

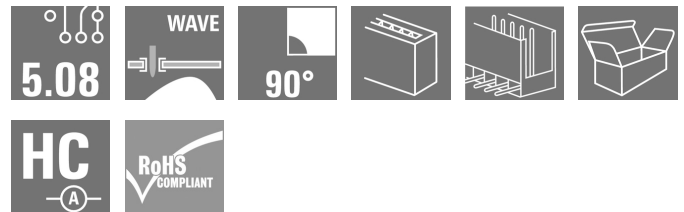
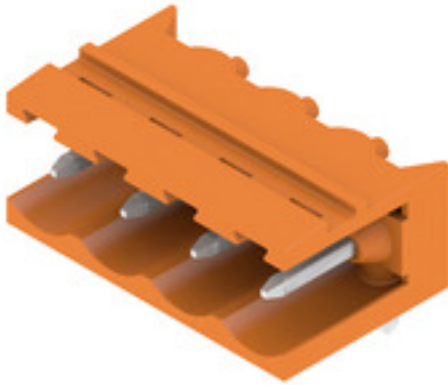
SL 5.08HC/04/90 3.2SN OR BX**Weidmüller Interface GmbH & Co. KG**

Klingenbergstraße 26

D-32758 Detmold

Germany

www.weidmueller.com

Product image

Pin headers made from glass-fibre-reinforced plastic with 90° wire outlet; optimised for wave soldering. The flange variant (F) can be screwed onto the respective counter piece or the circuit board. There is no need for an extra screw to connect the circuit board when the solder flange (LF) version is used. This also protects the solder points from mechanical strain. All pin headers can be manually coded or ordered pre-coded. HC = High Current.

General ordering data

| | |
|--------------|--|
| Version | PCB plug-in connector, male header, open side, THT solder connection, 5.08 mm, Number of poles: 4, 90°, Solder pin length (l): 3.2 mm, tinned, orange, Box |
| Order No. | 1146770000 |
| Type | SL 5.08HC/04/90 3.2SN OR BX |
| GTIN (EAN) | 4050118051483 |
| Qty. | 100 pc(s). |
| Product data | IEC: 400 V / 24 A UL: 300 V / 18.5 A |
| Packaging | Box |

Creation date November 19, 2023 5:42:51 PM CET

SL 5.08HC/04/90 3.2SN OR BX

Weidmüller Interface GmbH & Co. KG

Klingenbergstraße 26

D-32758 Detmold

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Technical data

Dimensions and weights

| | | | |
|--------------------------|------------|-----------------|------------|
| Depth | 12 mm | Depth (inches) | 0.472 inch |
| Height | 11.63 mm | Height (inches) | 0.458 inch |
| Height of lowest version | 8.43 mm | Width | 20.12 mm |
| Width (inches) | 0.792 inch | Net weight | 1.454 g |

System specifications

| | | | |
|--|---|--|---------------------------------|
| Product family | OMNIMATE Signal - series BL/SL 5.08 | Type of connection | Board connection |
| Mounting onto the PCB | THT solder connection | Pitch in mm (P) | 5.08 mm |
| Pitch in inches (P) | 0.2 " | Outgoing elbow | 90° |
| Number of poles | 4 | Number of solder pins per pole | 1 |
| Solder pin length (l) | 3.2 mm | Solder pin length tolerance | +0.1 / -0.3 mm |
| Solder pin dimensions | d = 1.2 mm, Octagonal | Solder pin dimensions = d tolerance | 0 / -0.03 mm |
| Solder eyelet hole diameter (D) | 1.4 mm | Solder eyelet hole diameter tolerance (D)+ | 0.1 mm |
| L1 in mm | 15.24 mm | L1 in inches | 0.6 " |
| Number of rows | 1 | Pin series quantity | 1 |
| Touch-safe protection acc. to DIN VDE 57 106 | finger-safe unplugged/ back-of-hand-safe plugged | Touch-safe protection acc. to DIN VDE 0470 | IP20 plugged/ IP10 unplugged |
| Protection degree | IP20 | Volume resistance | ≤5 mΩ |
| Can be coded | Yes | Plugging cycles | 25 |
| Plugging force/pole, max. | 10 N | Pulling force/pole, max. | 7.5 N |

Material data

| | | | |
|---------------------------------------|-----------------------------------|---------------------------------------|-----------------------------------|
| Insulating material | PA GF | Colour | orange |
| Colour chart (similar) | RAL 2000 | Insulating material group | II |
| Comparative Tracking Index (CTI) | ≥ 550 | UL 94 flammability rating | V-0 |
| Contact material | CuMg | Contact surface | tinned |
| Layer structure of solder connection | 1...3 µm Ni / 2...4 µm Sn matt | Layer structure of plug contact | 1...3 µm Ni / 2...4 µm Sn matt |
| 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 |

Rated data acc. to IEC

| | | | |
|--|------------------------|--|-------|
| tested acc. to standard | IEC 60664-1, IEC 61984 | Rated current, min. number of poles (Tu=20°C) | 24 A |
| Rated current, max. number of poles (Tu=20°C) | 19 A | Rated current, min. number of poles (Tu=40°C) | 21 A |
| Rated current, max. number of poles (Tu=40°C) | 16.5 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 | | |

Rated data acc. to CSA

| | | | |
|-----------------------------------|--------|-----------------------------------|-------|
| Rated voltage (Use group B / CSA) | 300 V | Rated voltage (Use group D / CSA) | 300 V |
| Rated current (Use group B / CSA) | 18.5 A | Rated current (Use group D / CSA) | 10 A |

SL 5.08HC/04/90 3.2SN OR BX

Weidmüller Interface GmbH & Co. KG

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Technical data

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) 18.5 A

Rated current (Use group D / UL 1059) 10 A

Reference to approval values

Specifications are maximum values, details - see approval certificate.

Packing

| | | | |
|-----------|--------|------------|--------|
| Packaging | Box | VPE length | 168 mm |
| VPE width | 116 mm | VPE height | 39 mm |

Classifications

| | | | |
|-------------|-------------|-------------|-------------|
| ETIM 6.0 | EC002637 | ETIM 7.0 | EC002637 |
| ETIM 8.0 | EC002637 | ETIM 9.0 | EC002637 |
| ECLASS 9.0 | 27-44-04-02 | ECLASS 9.1 | 27-44-04-02 |
| ECLASS 10.0 | 27-44-04-02 | ECLASS 11.0 | 27-46-02-01 |
| ECLASS 12.0 | 27-46-02-01 | ECLASS 13.0 | 27460201 |

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
- Gold-plated contact surfaces on request
- Rated current related to rated cross-section & min. No. of poles.
- Diameter of solder eyelet $D = 1.4 \pm 0.1 \text{ mm}$
- Solder eyelet diameter $D = 1.5 \pm 0.1 \text{ mm}$, from 9 poles
- 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.
- 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 | Declaration of the Manufacturer |
| Engineering Data | CAD data – STEP |
| Product Change Notification | EN - Change of packaging DE - Change of packaging |
| 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 FL INDUSTR.CONTROLS EN FL MACHINE SAFETY EN FL HEATING ELECTR EN FL APPL INVERTER EN FL BASE STATION EN FL ELEVATOR EN FL POWER SUPPLY EN FL 72H SAMPLE SER EN PO OMNIMATE EN PO OMNIMATE EN |

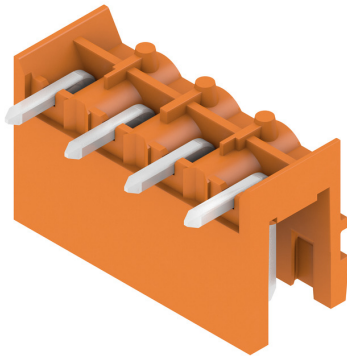
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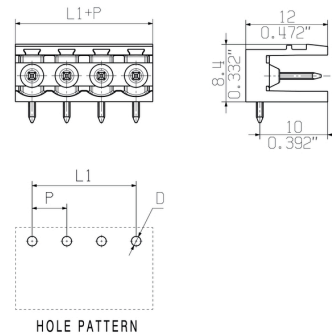
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Drawings

Product image

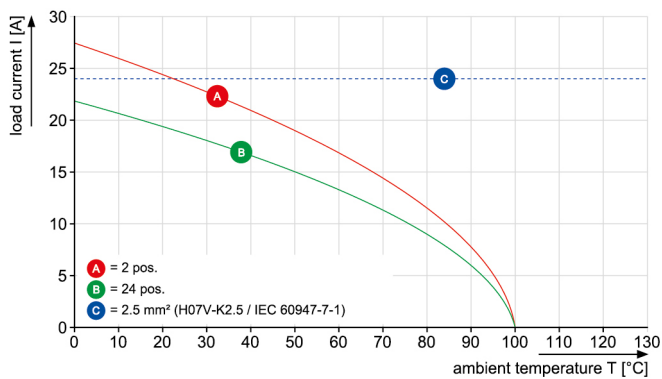


Dimensional drawing



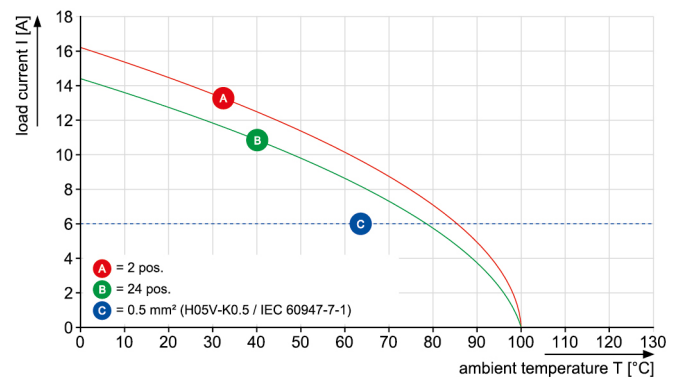
Graph

BLF 5.08HC/./90 - SL 5.08HC/./90



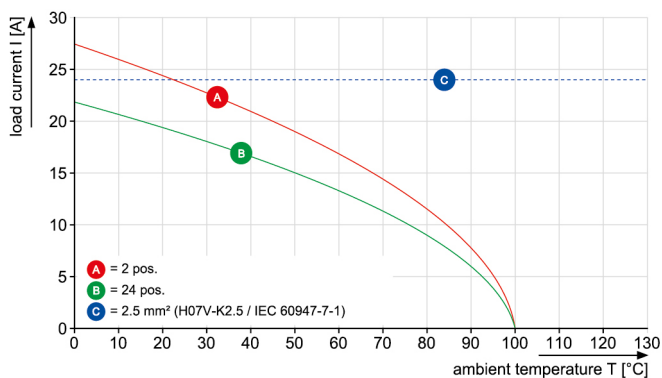
Graph

BLF 5.08HC/./90 - SL 5.08HC/./90



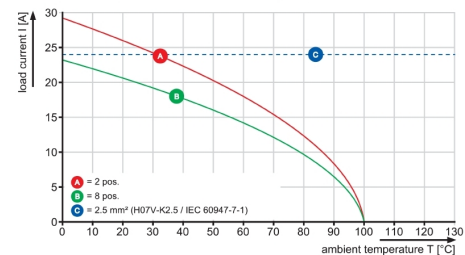
Graph

BLF 5.08HC/./270 - SL 5.08HC/./90



Graph

BLDF 5.08/180 - SL 5.08HC/./90



SL 5.08HC/04/90 3.2SN OR BX

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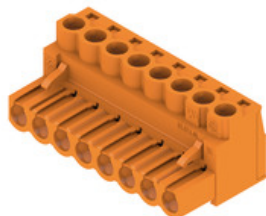
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Mating connector (fully pluggable)

BLZP 5.08HC/180 SN

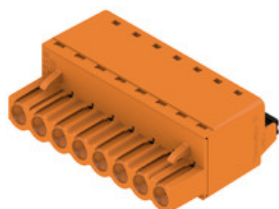


Female plug with clamping-yoke screw system for connecting wires with straight (180°) outlet direction. The female connectors provide space for labelling and can be coded. Fastened by means of a flange or release latch. They also provide an integrated plus/minus screw, protection against faulty insertion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

General ordering data

| Type | BLZP 5.08HC/04/180 SN B ... | Version | Product data | Packaging |
|------------|-----------------------------|--|---|-----------|
| Order No. | 1943830000 | PCB plug-in connector, female plug, 5.08 mm, Number of poles: 4, | IEC: 400 V / 23 A / 0.2 - 4 mm ² | Box |
| GTIN (EAN) | 4032248617869 | 180°, Clamping yoke connection, Clamping range, max. : 4 mm ² , Box | UL: 300 V / 20 A / AWG 26 - AWG 12 | |
| Qty. | 90 pc(s). | | | |
| Type | BLZP 5.08HC/04/180 SN O ... | Version | Product data | Packaging |
| Order No. | 1943600000 | PCB plug-in connector, female plug, 5.08 mm, Number of poles: 4, | IEC: 400 V / 23 A / 0.2 - 4 mm ² | Box |
| GTIN (EAN) | 4032248617593 | 180°, Clamping yoke connection, Clamping range, max. : 4 mm ² , Box | UL: 300 V / 20 A / AWG 26 - AWG 12 | |
| Qty. | 90 pc(s). | | | |

BLF 5.08HC/180 SN



Just as reliable as the millionfold proven original and featuring innovative details:

The BLF 5.08HC PUSH IN version of the BLZP 5.08HC female connector is not only different in terms of connection system; it also has a more compact design. Weidmüller's innovative PUSH IN spring connection system stands for the future of easy and tool-free wire connection. HC = High Current.

In terms of versatility, the BLF 5.08HC offers just as much as the version which served as a model:

- 3 tested-and-proven wire outlet directions provide the usual flexibility for application-specific design
- 4 flange variations and the patented release latch allow the locking concept to be based on the requirements of the user
- Use the BLF 5.08HC and SL 5.08HC plug combination to reach the max. rated specifications

General ordering data

| Type | BLF 5.08HC/04/180 SN BK ... | Version | Product data | Packaging |
|------------|-----------------------------|--|---|-----------|
| Order No. | 1013450000 | PCB plug-in connector, female plug, 5.08 mm, Number of poles: 4, | IEC: 400 V / 24 A / 0.2 - 2.5 mm ² | Box |
| GTIN (EAN) | 4032248721603 | 180°, PUSH IN with actuator, Clamping range, max. : 3.31 mm ² , Box | UL: 300 V / 18.5 A / AWG 26 - AWG 12 | |
| Qty. | 90 pc(s). | | | |
| Type | BLF 5.08HC/04/180 SN OR ... | Version | Product data | Packaging |
| Order No. | 1013710000 | PCB plug-in connector, female plug, 5.08 mm, Number of poles: 4, | IEC: 400 V / 24 A / 0.2 - 2.5 mm ² | Box |
| GTIN (EAN) | 4032248721825 | 180°, PUSH IN with actuator, Clamping range, max. : 3.31 mm ² , Box | UL: 300 V / 18.5 A / AWG 26 - AWG 12 | |
| Qty. | 90 pc(s). | | | |

SL 5.08HC/04/90 3.2SN OR BX

Weidmüller Interface GmbH & Co. KG

Klingenbergstraße 26

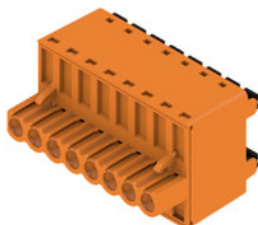
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Mating connector (fully pluggable)

BLDF 5.08/180 SN

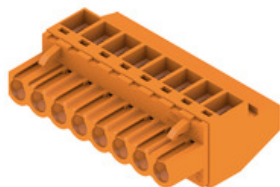


The powerful daisy-chain solution for high-performance signal bus applications is also suitable for 400V auxiliary power chains with 18.5A current-carrying capacity. The large clamping capacity (up to 2.5mm² wire cross-sections) is particularly beneficial for long bus cables or high currents because of the low voltage drop. Four flange variations, including the patented release latch, allow for user-friendly unplugging designs.

General ordering data

| Type | BLDF 5.08/04/180 SN OR ... | Version | Product data | Packaging |
|------------|----------------------------|--|---|-----------|
| Order No. | 1001170000 | PCB plug-in connector, female plug, 5.08 mm, Number of poles: 4, | IEC: 400 V / 20.8 A / 0.2 - 2.5 mm ² | Box |
| GTIN (EAN) | 4032248818075 | 180°, PUSH IN with actuator, Clamping range, max. : 3.31 mm ² , Box | UL: 300 V / 18.5 A / AWG 12 - AWG 26 | |
| Qty. | 60 pc(s). | | | |
| Type | BLDF 5.08/04/180 SN BK ... | Version | Product data | Packaging |
| Order No. | 1000880000 | PCB plug-in connector, female plug, 5.08 mm, Number of poles: 4, | IEC: 400 V / 20.8 A / 0.2 - 2.5 mm ² | Box |
| GTIN (EAN) | 4032248817269 | 180°, PUSH IN with actuator, Clamping range, max. : 3.31 mm ² , Box | UL: 300 V / 18.5 A / AWG 12 - AWG 26 | |
| Qty. | 60 pc(s). | | | |

BLZP 5.08HC/90 SN



Female plugs with clamping-yoke connection for connecting wires with a right-angle (90° or 270°) 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

| Type | BLZP 5.08HC/04/90 SN BK ... | Version | Product data | Packaging |
|------------|-----------------------------|---|---|-----------|
| Order No. | 1948260000 | PCB plug-in connector, female plug, 5.08 mm, Number of poles: 4, | IEC: 400 V / 23 A / 0.2 - 4 mm ² | Box |
| GTIN (EAN) | 4032248624782 | 90°, Clamping yoke connection, Clamping range, max. : 4 mm ² , Box | UL: 300 V / 20 A / AWG 26 - AWG 12 | |
| Qty. | 90 pc(s). | | | |
| Type | BLZP 5.08HC/04/90 SN OR ... | Version | Product data | Packaging |
| Order No. | 1948020000 | PCB plug-in connector, female plug, 5.08 mm, Number of poles: 4, | IEC: 400 V / 23 A / 0.2 - 4 mm ² | Box |
| GTIN (EAN) | 4032248624249 | 90°, Clamping yoke connection, Clamping range, max. : 4 mm ² , Box | UL: 300 V / 20 A / AWG 26 - AWG 12 | |
| Qty. | 90 pc(s). | | | |

SL 5.08HC/04/90 3.2SN OR BX

Weidmüller Interface GmbH & Co. KG

Klingenbergstraße 26

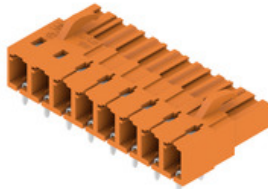
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Mating connector (fully pluggable)

BLL 5.08/90

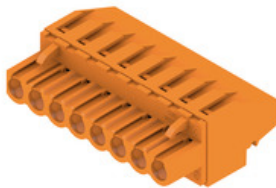


Female header for PCB mounting. The solder pin length is optimised for wave flow soldering.

General ordering data

| Type | BLL 5.08/04/90 3.2 SN O ... | Version | Product data | Packaging |
|------------|-----------------------------|--|-------------------|-----------|
| Order No. | 1622960000 | PCB plug-in connector, female header, closed side, THT solder | IEC: 400 V / 23 A | Box |
| GTIN (EAN) | 4008190194024 | connection, 5.08 mm, Number of poles: 4, 90°, Solder pin length (l): | UL: 300 V / 15 A | |
| Qty. | 90 pc(s). | 3.2 mm, tinned, orange, Box | | |

BLZP 5.08HC/270 SN



Female plugs with clamping-yoke connection for connecting wires with a right-angle (90° or 270°) 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

| Type | BLZP 5.08HC/04/270 SN O ... | Version | Product data | Packaging |
|------------|-----------------------------|--|------------------------------------|-----------|
| Order No. | 1948810000 | PCB plug-in connector, female plug, 5.08 mm, Number of poles: 4, | IEC: 400 V / 23 A / 0.2 - 4 mm² | Box |
| GTIN (EAN) | 4032248626267 | 270°, Clamping yoke connection, Clamping range, max.: 4 mm², Box | UL: 300 V / 20 A / AWG 26 - AWG 12 | |
| Qty. | 90 pc(s). | | | |

SL 5.08HC/04/90 3.2SN OR BX

Weidmüller Interface GmbH & Co. KG

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Mating connector (fully pluggable)

BLDT 5.08

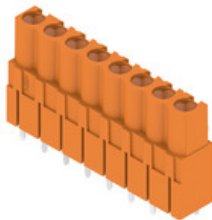


Female plugs with two clamping-yoke screw connections per pole for wire connections with 90° and 270° outlet directions. The female plugs provide space for labelling and can be coded.

General ordering data

| Type | BLDT 5.08/04/- SN OR BX | Version | Product data | Packaging |
|------------|----------------------------|---|---|-----------|
| Order No. | 1644750000 | PCB plug-in connector, female plug, 5.08 mm, Number of poles: 4, | IEC: 400 V / 14 A / 0.2 - 2.5 mm ² | Box |
| GTIN (EAN) | 4008190283964 | 90°/270°, Screw connection, Clamping range, max. : 3.31 mm ² , Box | UL: 300 V / 10 A / AWG 26 - AWG 12 | |
| Qty. | 75 pc(s). | | | |
| Type | BLDT 5.08/04/- SN BK BX | Version | Product data | Packaging |
| Order No. | 1660730000 | PCB plug-in connector, female plug, 5.08 mm, Number of poles: 4, | IEC: 400 V / 14 A / 0.2 - 2.5 mm ² | Box |
| GTIN (EAN) | 4008190417185 | 90°/270°, Screw connection, Clamping range, max. : 3.31 mm ² , Box | UL: 300 V / 10 A / AWG 26 - AWG 12 | |
| Qty. | 75 pc(s). | | | |

BLL 5.08/180



Female header for PCB mounting. The solder pin length is optimised for wave flow soldering.

General ordering data

| Type | BLL 5.08/04/180 3.2 SN ... | Version | Product data | Packaging |
|------------|----------------------------|---|-------------------|-----------|
| Order No. | 1630730000 | PCB plug-in connector, female header, closed side, THT solder | IEC: 400 V / 23 A | Box |
| GTIN (EAN) | 4008190204150 | connection, 5.08 mm, Number of poles: 4, 180°, Solder pin length (l): | UL: 300 V / 15 A | |
| Qty. | 90 pc(s). | 3.2 mm, tinned, orange, Box | | |

SL 5.08HC/04/90 3.2SN OR BX

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Mating connector (fully pluggable)

BLZP 5.08HC/225 SN



Clamping-yoke connection with right-angled (90° or 270°) or angled (225°) 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

| Type | BLZP 5.08HC/04/225 SN O ... | Version | Product data | Packaging |
|------------|-----------------------------|---|---|-----------|
| Order No. | 1946270000 | PCB plug-in connector, female plug, 5.08 mm, Number of poles: 4, | IEC: 400 V / 17.5 A / 0.2 - 4 mm ² | Box |
| GTIN (EAN) | 4032248621842 | 225°, Clamping yoke connection, Clamping range, max.: 4 mm ² , Box | UL: 300 V / 15 A / AWG 26 - AWG 12 | |
| Qty. | 90 pc(s). | | | |
| Type | BLZP 5.08HC/04/225 SN B ... | Version | Product data | Packaging |
| Order No. | 1946580000 | PCB plug-in connector, female plug, 5.08 mm, Number of poles: 4, | IEC: 400 V / 17.5 A / 0.2 - 4 mm ² | Box |
| GTIN (EAN) | 4032248622351 | 225°, Clamping yoke connection, Clamping range, max.: 4 mm ² , Box | UL: 300 V / 15 A / AWG 26 - AWG 12 | |
| Qty. | 90 pc(s). | | | |

BLF 5.08HC/270 SN



Just as reliable as the millionfold proven original and featuring innovative details:

The BLF 5.08HC PUSH IN version of the BLZP 5.08HC female connector is not only different in terms of connection system; it also has a more compact design. Weidmüller's innovative PUSH IN spring connection system stands for the future of easy and tool-free wire connection. HC = High Current.

In terms of versatility, the BLF 5.08HC offers just as much as the version which served as a model:

- 3 tested-and-proven wire outlet directions provide the usual flexibility for application-specific design
- 4 flange variations and the patented release latch allow the locking concept to be based on the requirements of the user
- Use the BLF 5.08HC and SL 5.08HC plug combination to reach the max. rated specifications

General ordering data

| Type | BLF 5.08HC/04/270 SN BK ... | Version | Product data | Packaging |
|------------|-----------------------------|---|---|-----------|
| Order No. | 1981950000 | PCB plug-in connector, female plug, 5.08 mm, Number of poles: 4, | IEC: 400 V / 24 A / 0.2 - 2.5 mm ² | Box |
| GTIN (EAN) | 4032248684649 | 270°, PUSH IN with actuator, Clamping range, max.: 3.31 mm ² , Box | UL: 300 V / 18.5 A / AWG 26 - AWG 12 | |
| Qty. | 90 pc(s). | | | |
| Type | BLF 5.08HC/04/270 SN OR ... | Version | Product data | Packaging |
| Order No. | 1982720000 | PCB plug-in connector, female plug, 5.08 mm, Number of poles: 4, | IEC: 400 V / 24 A / 0.2 - 2.5 mm ² | Box |
| GTIN (EAN) | 4032248686810 | 270°, PUSH IN with actuator, Clamping range, max.: 3.31 mm ² , Box | UL: 300 V / 18.5 A / AWG 26 - AWG 12 | |
| Qty. | 90 pc(s). | | | |

SL 5.08HC/04/90 3.2SN OR BX

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Mating connector (fully pluggable)

BLDT 5.08B

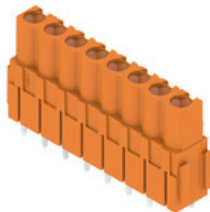


Female plugs with two clamping-yoke screw connections per pole for wire connections with 90° and 270° outlet directions. The female plugs provide space for labelling and can be coded.

General ordering data

| Type | BLDT 5.08/04-B SN BK BX | Version | Product data | Packaging |
|------------|----------------------------|---|---|-----------|
| Order No. | 1673800000 | PCB plug-in connector, female plug, 5.08 mm, Number of poles: 4, | IEC: 400 V / 14 A / 0.2 - 2.5 mm ² | Box |
| GTIN (EAN) | 4008190435530 | 180°, Clamping yoke connection, Clamping range, max. : 3.31 mm ² , | UL: 300 V / 10 A / AWG 26 - AWG 12 | |
| Qty. | 70 pc(s). | Box | | |
| Type | BLDT 5.08/04-B SN OR BX | Version | Product data | Packaging |
| Order No. | 1651760000 | PCB plug-in connector, female plug, 5.08 mm, Number of poles: 4, | IEC: 400 V / 14 A / 0.2 - 2.5 mm ² | Box |
| GTIN (EAN) | 4008190400446 | 90°/270°, Screw connection, Clamping range, max. : 3.31 mm ² , Box | UL: 300 V / 10 A / AWG 26 - AWG 12 | |
| Qty. | 70 pc(s). | | | |

BLL 5.08/180B



Female header for PCB mounting. The solder pin length is optimised for wave flow soldering.

General ordering data

| Type | BLL 5.08/04/180B 3.2SN ... | Version | Product data | Packaging |
|------------|----------------------------|--|-------------------|-----------|
| Order No. | 1682750000 | PCB plug-in connector, female header, Dovetails for fixing blocks, THT | IEC: 400 V / 23 A | Box |
| GTIN (EAN) | 4008190474515 | solder connection, 5.08 mm, Number of poles: 4, 180°, Solder pin | UL: 300 V / 15 A | |
| Qty. | 84 pc(s). | length (l): 3.2 mm, tinned, orange, Box | | |

SL 5.08HC/04/90 3.2SN OR BX

Weidmüller Interface GmbH & Co. KG

Klingenbergstraße 26

D-32758 Detmold

Germany

www.weidmueller.com

Mating connector (fully pluggable)

BLF 5.08HC/90 SN



Just as reliable as the millionfold proven original and featuring innovative details:

The BLF 5.08HC PUSH IN version of the BLZP 5.08HC female connector is not only different in terms of connection system; it also has a more compact design. Weidmüller's innovative PUSH IN spring connection system stands for the future of easy and tool-free wire connection. HC = High Current.

In terms of versatility, the BLF 5.08HC offers just as much as the version which served as a model:

- 3 tested-and-proven wire outlet directions provide the usual flexibility for application-specific design
- 4 flange variations and the patented release latch allow the locking concept to be based on the requirements of the user
- Use the BLF 5.08HC and SL 5.08HC plug combination to reach the max. rated specifications

General ordering data

| Type | BLF 5.08HC/04/90 SN BK ... | Version | Product data | Packaging |
|------------|----------------------------|---|---|-----------|
| Order No. | 1000050001 | PCB plug-in connector, female plug, 5.08 mm, Number of poles: 4, | IEC: 400 V / 24 A / 0.2 - 2.5 mm ² | Box |
| GTIN (EAN) | 4032248689989 | 90°, PUSH IN with actuator, Clamping range, max. : 3.31 mm ² , Box | UL: 300 V / 18.5 A / AWG 26 - AWG 12 | |
| Qty. | 90 pc(s). | | | |
| Type | BLF 5.08HC/04/90 SN OR ... | Version | Product data | Packaging |
| Order No. | 1001550000 | PCB plug-in connector, female plug, 5.08 mm, Number of poles: 4, | IEC: 400 V / 24 A / 0.2 - 2.5 mm ² | Box |
| GTIN (EAN) | 4032248693351 | 90°, PUSH IN with actuator, Clamping range, max. : 3.31 mm ² , Box | UL: 300 V / 18.5 A / AWG 26 - AWG 12 | |
| Qty. | 90 pc(s). | | | |

BLC 5.08R



Female plugs with crimp wire connection system. The female plugs provide space for labelling and can be coded.

General ordering data

| Type | BLC 5.08/04/180R OR BX | Version | Product data | Packaging |
|------------|----------------------------|--|------------------------------------|-----------|
| Order No. | 1610510000 | PCB plug-in connector, female plug, 5.08 mm, Number of poles: 4, | IEC: 400 V / 21 A | Box |
| GTIN (EAN) | 4008190065102 | 180°, Crimp connection, Clamping range, max. : 2.5 mm ² , Box | UL: 300 V / 10 A / AWG 26 - AWG 14 | |
| Qty. | 100 pc(s). | | | |
| Type | BLC 5.08/04/180R BK BX | Version | Product data | Packaging |
| Order No. | 1711980000 | PCB plug-in connector, female plug, 5.08 mm, Number of poles: 4, | IEC: 400 V / 21 A | Box |
| GTIN (EAN) | 4008190934996 | 180°, Crimp connection, Clamping range, max. : 2.5 mm ² , Box | UL: 300 V / 10 A / AWG 26 - AWG 14 | |
| Qty. | 100 pc(s). | | | |

SL 5.08HC/04/90 3.2SN OR BX

Weidmüller Interface GmbH & Co. KG

Klingenbergstraße 26

D-32758 Detmold

Germany

www.weidmueller.com

Mating connector (fully pluggable)

BLZP 5.08HC/225B SN



Clamping-yoke connection with right-angled (90° or 270°) or angled (225°) 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

| Type | BLZP 5.08HC/04/225B SN ... | Version | Product data | Packaging |
|------------|----------------------------|--|---|-----------|
| Order No. | 1945770000 | PCB plug-in connector, female plug, 5.08 mm, Number of poles: 4, | IEC: 400 V / 17.5 A / 0.2 - 4 mm ² | Box |
| GTIN (EAN) | 4032248621248 | 225°, Clamping yoke connection, Clamping range, max. : 4 mm ² , Box | UL: 300 V / 15 A / AWG 26 - AWG 12 | |
| Qty. | 78 pc(s). | | | |
| Type | BLZP 5.08HC/04/225B SN ... | Version | Product data | Packaging |
| Order No. | 1946000000 | PCB plug-in connector, female plug, 5.08 mm, Number of poles: 4, | IEC: 400 V / 17.5 A / 0.2 - 4 mm ² | Box |
| GTIN (EAN) | 4032248621521 | 225°, Clamping yoke connection, Clamping range, max. : 4 mm ² , Box | UL: 300 V / 15 A / AWG 26 - AWG 12 | |
| Qty. | 78 pc(s). | | | |

BLC 5.08BR



Female plugs with crimp wire connection system. The female plugs provide space for labelling and can be coded.

General ordering data

| Type | BLC 5.08/04/180BR BK BX | Version | Product data | Packaging |
|------------|----------------------------|--|------------------------------------|-----------|
| Order No. | 1712130000 | PCB plug-in connector, female plug, 5.08 mm, Number of poles: 4, | IEC: 400 V / 21 A | Box |
| GTIN (EAN) | 4008190935146 | 180°, Crimp connection, Clamping range, max. : 2.5 mm ² , Box | UL: 300 V / 10 A / AWG 26 - AWG 14 | |
| Qty. | 100 pc(s). | | | |
| Type | BLC 5.08/04/180BR OR BX | Version | Product data | Packaging |
| Order No. | 1649390000 | PCB plug-in connector, female plug, 5.08 mm, Number of poles: 4, | IEC: 400 V / 21 A | Box |
| GTIN (EAN) | 4008190294502 | 180°, Crimp connection, Clamping range, max. : 2.5 mm ² , Box | UL: 300 V / 10 A / AWG 26 - AWG 14 | |
| Qty. | 100 pc(s). | | | |

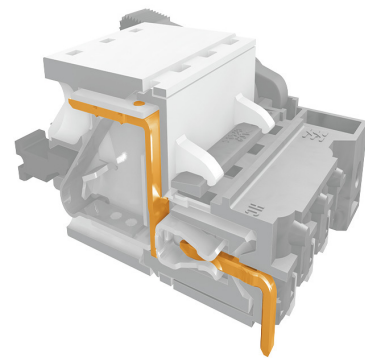
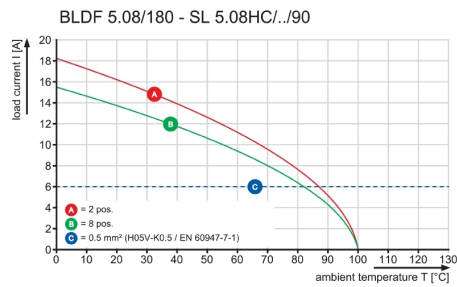
SL 5.08HC/04/90 3.2SN OR BX

Weidmüller Interface GmbH & Co. KG
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Drawings

Graph



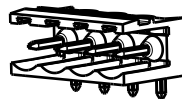
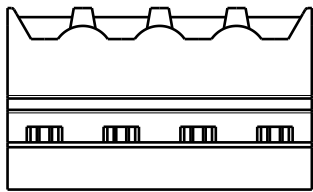
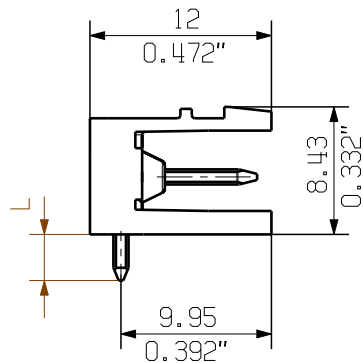
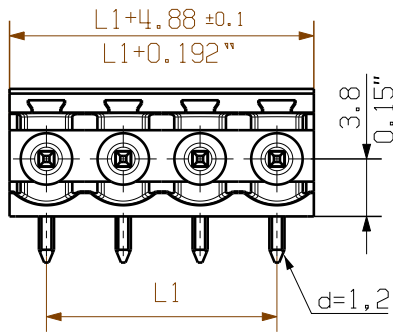
Safe power transmission
Proven properties

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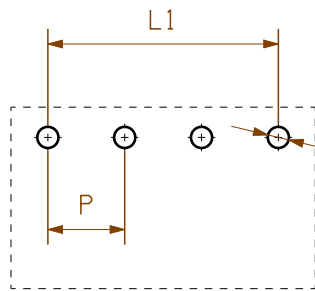
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Dimensions without tolerances are no check dimensions

The English version is binding



1/1



HOLE PATTERN

PCB-Ø 1,4 TILL POLE 8
PCB-Ø 1,5 FROM POLE 9

For the mounting of PCBs, it should be noted that the rated data relates only to the PCB components alone.

The necessary creepage and clearance paths must be observed in connection with the respective applicant in accordance to IEC 664 / VDE 0110.

The current-carrying capacity and pitch tolerance is to be determined according to DIN IEC 326 part 3 very fine.

Weidmüller PCB components are tested to the DIN EN 61984 standard, and are valid for its field of application.

Provided that the components are used to the intended purpose, all requirements with respect to the occurring of electrical, mechanical, thermic and corrosive stress will be satisfied.

P=PITCH

SHOWN: SL 5.08HC/04/90

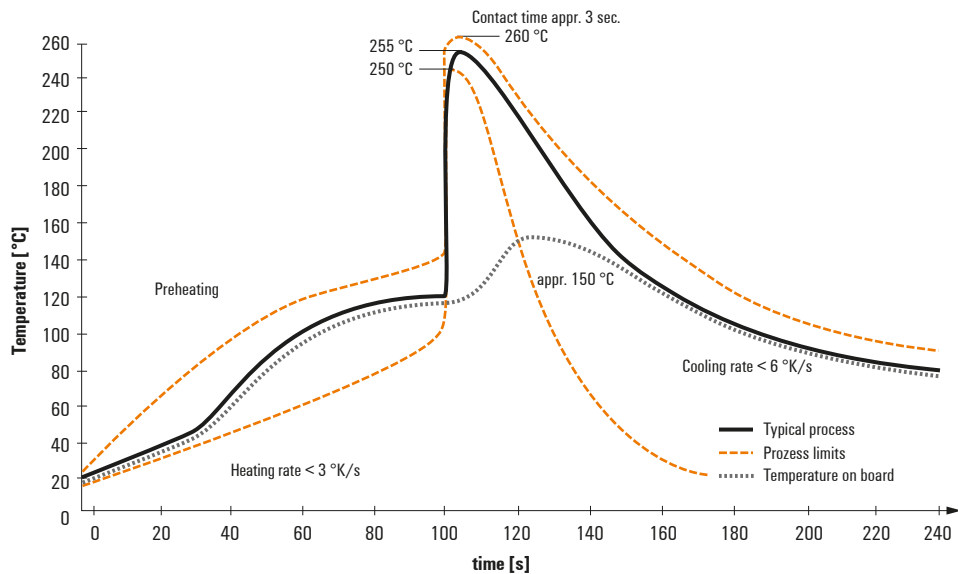
| STIFTLAENGE L PIN LENGTH L | TOLERANZ TOLERANCE | | | |
|-------------------------------|-----------------------|----|---------|-----------|
| 3,2 | 0,1 -0,3 | 24 | 116,84 | 4,600 |
| 4,5 | 0,1 -0,3 | 23 | 111,76 | 4,400 |
| | | 22 | 106,68 | 4,200 |
| | | 21 | 101,60 | 4,000 |
| | | 20 | 96,52 | 3,800 |
| | | 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] |

| | | | | | | | | |
|---------------|----------------|-------------------------------|----------|--|--------------------------|----------------|---------------|-------------|
| | DIN ISO 2768-m | 101482/5 07.02.18 HELIS_MA | 00 | Weidmüller | Cat.no.: . | 3 48753 | Drawing no. . | Issue no. . |
| | Modification | Date | Name | | | | | |
| | Drawn | 18.10.2010 | HERTEL_S | SL 5.08HC/../90... STIFTELEISTE MALE HEADER | Product file: SL-HP 5.08 | 7377 | | |
| | Responsible | | HERTEL_S | | | | | |
| | Checked | 27.02.2018 | HELIS_MA | | | | | |
| Supersedes: . | Approved | | LANG_T | | | | | |

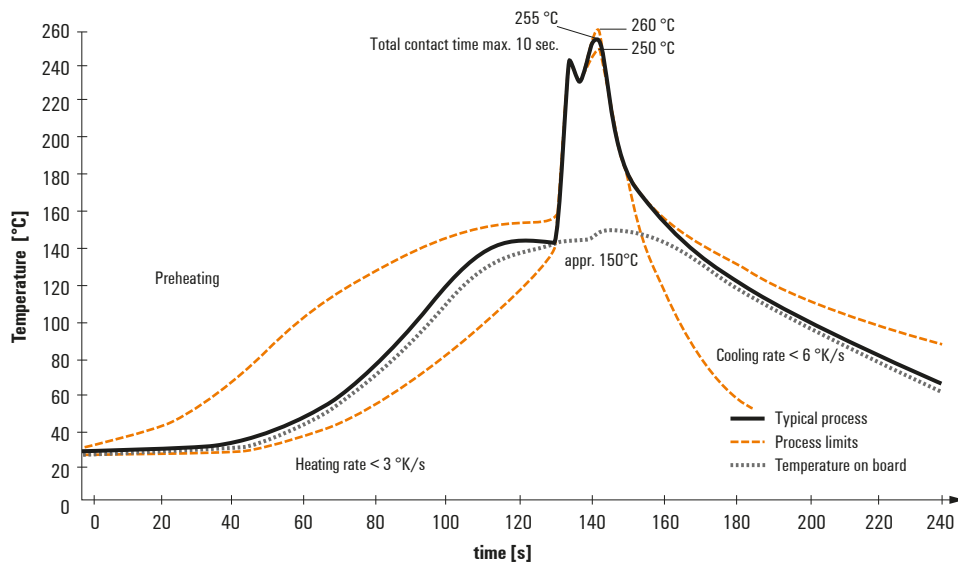
Recommended wave soldering profiles

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Single Wave:



Double Wave:



Wave soldering profiles

Wired connection elements should be processed in accordance with the DIN EN 61760-1 standard. We have included two recommendations for practical wave soldering profiles, with which Weidmüller PCB terminals and connectors are qualified.

When choosing a suitable profile for your application, the following factors also need to be considered:

- PCB thickness
- Proportion of Cu in the layers
- Single/double-sided assembly
- Product range
- Heating and cooling rates

The single and double wave profiles each indicate the recommended operating range, including the maximum soldering temperature of 260°C. In practice, the maximum soldering temperature is quite often well below the above maximum profile.

We reserve the right to make technical changes.