Data sheet

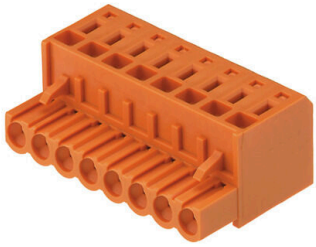
# BLZF 5.08/24/180 SN OR BX

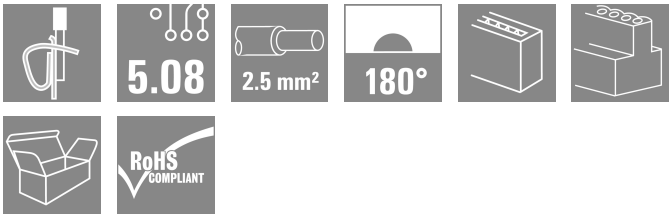
**Weidmüller Interface GmbH & Co. KG**
Klingenbergstraße 26
D-32758 Detmold
Germany

www.weidmueller.com

Do not use product for new developments

## Product image






Similar to illustration

Female plugs with tension-clamp wire connection system, 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: 24, 180°, Tension-clamp connection, Clamping range, max. : 3.31 mm², Box |
| Order No. | 1707680000 |
| Type | BLZF 5.08/24/180 SN OR BX |
| GTIN (EAN) | 4008190316686 |
| Qty. | 12 items |
| Product data | IEC: 400 V / 17 A / 0.2 - 2.5 mm²<br>UL: 300 V / 15 A / AWG 26 - AWG 12 |
| Packaging | Box |
| Delivery status | Discontinued |
| Available until | 2023-07-30T00:00:00+02:00 |
| Alternative product | BLF 5.08HC/24/180 SN OR BX |

Creation date 19.02.2026 09:06:11 MEZ



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# Data sheet

## BLZF 5.08/24/180 SN OR 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 |
| Certificate No. (cURus) | E60693 |

### Dimensions and weights

| | | | |
|---|---|---|---|
| Depth | 25.1 mm | Depth (inches) | 0.9882 inch |
| Height | 15.2 mm | Height (inches) | 0.5984 inch |
| Width | 121.92 mm | Width (inches) | 4.8 inch |
| Net weight | 41.65 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 5.08 | Type of connection | Field connection |
| Wire connection method | Tension-clamp connection | Pitch in mm (P) | 5.08 mm |
| Pitch in inches (P) | 0.200 " | Conductor outlet direction | 180° |
| Number of poles | 24 | L1 in mm | 116.84 mm |
| L1 in inches | 4.600 " | Number of rows | 1 |
| Pin series quantity | 1 | Touch-safe protection acc. to DIN VDE 57 106 | Safe from finger 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 | 10 mm | Screwdriver blade | 0.6 x 3.5 |
| Screwdriver blade standard | DIN 5264-A | Plugging cycles | 25 |
| Pulling force/pole, max. | 2 N | | |

### Material data

| | | | |
|---|---|---|---|
| Insulating material | PBT | Colour | orange |
| Colour chart (similar) | RAL 2000 | Insulating material group | IIIa |
| Comparative Tracking Index (CTI) | ≥ 200 | Insulation resistance | ≥ 108 Ω |
| Moisture Level (MSL) | | UL 94 flammability rating | V-0 |
| 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. | 3.31 mm² |
| Wire connection cross section AWG, min. | AWG 26 | Wire connection cross section AWG, max. | AWG 12 |



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## Technical data

| | | | |
|---|---|---|---|
| Solid, min. H05(07) V-U | 0.2 mm² | Solid, max. H05(07) V-U | 2.5 mm² |
| Flexible, min. H05(07) V-K | 0.2 mm² | Flexible, max. H05(07) V-K | 2.5 mm² |
| w. plastic collar ferrule, DIN 46228 pt 4, min. | 0.2 mm² | w. plastic collar ferrule, DIN 46228 pt 4, max. | 1.5 mm² |
| w. wire end ferrule, DIN 46228 pt 1, min. | 0.2 mm² | w. wire end ferrule, DIN 46228 pt 1, max. | 1.5 mm² |
| Plug gauge in accordance with EN 60999 a x b; ø | 2.8 mm x 2.0 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) | 17 A |
| Rated current, max. number of poles (Tu=20°C) | 12.5 A | Rated current, min. number of poles (Tu=40°C) | 14.5 A |
| Rated current, max. number of poles (Tu=40°C) | 11 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) | CSA | Certificate No. (CSA) | 200039-1461395 |
| 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 |
| 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. | | |

### Rated data acc. to UL 1059

| | | | |
|---|---|---|---|
| Institute (UR) | UR | Certificate No. (UR) | E60693 |
| Institute (cURus) | CURUS | Certificate No. (cURus) | 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 | 349.00 mm |
| VPE width | 135.00 mm | VPE height | 33.00 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. |



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## Technical data

| | |
|---|---|
| Notes | • Additional variants on request<br>• Gold-plated contact surfaces on request<br>• Rated current related to rated cross-section & min. No. of poles.<br>• Wire end ferrule without plastic collar to DIN 46228/1<br>• Wire end ferrule with plastic collar to DIN 46228/4<br>• P on drawing = pitch<br>• 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.<br>• 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<br>• 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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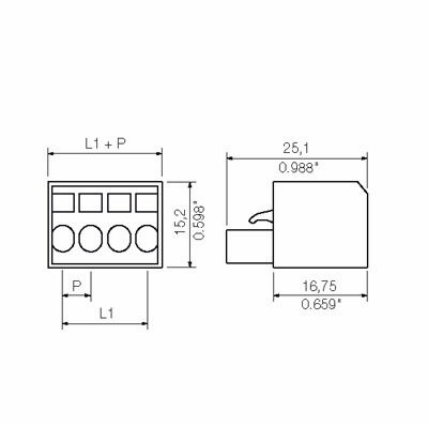
# BLZF 5.08/24/180 SN OR BX

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## Drawings

### Dimensional drawing






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## Accessories

### Strain reliefs



For frequent load changes: the "trailer coupling" for plug-in connectors.
The strain relief can do more than just relieve the strain on conductors:
Simply clip onto the plug and
• bundle conductors
• guide cables
• use as a connection and disconnection aid
No damage to the connecting points, clear, tidy wiring and easy to handle.
User advantages: permanent heavy-duty connections for harsh industrial environments and convenient operation ensure improved system availability.

#### General ordering data

| | | |
|---|---|---|
| Type | BLZF/SLZF ZE04 OR BX | Version |
| Order No. | 1714930000 | PCB plug-in connector, Accessories, Strain relief, orange, Number of |
| GTIN (EAN) | 4008190989156 | poles: 4 |
| Qty. | 50 ST | |
| Type | BLZF/SLZF ZE08 OR BX | Version |
| Order No. | 1714940000 | PCB plug-in connector, Accessories, Strain relief, orange, Number of |
| GTIN (EAN) | 4008190989163 | poles: 8 |
| Qty. | 50 ST | |
| Type | BLZF/SLZF ZE04 BK BX | Version |
| Order No. | 1746300000 | PCB plug-in connector, Accessories, Strain relief, black, Number of |
| GTIN (EAN) | 4008190987886 | poles: 4 |
| Qty. | 50 ST | |

### Adapters for rail mounting



Clip on and use!
From the circuit board in the control cabinet: snap-on or mounting feet form the link between plug-in connectors and terminal rails.
Compatible with all standard sizes: TS 15 or TS 35.
Combination foot or variations available.
The quick alternative to screw connections: unbeatable ease of installation and service.
The mounting foot for the terminal rails allows the universal use of pluggable connection systems on the module, the enclosure and the control cabinet and avoids patchwork solutions.

#### General ordering data

| | | |
|---|---|---|
| Type | KF BLZF/SLZF/BLIDC | Version |
| Order No. | 1760070000 | PCB plug-in connector, Accessories, Clip-in foot, orange |
| GTIN (EAN) | 4032248029204 | |
| Qty. | 20 ST | |
| Type | RF 15 BLZF/SLZF/BLIDC | Version |
| Order No. | 1760080000 | PCB plug-in connector, Accessories, Clip-in foot, orange, Number of |
| GTIN (EAN) | 4032248029211 | poles: 1 |
| Qty. | 20 ST | |



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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 | BLZ/SL KO BK BX | Version |
| Order No. | 1545710000 | PCB plug-in connector, Accessories, Coding element, black, Number |
| GTIN (EAN) | 4008190087142 | of poles: 1 |
| Qty. | 50 ST | |
| Type | BLZ/SL KO OR BX | Version |
| Order No. | 1573010000 | PCB plug-in connector, Accessories, Coding element, orange, Number |
| GTIN (EAN) | 4008190048396 | of poles: 1 |
| Qty. | 100 ST | |

### Auxiliary tools



More intelligent. More efficient. Quicker.
Auxiliary tools simplify the process of connecting and configuring the connection components:
- Assembly blocks for socket connectors with IDC contacts (type BL-IDC) can be used in machines such as toggle lever presses. All conductors are connected at the same time.
- Unlocking and dismantling tools release the crimp contacts in crimped plug-in connectors (type BLC & BLAC)
- Operating levers open individual clamping points on plug-in tension clamp connectors

For better, more rapid working progress
The result: efficient, professional working progress.

#### General ordering data

| | | |
|---|---|---|
| Type | BLZF BW-S | Version |
| Order No. | 1764080000 | PCB plug-in connector |
| GTIN (EAN) | 4032248060467 | |
| Qty. | 100 ST | |
| Type | BLZF BW-B | Version |
| Order No. | 1764090000 | PCB plug-in connector |
| GTIN (EAN) | 4032248298679 | |
| Qty. | 100 ST | |



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