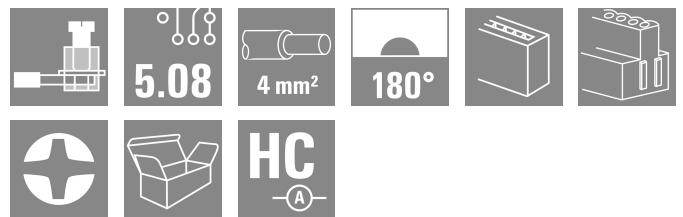
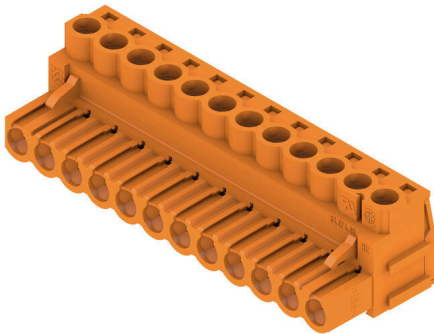


## BLZP 5.08HC/12/180B SN OR BX

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

www.weidmueller.com

### Product image



Female plug with clamping-yoke screw system for connecting wires with straight (180°) outlet direction. The female connectors provide space for labelling and can be coded. Fastened by means of a flange or release latch. They also provide an integrated plus/minus screw, protection against faulty insertion of the wire, and they are delivered with open clamping yokes. HC = High Current.

### General ordering data

|              |  |
|--------------|--|
| Version      | PCB plug-in connector, female plug, 5.08 mm, Number of poles: 5, 180°, Clamping yoke connection, Box |
| Order No.    | <a href="#">2879350000</a>   |
| Type         | BLZP 5.08HC/12/180B SN OR BX   |
| GTIN (EAN)   | 4064675671510  |
| Qty.         | 24 items   |
| Product data | IEC: 400 V / 0.2 - 4 mm <sup>2</sup><br>UL: 300 V / AWG 26 - AWG 12                                  |
| Packaging    | Box  |

## BLZP 5.08HC/12/180B SN OR BX

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## Technical data

### Approvals

Approvals



|                         |                            |
|-------------------------|----------------------------|
| ROHS                    | Conform                    |
| UL File Number Search   | <a href="#">UL Website</a> |
| Certificate No. (cURus) | E60693                     |

### Dimensions and weights

|            |          |                 |             |
|------------|----------|-----------------|-------------|
| Depth      | 20.1 mm  | Depth (inches)  | 0.7913 inch |
| Height     | 16 mm    | Height (inches) | 0.6299 inch |
| Width      | 62.96 mm | Width (inches)  | 2.4787 inch |
| Net weight | 18.78 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 |                   |                            |
| Wire connection method     | Clamping yoke connection            |                   |                            |
| Pitch in mm (P)            | 5.08 mm                             |                   |                            |
| Conductor outlet direction | 180°                                |                   |                            |
| Number of poles            | 5                                   |                   |                            |
| L1 in mm                   | 55.88 mm                            |                   |                            |
| L1 in inches               | 2.200 "                             |                   |                            |
| Pin series quantity        | 1                                   |                   |                            |
| Protection degree          | IP20                                |                   |                            |
| Plugging cycles            | 25                                  |                   |                            |
| Tightening torque          | Torque type                         | Wire connection   |                            |
|                            | Usage information                   | Tightening torque | min. 0.4 Nm<br>max. 0.5 Nm |

### Material data

|                             |          |                                 |                            |
|-----------------------------|----------|---------------------------------|----------------------------|
| Insulating material         | PBT      | Colour                          | orange                     |
| Colour chart (similar)      | RAL 2000 | 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 |
| Operating temperature, min. | -50 °C   | Operating temperature, max.     | 100 °C                     |

### Conductors suitable for connection

|   |  |         |                     |
|---|--|---------|---------------------|
| Solid, min. H05(07) V-U                   | 0.2 mm <sup>2</sup>                    |         |                     |
| Solid, max. H05(07) V-U                   | 4 mm <sup>2</sup>                      |         |                     |
| Flexible, min. H05(07) V-K                | 0.2 mm <sup>2</sup>                    |         |                     |
| Flexible, max. H05(07) V-K                | 4 mm <sup>2</sup>                      |         |                     |
| w. wire end ferrule, DIN 46228 pt 1, min. | 0.2 mm <sup>2</sup>                    |         |                     |
| w. wire end ferrule, DIN 46228 pt 1, max. | 4 mm <sup>2</sup>                      |         |                     |
| Clampable conductor                       | Cross-section for conductor connection | Type    | fine-wired          |
|   |  | nominal | 0.5 mm <sup>2</sup> |

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**Technical data**

|  |                              |                             |       |
|--|------------------------------|-----------------------------|-------|
| wire end ferrule                       | Stripping length             | nominal                     | 6 mm  |
|  | Recommended wire-end ferrule | <a href="#">H0,5/6</a>      |       |
|  | Stripping length             | nominal                     | 8 mm  |
|  | Recommended wire-end ferrule | <a href="#">H0,5/12 OR</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>      |       |
|  | Stripping length             | nominal                     | 10 mm |
|  | Recommended wire-end ferrule | <a href="#">H2,5/15D BL</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**

|  |        |   |       |
|--|--------|---|-------|
| Rated current, max. number of poles (Tu=20°C)                        | 18 A   | Rated current, min. number of poles (Tu=40°C)                         | 21 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 impulse voltage for surge voltage class/ pollution degree II/2 | 4000 V | Rated impulse voltage for surge voltage class/ pollution degree III/2 | 4 kV  |

**Rated data acc. to UL 1059**

|                                       |  |                                       |        |
|---------------------------------------|--|---------------------------------------|--------|
| 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  |
| 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 | 338.00 mm |
| VPE width | 130.00 mm | VPE height | 27.00 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          | <ul style="list-style-type: none"> <li>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</li> <li>Long term storage of the product with average temperature of 50 °C and maximum humidity 70%, 36 months</li> </ul> |

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## Technical data

### 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 |             |             |

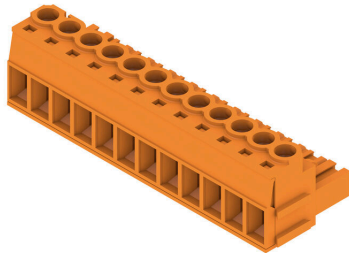
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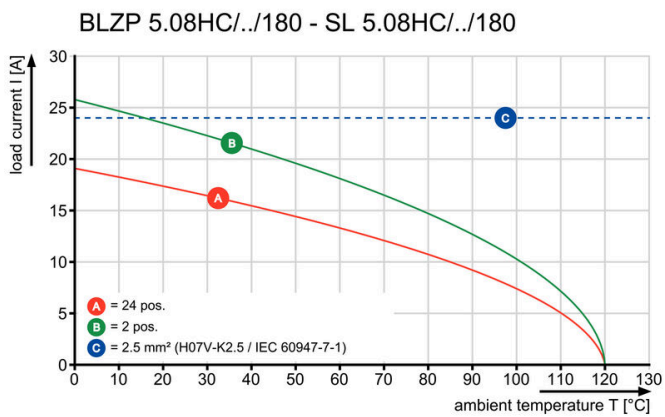
**Drawings**

**Product image**



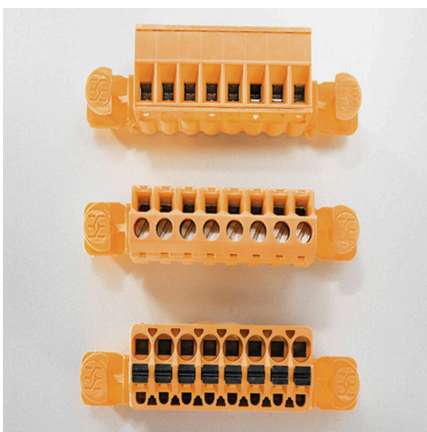
**Graph**

**Product benefits**



Lower assembly costs Secure in a matter of seconds

**Product benefits**



Flexible application options For 3 connection systems

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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

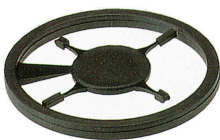
No damage to the connecting points, clear, tidy wiring and easy to handle.

User advantages: permanent heavy-duty connections for harsh industrial environments and convenient operation ensure improved system availability.

## General ordering data

|            |                            |  |
|------------|----------------------------|--|
| Type       | BLZ 5.08 ZE04 OR BX        | Version  |
| Order No.  | <a href="#">1652110000</a> | PCB plug-in connector, Accessories, Strain relief, orange, Number of |
| GTIN (EAN) | 4008190401788              | poles: 4   |
| Qty.       | 50 ST                      |  |
| Type       | BLZ 5.08 ZE04 BK BX        | Version  |
| Order No.  | <a href="#">1652130000</a> | PCB plug-in connector, Accessories, Strain relief, black, Number of  |
| GTIN (EAN) | 4008190401801              | poles: 4   |
| Qty.       | 50 ST                      |  |
| Type       | BLZ 5.08 ZE08 OR BX        | Version  |
| Order No.  | <a href="#">1652050000</a> | PCB plug-in connector, Accessories, Strain relief, orange, Number of |
| GTIN (EAN) | 4008190401726              | poles: 8   |
| Qty.       | 50 ST                      |  |
| Type       | BLZ 5.08 ZE08 BK BX        | Version  |
| Order No.  | <a href="#">1652070000</a> | PCB plug-in connector, Accessories, Strain relief, black, Number of  |
| GTIN (EAN) | 4008190401740              | poles: 8   |
| Qty.       | 50 ST                      |  |

## 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 OR BX            | Version  |
| Order No.  | <a href="#">1573010000</a> | PCB plug-in connector, Accessories, Coding element, orange, Number |
| GTIN (EAN) | 4008190048396              | of poles: 1  |
| Qty.       | 100 ST                     |  |

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**Accessories**

|            |                            |   |
|------------|----------------------------|---|
| Type       | BLZ/SL KO BK BX            | Version   |
| Order No.  | <a href="#">1545710000</a> | PCB plug-in connector, Accessories, Coding element, black, Number |
| GTIN (EAN) | 4008190087142              | of poles: 1   |
| Qty.       | 50 ST                      |   |

**Slotted screwdriver**

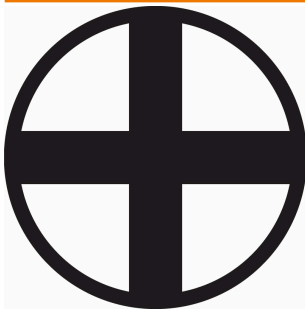


Slotted screwdriver with rounded blade SD DIN 5265, ISO 2380/2, output to DIN 5264, ISO 2380/1. ChromTop tip, SoftFinish grip

**General ordering data**

|            |                            |   |
|------------|----------------------------|---|
| Type       | SDS 0.6X3.5X100            | Version   |
| Order No.  | <a href="#">2749340000</a> | Screwdriver, Blade width (B): 3.5 mm, Blade length: 100 mm, Blade thickness (A): 0.6 mm |
| GTIN (EAN) | 4050118895568              |   |
| Qty.       | 1 ST                       |   |
| Type       | SDIS 0.6X3.5X100           | Version   |
| Order No.  | <a href="#">2749810000</a> | Screwdriver, Blade width (B): 3.5 mm, Blade length: 100 mm, Blade thickness (A): 0.6 mm |
| GTIN (EAN) | 4050118897012              |   |
| Qty.       | 1 ST                       |   |

**Crosshead screwdriver Phillips**



Crosshead screwdriver, Phillips, SDK PH DIN 5262, ISO 8764/2-PH, output to ISO 8764-PH, ChromTop tip, SoftFinish grip

**General ordering data**

|            |                            |   |
|------------|----------------------------|---|
| Type       | SDK PH1 X 80               | Version   |
| Order No.  | <a href="#">2749410000</a> | Screwdriver, Blade width (B): 4.5 mm, 80 mm, Blade thickness (A): 1 |
| GTIN (EAN) | 4050118895636              |   |
| Qty.       | 1 ST                       |   |

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## Accessories

### Crosshead screwdriver Pozidriv



Crosshead screwdriver, Pozidriv, SDK PZ DIN 5262, ISO 8764/2-PZ, output to ISO 8764/1-PZ, ChromTop tip, SoftFinish grip

### General ordering data

|            |                            |  |  |
|------------|----------------------------|--|--|
| Type       | SDK PZ1 X 80               | Version  |  |
| Order No.  | <a href="#">2749440000</a> | Screwdriver, Blade width (B): 14.5 mm, 80 mm, Blade thickness (A): 1 |  |
| GTIN (EAN) | 4050118895667              |  |  |
| Qty.       | 1 ST                       |  |  |