

**BLZ 5.08/04/180 SN OR BX**
**Weidmüller Interface GmbH & Co. KG**

Klingenbergstraße 26

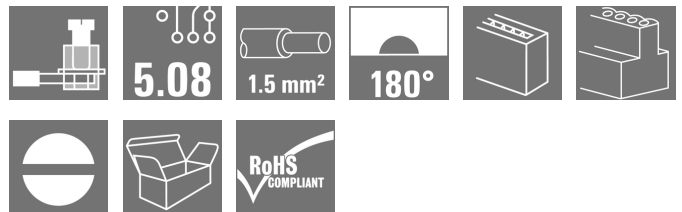
D-32758 Detmold

Germany

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


Similar to illustration

Do not use product for new developments



Female plugs with clamping-yoke screw for wire connection with straight (180°) outlet direction. The female plugs provide space for labelling and can be coded.

**General ordering data**

|              |                                                                                                                                       |
|--------------|---------------------------------------------------------------------------------------------------------------------------------------|
| Version      | PCB plug-in connector, female plug, 5.08 mm, Number of poles: 4, 180°, Clamping yoke connection, Clamping range, max. : 3.31 mm², Box |
| Order No.    | <a href="#">1526660000</a>                                                                                                            |
| Type         | BLZ 5.08/04/180 SN OR BX                                                                                                              |
| GTIN (EAN)   | 4008190148232                                                                                                                         |
| Qty.         | 100 pc(s).                                                                                                                            |
| Product data | IEC: 400 V / 19 A / 0.2 - 2.5 mm²<br>UL: 300 V / 15 A / AWG 26 - AWG 12                                                               |
| Packaging    | Box                                                                                                                                   |

Delivery status: **This article will no longer be available in the future.**  
 Creation date March 24, 2021 4:47:10 AM CET

Available until 2023-12-31

Alternative product [1943600000](#)

Catalogue status 12.03.2021 / We reserve the right to make technical changes.

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**Technical data****Dimensions and weights**

|                |          |                 |            |
|----------------|----------|-----------------|------------|
| Depth          | 20.1 mm  | Depth (inches)  | 0.791 inch |
| Height         | 15.2 mm  | Height (inches) | 0.598 inch |
| Net weight     | 6.16 g   | Width           | 20.32 mm   |
| Width (inches) | 0.8 inch |                 |            |

**System Parameters**

|                                              |                                     |                                            |                     |
|----------------------------------------------|-------------------------------------|--------------------------------------------|---------------------|
| Product family                               | OMNIMATE Signal - series BL/SL 5.08 | Type of connection                         | Field connection    |
| Wire connection method                       | Clamping yoke connection            | Pitch in mm (P)                            | 5.08 mm             |
| Pitch in inches (P)                          | 0.2 inch                            | Conductor outlet direction                 | 180°                |
| Number of poles                              | 4                                   | L1 in mm                                   | 15.24 mm            |
| L1 in inches                                 | 0.6 inch                            | Number of rows                             | 1                   |
| Pin series quantity                          | 1                                   | Rated cross-section                        | 2.5 mm <sup>2</sup> |
| Touch-safe protection acc. to DIN VDE 57 106 | Safe from finger touch              | Touch-safe protection acc. to DIN VDE 0470 | IP 20               |
| Volume resistance                            | 4.50 mΩ                             | Can be coded                               | Yes                 |
| Stripping length                             | 7 mm                                | Tightening torque, min.                    | 0.4 Nm              |
| Tightening torque, max.                      | 0.5 Nm                              | Clamping screw                             | M 2.5               |
| Screwdriver blade                            | 0.6 x 3.5                           | Screwdriver blade standard                 | DIN 5264            |
| Plugging cycles                              | 25                                  | Plugging force/pole, max.                  | 8.5 N               |
| Pulling force/pole, max.                     | 6.5 N                               |                                            |                     |

**Material data**

|                                       |                            |                                       |                     |
|---------------------------------------|----------------------------|---------------------------------------|---------------------|
| Insulating material                   | PBT                        | Colour                                | orange              |
| Colour chart (similar)                | RAL 2000                   | Insulating material group             | IIIa                |
| Comparative Tracking Index (CTI)      | ≥ 200                      | Insulation strength                   | ≥ 10 <sup>8</sup> Ω |
| UL 94 flammability rating             | V-0                        | Contact base material                 | Copper alloy        |
| Contact material                      | Copper alloy               | Contact surface                       | tinned              |
| Layer structure of plug contact       | 4...8 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                     |                                       |                     |

**Conductors suitable for connection**

|                                                                     |                      |
|---------------------------------------------------------------------|----------------------|
| Clamping range, min.                                                | 0.13 mm <sup>2</sup> |
| Clamping range, max.                                                | 3.31 mm <sup>2</sup> |
| Wire connection cross section AWG, min.                             | AWG 26               |
| Wire connection cross section AWG, max.                             | AWG 12               |
| Solid, min. H05(07) V-U                                             | 0.2 mm <sup>2</sup>  |
| Solid, max. H05(07) V-U                                             | 2.5 mm <sup>2</sup>  |
| Flexible, min. H05(07) V-K                                          | 0.2 mm <sup>2</sup>  |
| Flexible, max. H05(07) V-K                                          | 2.5 mm <sup>2</sup>  |
| w. plastic collar ferrule, DIN 46228 pt 4, 0.2 mm <sup>2</sup> min. |                      |
| w. plastic collar ferrule, DIN 46228 pt 4, 2.5 mm <sup>2</sup> max. |                      |
| w. wire end ferrule, DIN 46228 pt 1, min.                           | 0.2 mm <sup>2</sup>  |
| w. wire end ferrule, DIN 46228 pt 1, max.                           | 2.5 mm <sup>2</sup>  |

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## Technical data

Plug gauge in accordance with EN 60999 a x b; ø

2.8 mm x 2.0 mm; 2.4 mm

|                     |                                        |                              |                         |      |
|---------------------|----------------------------------------|------------------------------|-------------------------|------|
| Clampable conductor | Cross-section for conductor connection | Type                         | fine-wired              |      |
|                     |                                        | nominal                      | 0.5 mm <sup>2</sup>     |      |
|                     | wire end ferrule                       | Stripping length             | nominal                 | 6 mm |
|                     |                                        | Recommended wire-end ferrule | <a href="#">H0.5/6</a>  |      |
|                     | Cross-section for conductor connection | Type                         | fine-wired              |      |
|                     |                                        | nominal                      | 1 mm <sup>2</sup>       |      |
|                     | wire end ferrule                       | Stripping length             | nominal                 | 6 mm |
|                     |                                        | Recommended wire-end ferrule | <a href="#">H1.0/6</a>  |      |
|                     | Cross-section for conductor connection | Type                         | fine-wired              |      |
|                     |                                        | nominal                      | 1.5 mm <sup>2</sup>     |      |
|                     | wire end ferrule                       | Stripping length             | nominal                 | 7 mm |
|                     |                                        | Recommended wire-end ferrule | <a href="#">H1.5/7</a>  |      |
|                     | Cross-section for conductor connection | Type                         | fine-wired              |      |
|                     |                                        | nominal                      | 2.5 mm <sup>2</sup>     |      |
|                     | wire end ferrule                       | Stripping length             | nominal                 | 7 mm |
|                     |                                        | Recommended wire-end ferrule | <a href="#">H2.5/7</a>  |      |
|                     | Cross-section for conductor connection | Type                         | fine-wired              |      |
|                     |                                        | nominal                      | 0.75 mm <sup>2</sup>    |      |
|                     | wire end ferrule                       | Stripping length             | nominal                 | 6 mm |
|                     |                                        | Recommended wire-end ferrule | <a href="#">H0.75/6</a> |      |

Reference text

The outside diameter of the plastic collar should not be larger than the pitch (P). Length of ferrules is to be chosen depending on the product and the rated voltage.

## Rated data acc. to IEC

|                                                                           |                        |                                                                       |                   |
|---------------------------------------------------------------------------|------------------------|-----------------------------------------------------------------------|-------------------|
| tested acc. to standard                                                   | IEC 60664-1, IEC 61984 | Rated current, min. number of poles (Tu=20°C)                         | 19 A              |
| Rated current, max. number of poles (Tu=20°C)                             | 14.5 A                 | Rated current, min. number of poles (Tu=40°C)                         | 16 A              |
| Rated current, max. number of poles (Tu=40°C)                             | 12.5 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

Institute (CSA)



Certificate No. (CSA)

200039-1121690

|                                   |                                                                        |
|-----------------------------------|------------------------------------------------------------------------|
| Rated voltage (Use group B / CSA) | 300 V                                                                  |
| Rated current (Use group B / CSA) | 15 A                                                                   |
| Wire cross-section, AWG, min.     | AWG 26                                                                 |
| Reference to approval values      | Specifications are maximum values, details - see approval certificate. |

|                                   |        |
|-----------------------------------|--------|
| Rated voltage (Use group D / CSA) | 300 V  |
| Rated current (Use group D / CSA) | 10 A   |
| Wire cross-section, AWG, max.     | AWG 12 |

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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

Wire cross-section, AWG, min. AWG 26

Wire cross-section, AWG, max. AWG 12

Reference to approval values

Specifications are maximum values, details - see approval certificate.

**Packing**

Packaging

Box

VPE length

230 mm

VPE width

130 mm

VPE height

45 mm

**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.
- Wire end ferrule without plastic collar to DIN 46228/1
- Wire end ferrule with plastic collar to DIN 46228/4
- 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

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## Technical data

### Downloads

Approval/Certificate/Document of  
Conformity

[Declaration of the Manufacturer](#)

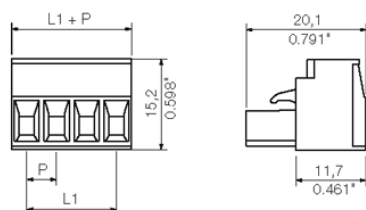
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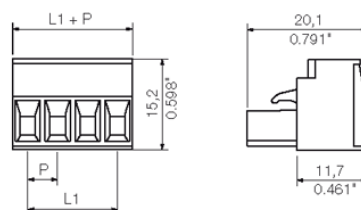
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# Drawings

## Dimensional drawing



## Dimensional drawing



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WEIDMUELLER INTERFACE GmbH & Co.KG

MASSE OHNE TOLERANZ SIND KEINE PRUEFMASSE  
DIMS. WITHOUT TOLERANCE ARE NOT CONTROL DIMS.

DIE DEUTSCHE VERSION IST VERBINDLICH  
THE GERMAN VERSION IS BINDING



|    |         |           |
|----|---------|-----------|
| 24 | 116,84  | 4,600     |
| 23 | 111,76  | 4,400     |
| 22 | 106,68  | 4,200     |
| 21 | 101,60  | 4,000     |
| 20 | 96,52   | 3,800     |
| 19 | 91,44   | 3,600     |
| 18 | 86,36   | 3,400     |
| 17 | 81,28   | 3,200     |
| 16 | 76,20   | 3,000     |
| 15 | 71,12   | 2,800     |
| 14 | 66,04   | 2,600     |
| 13 | 60,96   | 2,400     |
| 12 | 55,88   | 2,200     |
| 11 | 50,80   | 2,000     |
| 10 | 45,72   | 1,800     |
| 9  | 40,64   | 1,600     |
| 8  | 35,56   | 1,400     |
| 7  | 30,48   | 1,200     |
| 6  | 25,40   | 1,000     |
| 5  | 20,32   | 0,800     |
| 4  | 15,24   | 0,600     |
| 3  | 10,16   | 0,400     |
| 2  | 5,08    | 0,200     |
| n  | L1 [mm] | L1 [Inch] |

SHOWN BLZ 5.08/04/180

For the mounting of PCBs, it should be noted that the rated data given in the catalogue relates only to the connection elements. The necessary creepage and clearance paths must be observed in connection with the respective applicant in accordance to VDE 0110. The current-carrying capacity and pitch tolerance is to be determined according to DIN IEC 326 part 3 very fine.

Weidmüller connectors are tested to the DIN VDE 0627 standard, and are valid for its field of application. Provided that the connectors are used to the intended purpose, all requirements with respect to the occurring of electrical, mechanical, thermic and corrosive stress will be satisfied.

|               |                                                               |            |            |                                                    |                             |                                                              |  |
|---------------|---------------------------------------------------------------|------------|------------|----------------------------------------------------|-----------------------------|--------------------------------------------------------------|--|
|               | METRIC TOLERANCES:<br>X. = ±0.3<br>X.X = ±0.1<br>X.XX = ±0.05 |            |            |                                                    | CAT.NO.: .                  |                                                              |  |
|               | 53502/3<br>22.11.10 HERTEL_S                                  |            | 01         |                                                    |                             | C 16065 63<br>DRAWING NO. ISSUE NO.<br>SHEET 01 OF 03 SHEETS |  |
|               | MODIFICATION                                                  |            |            |                                                    |                             |                                                              |  |
|               |                                                               | DATE       | NAME       | BLZ 5.08/./180...<br>BUCHSENLEISTE<br>SOCKET BLOCK |                             |                                                              |  |
| DRAWN         |                                                               | 11.06.2008 | HELIS_MA   |                                                    |                             |                                                              |  |
| RESPONSIBLE   |                                                               |            | HERTEL_S   |                                                    |                             |                                                              |  |
| SCALE: 2/1    |                                                               | CHECKED    | 23.11.2010 | HECKERT_M                                          | PRODUCT FILE: BLZ 5.08 7147 |                                                              |  |
| SUPERSEDES: . |                                                               | APPROVED   |            | HECKERT_M                                          |                             |                                                              |  |