

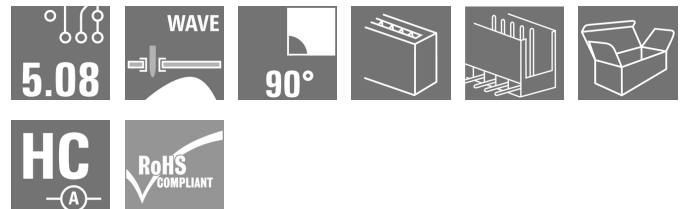
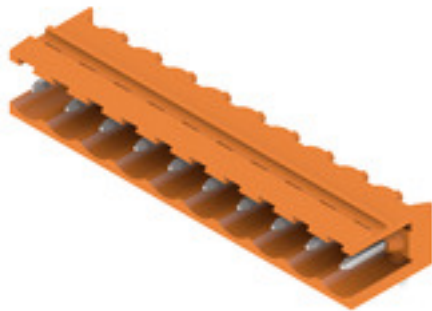
**SL 5.08HC/10/90 3.2SN OR BX****Weidmüller Interface GmbH & Co. KG**

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: 10, 90°, Solder pin length (l): 3.2 mm, tinned, orange, Box
Order No.	<a href="#">1146900000</a>
Type	SL 5.08HC/10/90 3.2SN OR BX
GTIN (EAN)	4050118051421
Qty.	50 pc(s).
Product data	IEC: 400 V / 24 A UL: 300 V / 18.5 A
Packaging	Box

Creation date November 22, 2023 9:46:41 PM CET

## SL 5.08HC/10/90 3.2SN OR BX

Weidmüller Interface GmbH &amp; Co. KG

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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	50.6 mm
Width (inches)	1.992 inch	Net weight	3.63 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	10	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)	1.5 mm	Solder eyelet hole diameter tolerance (D)+	0, 1 mm
L1 in mm	45.72 mm	L1 in inches	1.8 "
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/10/90 3.2SN OR BX

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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	169 mm
VPE width	117 mm	VPE height	38 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](http://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](#)  
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[PO OMNIMATE EN](#)  
[PO OMNIMATE EN](#)

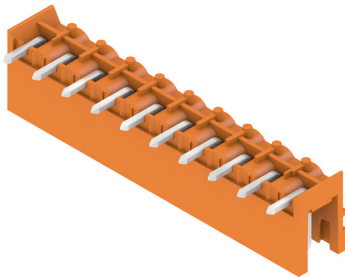
## SL 5.08HC/10/90 3.2SN OR BX

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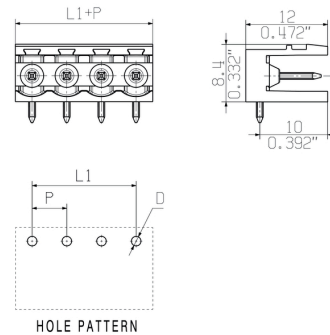
[www.weidmueller.com](http://www.weidmueller.com)

## Drawings

### Product image

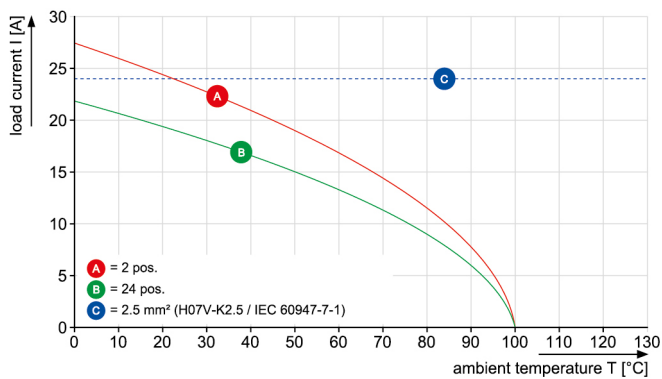


### Dimensional drawing



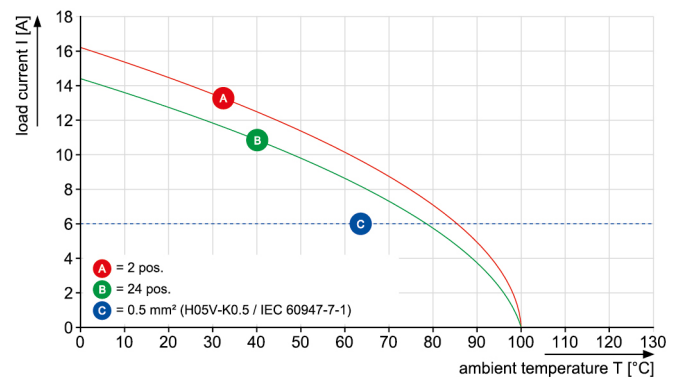
### Graph

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



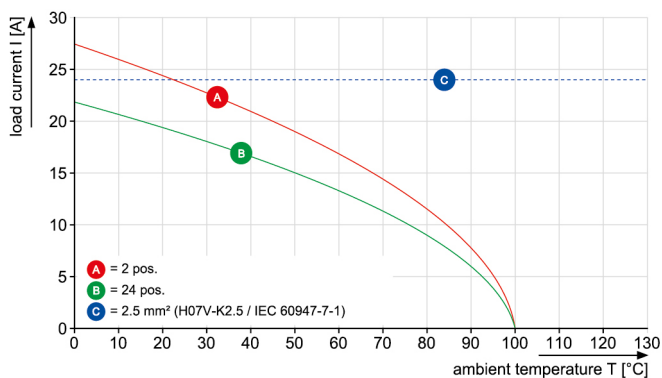
### Graph

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



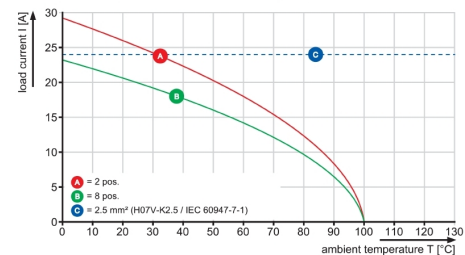
### Graph

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



### Graph

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



## SL 5.08HC/10/90 3.2SN OR BX

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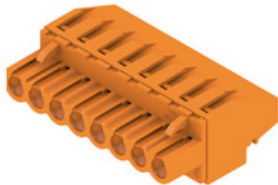
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Germany

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## Mating connector (fully pluggable)

## 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/10/270 SN B ...	Version	Product data	Packaging
Order No.	<a href="#">1949100000</a>	PCB plug-in connector, female plug, 5.08 mm, Number of poles: 10,	IEC: 400 V / 23 A / 0.2 - 4 mm <sup>2</sup>	Box
GTIN (EAN)	4032248626557	270°, Clamping yoke connection, Clamping range, max. : 4 mm <sup>2</sup> , Box	UL: 300 V / 20 A / AWG 26 - AWG 12	
Qty.	36 pc(s).			
Type	BLZP 5.08HC/10/270 SN O ...	Version	Product data	Packaging
Order No.	<a href="#">1948870000</a>	PCB plug-in connector, female plug, 5.08 mm, Number of poles: 10,	IEC: 400 V / 23 A / 0.2 - 4 mm <sup>2</sup>	Box
GTIN (EAN)	4032248626328	270°, Clamping yoke connection, Clamping range, max. : 4 mm <sup>2</sup> , Box	UL: 300 V / 20 A / AWG 26 - AWG 12	
Qty.	36 pc(s).			

## 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. The 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/10/225 SN O ...	Version	Product data	Packaging
Order No.	<a href="#">1946330000</a>	PCB plug-in connector, female plug, 5.08 mm, Number of poles: 10,	IEC: 400 V / 17.5 A / 0.2 - 4 mm <sup>2</sup>	Box
GTIN (EAN)	4032248621903	225°, Clamping yoke connection, Clamping range, max. : 4 mm <sup>2</sup> , Box	UL: 300 V / 15 A / AWG 26 - AWG 12	
Qty.	36 pc(s).			
Type	BLZP 5.08HC/10/225 SN B ...	Version	Product data	Packaging
Order No.	<a href="#">1946640000</a>	PCB plug-in connector, female plug, 5.08 mm, Number of poles: 10,	IEC: 400 V / 17.5 A / 0.2 - 4 mm <sup>2</sup>	Box
GTIN (EAN)	4032248622412	225°, Clamping yoke connection, Clamping range, max. : 4 mm <sup>2</sup> , Box	UL: 300 V / 15 A / AWG 26 - AWG 12	
Qty.	36 pc(s).			

## SL 5.08HC/10/90 3.2SN OR BX

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## Mating connector (fully pluggable)

## BLDT 5.08B

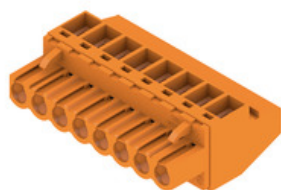


Female plugs with two clamping-yoke screw connections per pole for wire connections with 90° and 270° outlet directions. The female plugs provide space for labelling and can be coded.

## General ordering data

Type	BLDT 5.08/10/-B SN OR BX	Version	Product data	Packaging
Order No.	<a href="#">1651820000</a>	PCB plug-in connector, female plug, 5.08 mm, Number of poles: 10,	IEC: 400 V / 14 A / 0.2 - 2.5 mm <sup>2</sup>	Box
GTIN (EAN)	4008190400507	90°/270°, Screw connection, Clamping range, max. : 3.31 mm <sup>2</sup> , Box	UL: 300 V / 10 A / AWG 26 - AWG 12	
Qty.	25 pc(s).			
Type	BLDT 5.08/10/-B SN BK BX	Version	Product data	Packaging
Order No.	<a href="#">1673860000</a>	PCB plug-in connector, female plug, 5.08 mm, Number of poles: 10,	IEC: 400 V / 14 A / 0.2 - 2.5 mm <sup>2</sup>	Box
GTIN (EAN)	4008190435592	180°, Clamping yoke connection, Clamping range, max. : 3.31 mm <sup>2</sup> , Box	UL: 300 V / 10 A / AWG 26 - AWG 12	
Qty.	50 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/10/90 SN BK ...	Version	Product data	Packaging
Order No.	<a href="#">1948320000</a>	PCB plug-in connector, female plug, 5.08 mm, Number of poles: 10,	IEC: 400 V / 23 A / 0.2 - 4 mm <sup>2</sup>	Box
GTIN (EAN)	4032248624843	90°, Clamping yoke connection, Clamping range, max. : 4 mm <sup>2</sup> , Box	UL: 300 V / 20 A / AWG 26 - AWG 12	
Qty.	36 pc(s).			
Type	BLZP 5.08HC/10/90 SN OR ...	Version	Product data	Packaging
Order No.	<a href="#">1948080000</a>	PCB plug-in connector, female plug, 5.08 mm, Number of poles: 10,	IEC: 400 V / 23 A / 0.2 - 4 mm <sup>2</sup>	Box
GTIN (EAN)	4032248624300	90°, Clamping yoke connection, Clamping range, max. : 4 mm <sup>2</sup> , Box	UL: 300 V / 20 A / AWG 26 - AWG 12	
Qty.	36 pc(s).			

## SL 5.08HC/10/90 3.2SN OR BX

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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 5.08/10/- SN OR BX	Version	Product data	Packaging
Order No.	<a href="#">1644810000</a>	PCB plug-in connector, female plug, 5.08 mm, Number of poles: 10,	IEC: 400 V / 14 A / 0.2 - 2.5 mm <sup>2</sup>	Box
GTIN (EAN)	4008190284022	90°/270°, Screw connection, Clamping range, max. : 3.31 mm <sup>2</sup> , Box	UL: 300 V / 10 A / AWG 26 - AWG 12	
Qty.	30 pc(s).			
Type	BLDT 5.08/10/- SN BK BX	Version	Product data	Packaging
Order No.	<a href="#">1660790000</a>	PCB plug-in connector, female plug, 5.08 mm, Number of poles: 10,	IEC: 400 V / 14 A / 0.2 - 2.5 mm <sup>2</sup>	Box
GTIN (EAN)	4008190417246	180°, Clamping yoke connection, Clamping range, max. : 3.31 mm <sup>2</sup> , Box	UL: 300 V / 10 A / AWG 26 - AWG 12	
Qty.	50 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 5.08/10/180R BK BX	Version	Product data	Packaging
Order No.	<a href="#">1712040000</a>	PCB plug-in connector, female plug, 5.08 mm, Number of poles: 10,	IEC: 400 V / 21 A	Box
GTIN (EAN)	4008190935054	180°, Crimp connection, Clamping range, max. : 2.5 mm <sup>2</sup> , Box	UL: 300 V / 10 A / AWG 26 - AWG 14	
Qty.	50 pc(s).			
Type	BLC 5.08/10/180R OR BX	Version	Product data	Packaging
Order No.	<a href="#">1610570000</a>	PCB plug-in connector, female plug, 5.08 mm, Number of poles: 10,	IEC: 400 V / 21 A	Box
GTIN (EAN)	4008190128180	180°, Crimp connection, Clamping range, max. : 2.5 mm <sup>2</sup> , Box	UL: 300 V / 10 A / AWG 26 - AWG 14	
Qty.	50 pc(s).			



## SL 5.08HC/10/90 3.2SN OR BX

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## Mating connector (fully pluggable)

## 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.

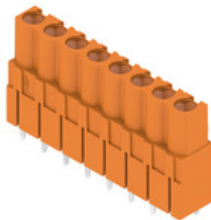
In terms of versatility, the BLF 5.08HC offers just as much as the version which served as a model:

- 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/10/270 SN OR ...	Version	Product data	Packaging
Order No.	<a href="#">1982780000</a>	PCB plug-in connector, female plug, 5.08 mm, Number of poles: 10,	IEC: 400 V / 24 A / 0.2 - 2.5 mm <sup>2</sup>	Box
GTIN (EAN)	4032248686872	270°, PUSH IN with actuator, Clamping range, max.: 3.31 mm <sup>2</sup> , Box	UL: 300 V / 18.5 A / AWG 26 - AWG	
Qty.	36 pc(s).		12	
Type	BLF 5.08HC/10/270 SN BK ...	Version	Product data	Packaging
Order No.	<a href="#">1982010000</a>	PCB plug-in connector, female plug, 5.08 mm, Number of poles: 10,	IEC: 400 V / 24 A / 0.2 - 2.5 mm <sup>2</sup>	Box
GTIN (EAN)	4032248684700	270°, PUSH IN, Spring connection, Clamping range, max.: 3.31 mm <sup>2</sup> , UL: 300 V / 18.5 A / AWG 26 - AWG		
Qty.	36 pc(s).	Box	12	

## BLL 5.08/180



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

## General ordering data

Type	BLL 5.08/10/180 3.2 SN ...	Version	Product data	Packaging
Order No.	<a href="#">1630790000</a>	PCB plug-in connector, female header, closed side, THT solder	IEC: 400 V / 23 A	Box
GTIN (EAN)	4008190204228	connection, 5.08 mm, Number of poles: 10, 180°, Solder pin length	UL: 300 V / 15 A	
Qty.	36 pc(s).	(I): 3.2 mm, tinned, orange, Box		

## SL 5.08HC/10/90 3.2SN OR BX

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## 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/10/225B SN ...	Version	Product data	Packaging
Order No.	<a href="#">1945830000</a>	PCB plug-in connector, female plug, 5.08 mm, Number of poles: 10,	IEC: 400 V / 17.5 A / 0.2 - 4 mm <sup>2</sup>	Box
GTIN (EAN)	4032248621309	225°, Clamping yoke connection, Clamping range, max. : 4 mm <sup>2</sup> , Box	UL: 300 V / 15 A / AWG 26 - AWG 12	
Qty.	30 pc(s).			
Type	BLZP 5.08HC/10/225B SN ...	Version	Product data	Packaging
Order No.	<a href="#">1946060000</a>	PCB plug-in connector, female plug, 5.08 mm, Number of poles: 10,	IEC: 400 V / 17.5 A / 0.2 - 4 mm <sup>2</sup>	Box
GTIN (EAN)	4032248621590	225°, Clamping yoke connection, Clamping range, max. : 4 mm <sup>2</sup> , Box	UL: 300 V / 15 A / AWG 26 - AWG 12	
Qty.	30 pc(s).			

## 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/10/180 SN B ...	Version	Product data	Packaging
Order No.	<a href="#">1943890000</a>	PCB plug-in connector, female plug, 5.08 mm, Number of poles: 10,	IEC: 400 V / 23 A / 0.2 - 4 mm <sup>2</sup>	Box
GTIN (EAN)	4032248618002	180°, Clamping yoke connection, Clamping range, max. : 4 mm <sup>2</sup> , Box	UL: 300 V / 20 A / AWG 26 - AWG 12	
Qty.	36 pc(s).			
Type	BLZP 5.08HC/10/180 SN O ...	Version	Product data	Packaging
Order No.	<a href="#">1943660000</a>	PCB plug-in connector, female plug, 5.08 mm, Number of poles: 10,	IEC: 400 V / 23 A / 0.2 - 4 mm <sup>2</sup>	Box
GTIN (EAN)	4032248617678	180°, Clamping yoke connection, Clamping range, max. : 4 mm <sup>2</sup> , Box	UL: 300 V / 20 A / AWG 26 - AWG 12	
Qty.	36 pc(s).			

## SL 5.08HC/10/90 3.2SN OR BX

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## Mating connector (fully pluggable)

## BLL 5.08/180B



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

## General ordering data

Type	BLL 5.08/10/180B 3.2SN ...	Version	Product data	Packaging
Order No.	<a href="#">1682810000</a>	PCB plug-in connector, female header, Dovetails for fixing blocks, THT	IEC: 400 V / 23 A	Box
GTIN (EAN)	4008190474577	solder connection, 5.08 mm, Number of poles: 10, 180°, Solder pin	UL: 300 V / 15 A	
Qty.	30 pc(s).	length (l): 3.2 mm, tinned, orange, Box		

## 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/10/90 SN OR ...	Version	Product data	Packaging
Order No.	<a href="#">1001610000</a>	PCB plug-in connector, female plug, 5.08 mm, Number of poles: 10,	IEC: 400 V / 24 A / 0.2 - 2.5 mm <sup>2</sup>	Box
GTIN (EAN)	4032248693412	90°, PUSH IN with actuator, Clamping range, max. : 3.31 mm <sup>2</sup> , Box	UL: 300 V / 18.5 A / AWG 26 - AWG 12	
Qty.	36 pc(s).			
Type	BLF 5.08HC/10/90 SN BK ...	Version	Product data	Packaging
Order No.	<a href="#">1000110001</a>	PCB plug-in connector, female plug, 5.08 mm, Number of poles: 10,	IEC: 400 V / 24 A / 0.2 - 2.5 mm <sup>2</sup>	Box
GTIN (EAN)	4032248690046	90°, PUSH IN with actuator, Clamping range, max. : 3.31 mm <sup>2</sup> , Box	UL: 300 V / 18.5 A / AWG 26 - AWG 12	
Qty.	36 pc(s).			

## SL 5.08HC/10/90 3.2SN OR BX

Weidmüller Interface GmbH &amp; Co. KG

Klingenbergstraße 26

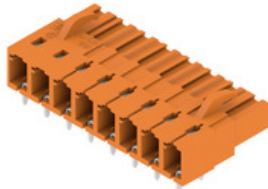
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Germany

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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 5.08/10/90 3.2 SN O ...	Version	Product data	Packaging
Order No.	<a href="#">1623020000</a>	PCB plug-in connector, female header, closed side, THT solder	IEC: 400 V / 23 A	Box
GTIN (EAN)	4008190194079	connection, 5.08 mm, Number of poles: 10, 90°, Solder pin length (l):	UL: 300 V / 15 A	
Qty.	36 pc(s).	3.2 mm, tinned, orange, Box		

## 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 5.08/10/180BR OR BX	Version	Product data	Packaging
Order No.	<a href="#">1649450000</a>	PCB plug-in connector, female plug, 5.08 mm, Number of poles: 10,	IEC: 400 V / 21 A	Box
GTIN (EAN)	4008190294564	180°, Crimp connection, Clamping range, max. : 2.5 mm², Box	UL: 300 V / 10 A / AWG 26 - AWG 14	
Qty.	50 pc(s).			
Type	BLC 5.08/10/180BR BK BX	Version	Product data	Packaging
Order No.	<a href="#">1712190000</a>	PCB plug-in connector, female plug, 5.08 mm, Number of poles: 10,	IEC: 400 V / 21 A	Box
GTIN (EAN)	4008190935207	180°, Crimp connection, Clamping range, max. : 2.5 mm², Box	UL: 300 V / 10 A / AWG 26 - AWG 14	
Qty.	50 pc(s).			

## SL 5.08HC/10/90 3.2SN OR BX

Weidmüller Interface GmbH &amp; Co. KG

Klingenbergstraße 26

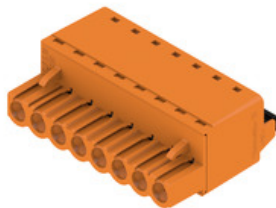
D-32758 Detmold

Germany

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## Mating connector (fully pluggable)

## 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/10/180 SN BK ...	Version	Product data	Packaging
Order No.	<a href="#">1013520000</a>	PCB plug-in connector, female plug, 5.08 mm, Number of poles: 10,	IEC: 400 V / 24 A / 0.2 - 2.5 mm <sup>2</sup>	Box
GTIN (EAN)	4032248721665	180°, PUSH IN with actuator, Clamping range, max.: 3.31 mm <sup>2</sup> , Box	UL: 300 V / 18.5 A / AWG 26 - AWG	
Qty.	36 pc(s).		12	
Type	BLF 5.08HC/10/180 SN OR ...	Version	Product data	Packaging
Order No.	<a href="#">1013770000</a>	PCB plug-in connector, female plug, 5.08 mm, Number of poles: 10,	IEC: 400 V / 24 A / 0.2 - 2.5 mm <sup>2</sup>	Box
GTIN (EAN)	4032248721887	180°, PUSH IN with actuator, Clamping range, max.: 3.31 mm <sup>2</sup> , Box	UL: 300 V / 18.5 A / AWG 26 - AWG	
Qty.	36 pc(s).		12	

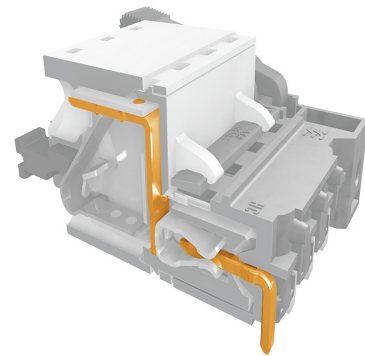
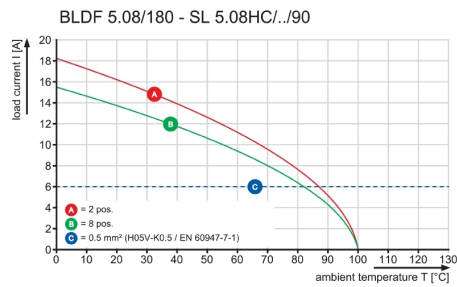
## SL 5.08HC/10/90 3.2SN OR BX

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

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# Drawings

## Graph



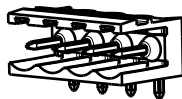
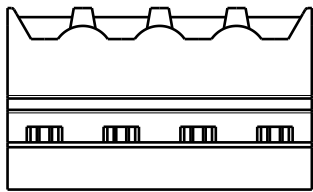
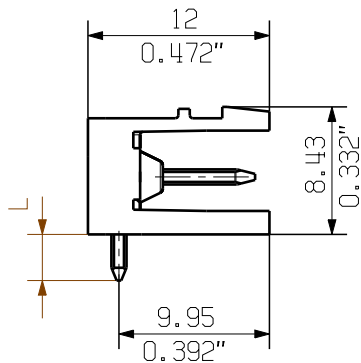
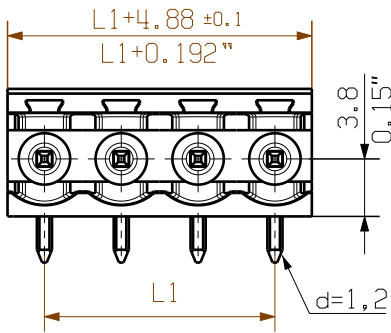
Safe power transmission  
Proven properties

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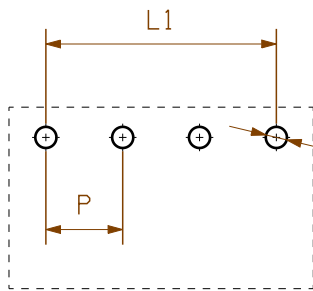
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Dimensions without tolerances are no check dimensions

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		Cat.no.: .	
	Modification		Date		Name	
	Drawn	18.10.2010	HERTEL_S		<b>SL 5.08HC/.. /90...</b> STIFTELEISTE MALE HEADER	
	Responsible		HERTEL_S			
	Checked	27.02.2018	HELIS_MA			
Supersedes: .	Approved		LANG_T		Product file: SL-HP 5.08	

Weidmüller

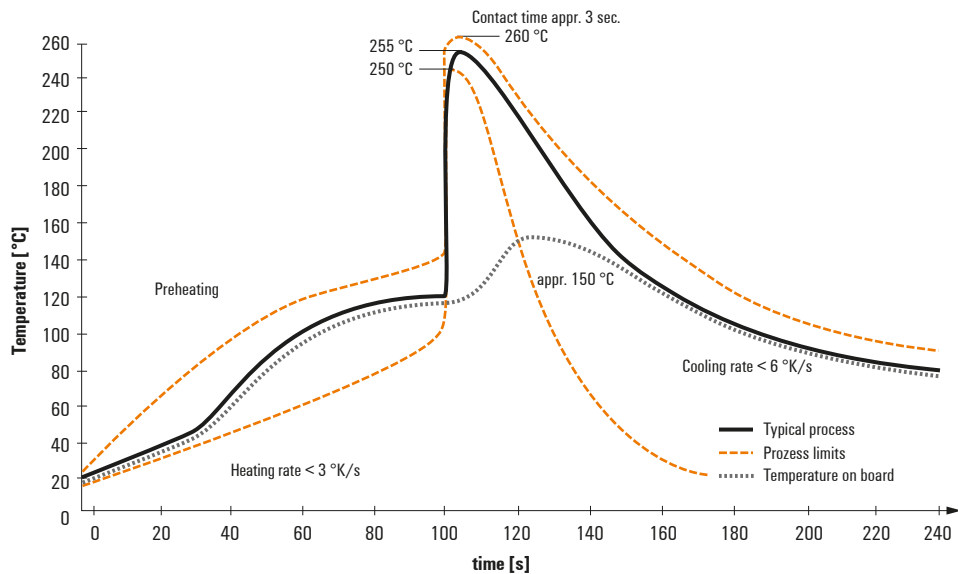
3 48753 04  
Drawing no. Issue no.  
Sheet 01 of 05 sheets

7377

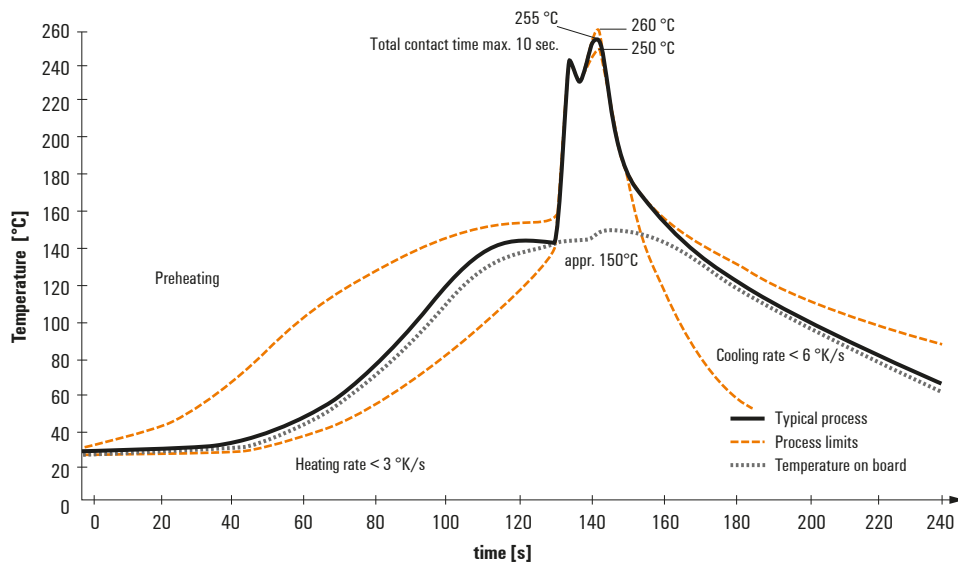
## Recommended wave soldering profiles

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Fax: +49 5231 14-292083  
[www.weidmueller.com](http://www.weidmueller.com)

### 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.