

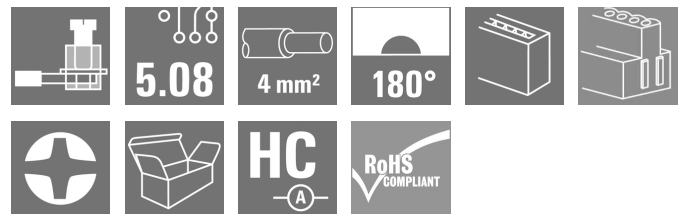
BLZP 5.08HC/02/180B SN OR BX**Weidmüller Interface GmbH & Co. KG**

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: 2, 180°, Clamping yoke connection, Clamping range, max. : 4 mm², Box |
| Order No. | 2123110000 |
| Type | BLZP 5.08HC/02/180B SN OR BX |
| GTIN (EAN) | 4050118425710 |
| Qty. | 150 pc(s). |
| Product data | IEC: 400 V / 23 A / 0.2 - 4 mm² UL: 300 V / 20 A / AWG 26 - AWG 12 |
| Packaging | Box |

Creation date July 16, 2024 8:51:25 PM CEST

Catalogue status 13.07.2024 / 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 | 16 mm | Height (inches) | 0.63 inch |
| Width | 12.16 mm | Width (inches) | 0.479 inch |
| Net weight | 0.233 g | | |

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 " | | |
| Conductor outlet direction | 180° | | |
| Number of poles | 2 | | |
| L1 in mm | 5.08 mm | | |
| L1 in inches | 0.2 " | | |
| Number of rows | 1 | | |
| Pin series quantity | 1 | | |
| Rated cross-section | 4 mm ² | | |
| 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 | 5.00 mΩ | | |
| Can be coded | Yes | | |
| Stripping length | 7 mm | | |
| Clamping screw | M 2.5 | | |
| Screwdriver blade | 0.6 x 3.5, PH 1, PZ 1 | | |
| Screwdriver blade standard | DIN 5264, ISO 8764/2-PH, ISO 8764/2-PZ | | |
| Plugging cycles | 25 | | |
| Plugging force/pole, max. | 10 N | | |
| Pulling force/pole, max. | 9 N | | |
| Tightening torque | Torque type | Wire connection | |
| | Usage information | Tightening torque | <div>min. 0.4 Nm</div> <div>max. 0.5 Nm</div> |

Material data

| | | | |
|---------------------------------------|----------------------------|---------------------------------------|--------|
| Insulating material | PBT | Colour | orange |
| Colour chart (similar) | RAL 2000 | Insulating material group | IIIa |
| Comparative Tracking Index (CTI) | ≥ 200 | 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 mm ² |
| Clamping range, max. | 4 mm ² |
| Wire connection cross section AWG, min. | AWG 30 |

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| | | | | |
|---|--|------------------------------|-----------------------------|-------|
| Wire connection cross section AWG, max. | AWG 12 | | | |
| Solid, min. H05(07) V-U | 0.2 mm ² | | | |
| Solid, max. H05(07) V-U | 4 mm ² | | | |
| Flexible, min. H05(07) V-K | 0.2 mm ² | | | |
| Flexible, max. H05(07) V-K | 4 mm ² | | | |
| w. plastic collar ferrule, DIN 46228 pt 4, 0.2 mm ² min. | | | | |
| w. plastic collar ferrule, DIN 46228 pt 4, 2.5 mm ² max. | | | | |
| w. wire end ferrule, DIN 46228 pt 1, min. | 0.2 mm ² | | | |
| w. wire end ferrule, DIN 46228 pt 1, max. | 4 mm ² | | | |
| Plug gauge in accordance with EN 60999 a x b; ø | 2.8 mm x 2.4 mm | | | |
| Clampable conductor | Cross-section for conductor connection | Type | fine-wired | |
| | | nominal | 0.5 mm ² | |
| | wire end ferrule | Stripping length | nominal | 6 mm |
| | | Recommended wire-end ferrule | H0.5/6 | |
| | | Stripping length | nominal | 8 mm |
| | | Recommended wire-end ferrule | H0.5/12 OR | |
| | Cross-section for conductor connection | Type | fine-wired | |
| | | nominal | 1 mm ² | |
| | wire end ferrule | Stripping length | nominal | 6 mm |
| | | Recommended wire-end ferrule | H1.0/6 | |
| | | | | |
| | Cross-section for conductor connection | Type | fine-wired | |
| | | nominal | 1.5 mm ² | |
| | wire end ferrule | Stripping length | nominal | 7 mm |
| | | Recommended wire-end ferrule | H1.5/7 | |
| | | | | |
| | Cross-section for conductor connection | Type | fine-wired | |
| | | nominal | 2.5 mm ² | |
| | wire end ferrule | Stripping length | nominal | 7 mm |
| | | Recommended wire-end ferrule | H2.5/7 | |
| | | Stripping length | nominal | 10 mm |
| | | Recommended wire-end ferrule | H2.5/15D BL | |
| 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) | 23 A |
| Rated current, max. number of poles (Tu=20°C) | 18 A | Rated current, min. number of poles (Tu=40°C) | 21 A |
| Rated current, max. number of poles (Tu=40°C) | 16 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 | 4,000 V | 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 |

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Technical data**Rated data acc. to CSA**

| | | | |
|-----------------------------------|--------|-----------------------------------|--------|
| Rated voltage (Use group B / CSA) | 300 V | Rated voltage (Use group C / CSA) | 50 V |
| Rated voltage (Use group D / CSA) | 300 V | Rated current (Use group B / CSA) | 20 A |
| Rated current (Use group D / CSA) | 20 A | Wire cross-section, AWG, min. | AWG 30 |
| Wire cross-section, AWG, max. | AWG 12 | | |

Rated data acc. to UL 1059

Institute (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) | 20 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 | 350 mm |
| VPE width | 137 mm | VPE height | 31 mm |

Type tests

| | | |
|--|------------|--|
| Test: Durability of markings | Standard | DIN EN 61984 section 7.3.2 / 09.02 taking pattern from DIN EN 60068-2-70 / 07.96 |
| | Test | mark of origin, rated voltage, rated cross-section, type of material |
| | Evaluation | available |
| | Test | durability |
| Test: Misengagement (Non-interchangeability) | Evaluation | passed |
| | Standard | DIN EN 60512-13-5 / 11.06, IEC 60512-13-5 / 02.06 |
| | Test | 180° turned with coding elements |
| | Evaluation | passed |
| | Test | visual examination |
| | Evaluation | passed |

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| | | | |
|---|----------------|--|--|
| Test: Clampable cross section | Standard | DIN EN 60999-1 section 7 and 9.1 / 12.00, DIN EN 60947-1 section 8.2.4.5.1 / 12.02 | |
| | Conductor type | Type of conductor and solid 0.2 mm ² conductor cross-section | |
| | | Type of conductor and stranded 0.2 mm ² conductor cross-section | |
| | | Type of conductor and solid 2.5 mm ² conductor cross-section | |
| | | Type of conductor and stranded 2.5 mm ² conductor cross-section | |
| | | Type of conductor and AWG 26/1 conductor cross-section | |
| | | Type of conductor and AWG 26/19 conductor cross-section | |
| | Evaluation | passed | |
| Test for damage to and accidental loosening of conductors | Standard | DIN EN 60999-1 section 9.4 / 12.00 | |
| | Requirement | 0.2 kg | |
| | Conductor type | Type of conductor and AWG 26/1 conductor cross-section | |
| | | Type of conductor and AWG 26/19 conductor cross-section | |
| | Evaluation | passed | |
| | Requirement | 0.3 kg | |
| | Conductor type | Type of conductor and solid 0.5 mm ² conductor cross-section | |
| | | Type of conductor and stranded 0.5 mm ² conductor cross-section | |
| | Evaluation | passed | |
| | Requirement | 0.9 kg | |
| | Conductor type | Type of conductor and AWG 12/1 conductor cross-section | |
| | | Type of conductor and AWG 12/19 conductor cross-section | |
| | Evaluation | passed | |

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Technical data

| | | |
|---------------|----------------|---|
| Pull-out test | Standard | DIN EN 60999-1 section 9.5 / 12.00 |
| | Requirement | ≥10 N |
| | Conductor type | Type of conductor and AWG 26/1 conductor cross-section |
| | | Type of conductor and AWG 26/19 conductor cross-section |
| | Evaluation | passed |
| | Requirement | ≥20 N |
| | Conductor type | Type of conductor and H05V-U0.5 conductor cross-section |
| | | Type of conductor and H05V-K0.5 conductor cross-section |
| | Evaluation | passed |
| | Requirement | ≥60 N |
| | Conductor type | Type of conductor and H07V-U4.0 conductor cross-section |
| | | Type of conductor and H07V-K4.0 conductor cross-section |
| | | Type of conductor and AWG 12/1 conductor cross-section |
| | | Type of conductor and AWG 12/19 conductor cross-section |
| | Evaluation | passed |

Classifications

| | | | |
|-------------|-------------|-------------|-------------|
| ETIM 6.0 | EC002638 | ETIM 7.0 | EC002638 |
| ETIM 8.0 | EC002638 | ETIM 9.0 | 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 |
| ECLASS 12.0 | 27-46-02-02 | ECLASS 13.0 | 27-46-02-02 |

Environmental Product Compliance

| | |
|------------------------|-----------------------------|
| REACH SVHC | / |
| RoHS Compliance Status | Compliant without exemption |

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"> 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 |

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www.weidmueller.com**Technical data****Approvals**

Approvals



ROHS Conform

UL File Number Search UL Website

Certificate No. (cURus) E60693

Downloads

Approval/Certificate/Document of Conformity [CB Certificate](#)
[CB Testreport](#)
[Declaration of the Manufacturer](#)

Engineering Data [CAD data – STEP](#)Catalogues [Catalogues in PDF-format](#)

Brochures [FL DRIVES EN](#)
[MB DEVICE MANUF. EN](#)
[FL DRIVES DE](#)
[FL BUILDING SAFETY EN](#)
[FL APPL LED LIGHTING EN](#)
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[FL HEATING ELECTR EN](#)
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[FL BASE STATION EN](#)
[FL ELEVATOR EN](#)
[FL POWER SUPPLY EN](#)
[FL 72H SAMPLE SER EN](#)
[PO OMNIMATE EN](#)

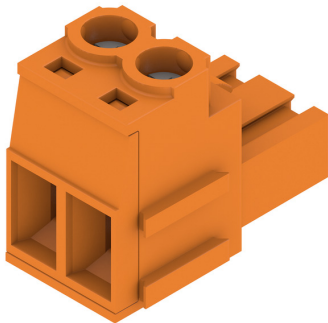
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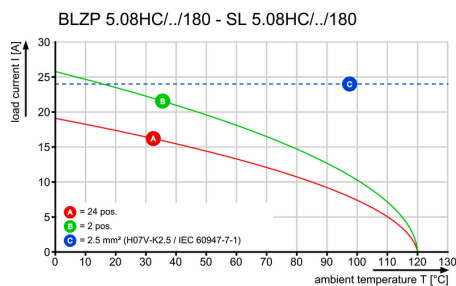
www.weidmueller.com

Drawings

Product image



Graph

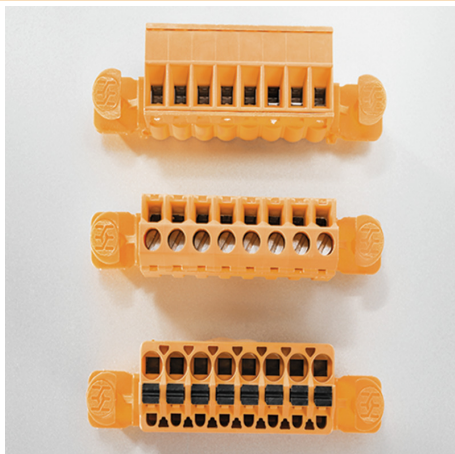


Product benefits



Lower assembly costs
Secure in a matter of seconds

Product benefits



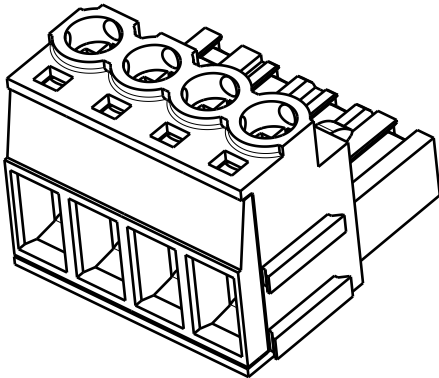
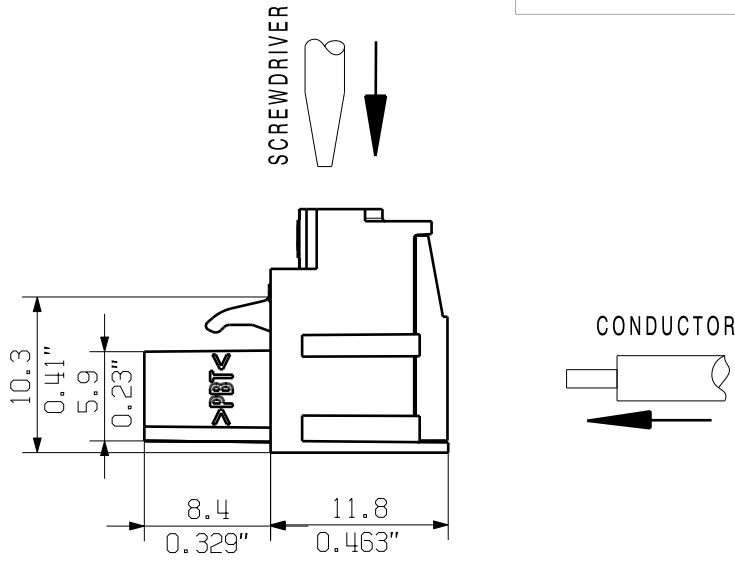
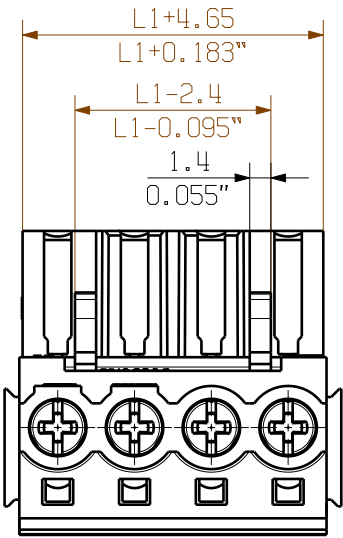
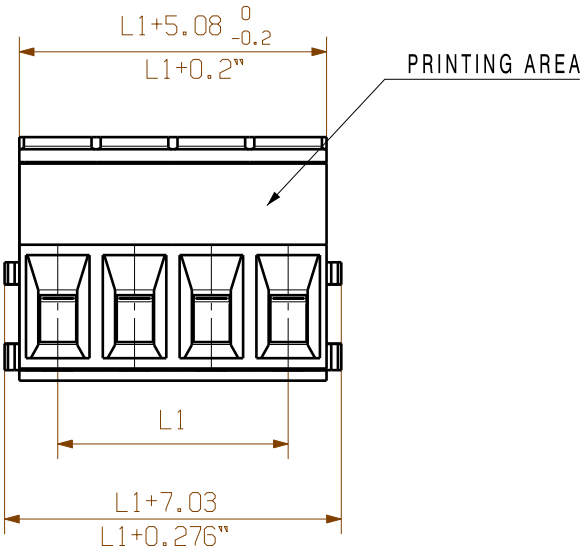
Flexible application options
For 3 connection systems

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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] |

P = 5.08 RASTER/PITCH
n = POLZAHL/NO OF POLES

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.

SHOWN: BLZP 5.08HC/05/180 B

| | | | | |
|---------------|---------------------------------|------------|-------------------|----------|
| | 78302/4 08.04.15 HERTEL_S 01 | | CAT.NO.: . | |
| | MODIFICATION | | Weidmüller | |
| ISO 2768-m | DRAWN | 05.09.2005 | NAME | CRUG_M |
| | RESPONSIBLE | | NAME | CRUG_M |
| | CHECKED | 27.04.2015 | NAME | HERTEL_S |
| SCALE: 2/1 | APPROVED | | NAME | LANG_T |
| SUPERSEDES: . | PRODUCT FILE: BLZP 5.0X WG 180 | | 7157 | |

BLZP 5.08HC/.../180...
BUCHSENLEISTE
SOCKET BLOCK