%, 36 months

**Approvals**

Approvals



ROHS

Conform

UL File Number Search

E60693

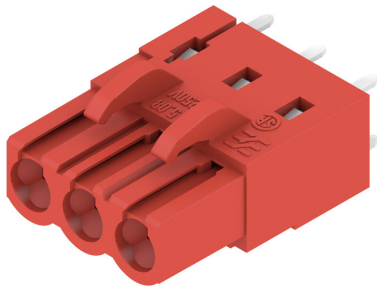
## BLL 5.08/03/180 3.2 SN RD BX

**Weidmüller Interface GmbH & Co. KG**  
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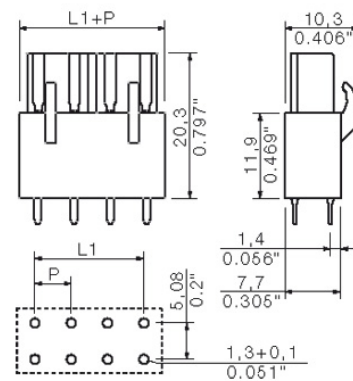
[www.weidmueller.com](http://www.weidmueller.com)

# Drawings

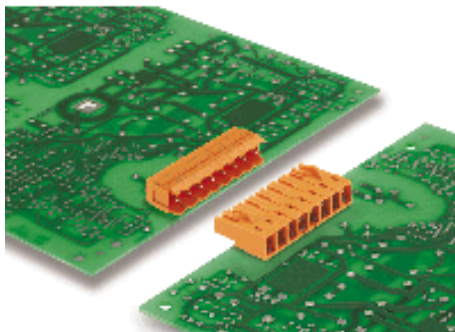
## Product image



## Dimensional drawing



## Example of use



## Recommended wave soldering profiles

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### Single Wave:



### Double Wave:



### Wave soldering profiles

Wired connection elements should be processed in accordance with the DIN EN 61760-1 standard. We have included two recommendations for practical wave soldering profiles, with which Weidmüller PCB terminals and connectors are qualified.

When choosing a suitable profile for your application, the following factors also need to be considered:

- PCB thickness
- Proportion of Cu in the layers
- Single/double-sided assembly
- Product range
- Heating and cooling rates

The single and double wave profiles each indicate the recommended operating range, including the maximum soldering temperature of 260°C. In practice, the maximum soldering temperature is quite often well below the above maximum profile.

We reserve the right to make technical changes.