Data sheet

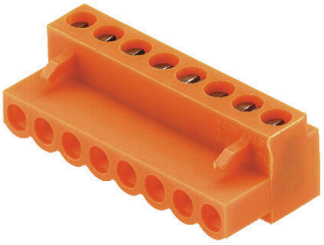
# BL 5.00/04/180 SN BK BX

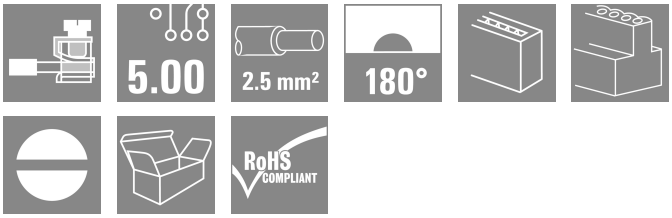
**Weidmüller Interface GmbH & Co. KG**
Klingenbergstraße 26
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Germany

www.weidmueller.com

Do not use product for new developments

## Product image






Similar to illustration

Female plugs with leaf-spring wire connection system.
The female plugs provide space for labelling.

## General ordering data

| | |
|---|---|
| Version | PCB plug-in connector, female plug, 5.00 mm, Number of poles: 4, 180°, Pressure clamp connection, Clamping range, max. : 2.08 mm², Box |
| Order No. | 1730720000 |
| Type | BL 5.00/04/180 SN BK BX |
| GTIN (EAN) | 4008190387310 |
| Qty. | 100 items |
| Product data | IEC: 400 V / 14 A / 0.5 - 1.5 mm²<br>UL: 300 V / 10 A / AWG 26 - AWG 14 |
| Packaging | Box |
| Delivery status | Discontinued |
| Available until | 2023-07-30T00:00:00+02:00 |
| Alternative product | BLZP 5.00HC/04/180 SN BK BX |

Creation date 25.02.2026 03:16:13 MEZ

# Data sheet

## BL 5.00/04/180 SN BK BX

**Weidmüller Interface GmbH & Co. KG**
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# Technical data

### Approvals

| | |
|---|---|
| Approvals |  |
| ROHS | Conform |
| UL File Number Search | UL Website |
| Certificate No. (UR) | E60693 |

### Dimensions and weights

| | | | |
|---|---|---|---|
| Depth | 17.4 mm | Depth (inches) | 0.685 inch |
| Height | 12.5 mm | Height (inches) | 0.4921 inch |
| Width | 20 mm | Width (inches) | 0.7874 inch |
| Net weight | 5.43 g | | |

### Environmental Product Compliance

| | |
|---|---|
| RoHS Compliance Status | Compliant without exemption |
| REACH SVHC | No SVHC above 0.1 wt% |

### System Parameters

| | | | |
|---|---|---|---|
| Product family | OMNIMATE Signal - series BL/SL 5.00 | Type of connection | Field connection |
| Wire connection method | Pressure clamp connection | Pitch in mm (P) | 5.00 mm |
| Pitch in inches (P) | 0.197 " | Conductor outlet direction | 180° |
| Number of poles | 4 | L1 in mm | 15.00 mm |
| L1 in inches | 0.591 " | Number of rows | 1 |
| Pin series quantity | 1 | Rated cross-section | 1.5 mm² |
| Touch-safe protection acc. to DIN VDE 57 106 | Safe from back-of-hand touch | Touch-safe protection acc. to DIN VDE 0470 | IP20 plugged/ IP10 unplugged |
| Protection degree | IP20 | Volume resistance | ≤5 mΩ |
| Can be coded | Yes | Stripping length | 6 mm |
| Tightening torque, min. | 0.4 Nm | Tightening torque, max. | 0.5 Nm |
| Clamping screw | M 2.5 | Plugging cycles | 25 |
| Pulling force/pole, max. | 1.6 N | | |

### Material data

| | | | |
|---|---|---|---|
| Insulating material | PA | Colour | black |
| Colour chart (similar) | RAL 9011 | Insulating material group | I |
| Comparative Tracking Index (CTI) | ≥ 600 | Insulation resistance | ≥ 108 Ω |
| Moisture Level (MSL) | | UL 94 flammability rating | V-2 |
| Contact material | Cu-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 mm² | Clamping range, max. | 2.08 mm² |
| Wire connection cross section AWG, min. | AWG 26 | Wire connection cross section AWG, max. | AWG 14 |

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## Technical data

| | | | |
|---|---|---|---|
| Solid, min. H05(07) V-U | 0.5 mm² | Solid, max. H05(07) V-U | 1.5 mm² |
| Flexible, min. H05(07) V-K | 0.5 mm² | Flexible, max. H05(07) V-K | 1.5 mm² |
| w. plastic collar ferrule, DIN 46228 pt 4, min. | 0.5 mm² | w. plastic collar ferrule, DIN 46228 pt 4, max. | 1 mm² |
| w. wire end ferrule, DIN 46228 pt 1, min. | 0.5 mm² | Plug gauge in accordance with EN 60999 a x b; ø | 2.4 mm x 1.5 mm |
| 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) | 14 A |
| Rated current, max. number of poles (Tu=20°C) | 12 A | Rated current, min. number of poles (Tu=40°C) | 12 A |
| Rated current, max. number of poles (Tu=40°C) | 10 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 | | |

### Rated data acc. to CSA

| | | | |
|---|---|---|---|
| Institute (CSA) | CSA | Certificate No. (CSA) | 200039-1027343 |
| Rated voltage (Use group B / CSA) | 300 V | Rated voltage (Use group D / CSA) | 300 V |
| Rated current (Use group B / CSA) | 10 A | Rated current (Use group D / CSA) | 10 A |
| Wire cross-section, AWG, min. | AWG 26 | Wire cross-section, AWG, max. | AWG 14 |
| Reference to approval values | Specifications are maximum values, details - see approval certificate. | | |

### Rated data acc. to UL 1059

| | | | |
|---|---|---|---|
| Institute (UR) | 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) | 10 A | Rated current (Use group D / UL 1059) | 10 A |
| Wire cross-section, AWG, min. | AWG 26 | Wire cross-section, AWG, max. | AWG 14 |
| Reference to approval values | Specifications are maximum values, details - see approval certificate. | | |

### Packing

| | | | |
|---|---|---|---|
| Packaging | Box | VPE length | 130.00 mm |
| VPE width | 107.00 mm | VPE height | 67.00 mm |

### 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 variants on request |

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## Technical data

- 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
- Do not tighten screws in inserted condition
- 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.
- In accordance with IEC 61984, OMNIMATE-connectors are connectors without breaking capacity (COC). During designated use, connectors are not allowed to be engaged or disengaged when live or under load
- Long term storage of the product with average temperature of 50 °C and maximum humidity 70%, 36 months

### Classifications

| | | | |
|---|---|---|---|
| ETIM 8.0 | EC002638 | ETIM 9.0 | EC002638 |
| ETIM 10.0 | EC002638 | ECLASS 14.0 | 27-46-02-02 |
| ECLASS 15.0 | 27-46-02-02 | | |

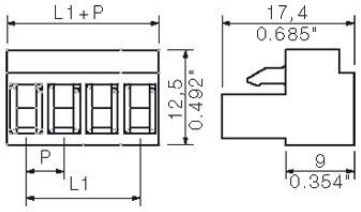
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## Drawings

### Dimensional drawing



# BL 5.00/04/180 SN BK BX

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## Accessories

### Coding elements



Only connects what is supposed to be connected: the right connection at the right place.
Coding elements and locking devices clearly assign connecting elements during the manufacturing process and operation
The coding elements and locking devices are inserted prior to assembly or during the cable assembly phase.
The Weidmüller alternative: configure online using the variant configurator to precode prior to delivery.
Incorrect assembly on the circuit board and incorrect plugging of connecting elements is no longer possible.
The advantage: no troubleshooting during manufacture and no operational errors by the user.

### General ordering data

| | | |
|---|---|---|
| Type | BL KO3 | Version |
| Order No. | 1337600000 | PCB plug-in connector, Accessories, Coding element, Aluminium, |
| GTIN (EAN) | 4008190072599 | Number of poles: 1 |
| Qty. | 100 ST | |