

**OMNIMATE Signal - series BL/SL 5.08**  
**SLD 5.08V/12/180 3.2SN OR BX****Weidmüller Interface GmbH & Co. KG**

Klingenbergstraße 26

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Germany

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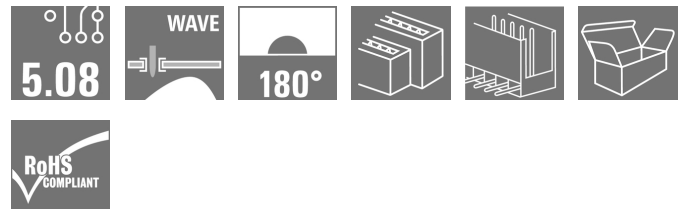
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Similar to illustration

Pin headers with solder pin length optimised for wave flow soldering. The male connectors provide space for labelling and can be coded. HC = High Current.

**General ordering data**

Type	SLD 5.08V/12/180 3.2SN OR BX
Order No.	<a href="#">1725690000</a>
Version	PCB plug-in connector, male header, open side, THT solder connection, 5.08 mm, Number of poles: 12, 180°, Solder pin length (l): 3.2 mm, tinned, orange, Box
GTIN (EAN)	4032248061983
Qty.	50 pc(s).
Product data	IEC: 400 V / 14 A UL: 300 V / 10 A
Packaging	Box

Creation date May 3, 2020 10:57:42 AM CEST

## OMNIMATE Signal - series BL/SL 5.08 SLD 5.08V/12/180 3.2SN OR BX

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### Technical data

#### Dimensions and weights

Width	33.02 mm	Width (inches)	1.3 inch
Height	25.4 mm	Height (inches)	1 inch
Height of lowest version	22.2 mm	Depth	26.2 mm
Depth (inches)	1.031 inch	Net weight	10.56 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 inch	Outgoing elbow	180°
Number of poles	12	Number of solder pins per pole	1
Solder pin length (l)	3.2 mm	Solder pin length tolerance	+0.1 / -0.3 mm
Tolerance of solder pin position	± 0.1 mm	Solder pin dimensions	d = 1.2 mm, Octagonal
Solder pin dimensions = d tolerance	0 / -0.03 mm	Solder eyelet hole diameter (D)	1.3 mm
Solder eyelet hole diameter tolerance (D)+	0.1 mm	L1 in mm	25.4 mm
L1 in inches	1 inch	Number of rows	2
Pin series quantity	2	Volume resistance	≤ 5mΩ
Can be coded	Yes	Plugging cycles	25

#### Material data

Insulating material	PBT	Colour	orange
Colour chart (similar)	RAL 2000	Insulating material group	IIIa
Comparative Tracking Index (CTI)	≥ 200	Insulation strength	≥ 10 <sup>8</sup> Ω
UL 94 flammability rating	V-0	GWFI	960 °C
Contact material	CuSn	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.	-25 °C	Storage temperature, max.	50 °C
Max. relative humidity during storage	70 %	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)	14 A
Rated current, min. number of poles (Tu=40°C)	12 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		


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## Technical data

### Rated data acc. to CSA

Institute (CSA)		Certificate No. (CSA)	
		200039-1121690	
Rated voltage (Use group B / CSA)	300 V	Rated voltage (Use group D / CSA)	300 V
Rated current (Use group B / CSA)	10 A	Rated current (Use group D / CSA)	10 A
Reference to approval values	Specifications are maximum values, details - see approval certificate.		

### Rated data acc. to UL 1059

Institute (UR)		Certificate No. (UR)	
		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)	10 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	90 mm
VPE width	110 mm	VPE height	185 mm

### Classifications

ETIM 6.0	EC002637	ETIM 7.0	EC002637
eClass 9.0	27-44-04-02	eClass 9.1	27-44-04-02
eClass 10.0	27-44-04-02	UNSPSC	30-21-18-10

### Notes

Notes	<ul style="list-style-type: none"> <li>• Additional colours on request</li> <li>• Rated current related to rated cross-section &amp; min. No. of poles.</li> <li>• Spacing between rows: see hole layout</li> <li>• P on drawing = pitch</li> <li>• 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.</li> </ul>
	IPC conformity
Conformity: The products are developed, manufactured and delivered according international recognized standards and norms and comply with the assured properties in the data sheet resp. fulfill decorative properties in accordance with IPC-A-610 "Class 2". Further claims on the products can be evaluated on request.	

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# Technical data

## Approvals

Approvals



ROHS

Conform

## Downloads

Approval/Certificate/Document of  
Conformity

[Declaration of the Manufacturer](#)

Brochure/Catalogue

[FL DRIVES EN](#)  
[MB DEVICE MANUF. EN](#)  
[FL DRIVES DE](#)  
[CAT 2 PORTFOLIOGUIDE EN](#)  
[FL BUILDING SAFETY EN](#)  
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[FL ELEVATOR EN](#)  
[FL POWER SUPPLY EN](#)  
[FL 72H SAMPLE SER EN](#)  
[PO OMNIMATE EN](#)

Engineering Data

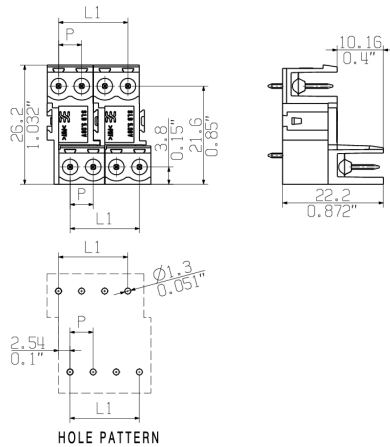
[STEP](#)

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# Drawings

## Dimensional drawing



## OMNIMATE Signal - series BL/SL 5.08 SLD 5.08V/12/180 3.2SN OR BX

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### Mating connector (fully pluggable)

#### BLDF 5.08/180 SN

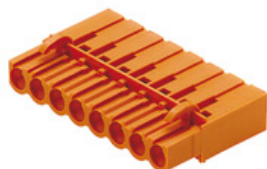


The powerful daisy-chain solution for high-performance signal bus applications is also suitable for 400V auxiliary power chains with 18.5A current-carrying capacity. The large clamping capacity (up to 2.5mm<sup>2</sup> wire cross-sections) is particularly beneficial for long bus cables or high currents 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 5.08/06/180 SN OR ...	Version	Product data	Packaging
Order No.	<a href="#">1001190000</a>	PCB plug-in connector, female plug, 5.08 mm, Number of poles: 6,	IEC: 400 V / 20.8 A / 0.2 - 2.5 mm <sup>2</sup>	Box
GTIN (EAN)	4032248818174	180°, PUSH IN, Spring connection, Clamping range, max. : 3.31 mm <sup>2</sup> , UL: 300 V / 18.5 A / AWG 12 - AWG		
Qty.	40 pc(s).	Box	26	
Type	BLDF 5.08/06/180 SN BK ...	Version	Product data	Packaging
Order No.	<a href="#">1000900000</a>	PCB plug-in connector, female plug, 5.08 mm, Number of poles: 6,	IEC: 400 V / 20.8 A / 0.2 - 2.5 mm <sup>2</sup>	Box
GTIN (EAN)	4032248817412	180°, PUSH IN, Spring connection, Clamping range, max. : 3.31 mm <sup>2</sup> , UL: 300 V / 18.5 A / AWG 12 - AWG		
Qty.	40 pc(s).	Box	26	

#### 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 5.08/06/180R BK BX	Version	Product data	Packaging
Order No.	<a href="#">1712000000</a>	PCB plug-in connector, female plug, 5.08 mm, Number of poles: 6,	IEC: 400 V / 21 A	Box
GTIN (EAN)	4008190935016	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 5.08/06/180R OR BX	Version	Product data	Packaging
Order No.	<a href="#">1610530000</a>	PCB plug-in connector, female plug, 5.08 mm, Number of poles: 6,	IEC: 400 V / 21 A	Box
GTIN (EAN)	4008190123819	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).			

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### Mating connector (fully pluggable)

#### BLL 5.08/180



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

#### General ordering data

Type	BLL 5.08/06/180 3.2 SN ...	Version	Product data	Packaging
Order No.	<a href="#">1630750000</a>	PCB plug-in connector, female header, closed side, THT solder	IEC: 400 V / 23 A	Box
GTIN (EAN)	4008190204174	connection, 5.08 mm, Number of poles: 6, 180°, Solder pin length (l):	UL: 300 V / 15 A	
Qty.	60 pc(s).	3.2 mm, tinned, orange, Box		

#### 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/06/270 SN OR ...	Version	Product data	Packaging
Order No.	<a href="#">1982740000</a>	PCB plug-in connector, female plug, 5.08 mm, Number of poles: 6,	IEC: 400 V / 24 A / 0.2 - 2.5 mm <sup>2</sup>	Box
GTIN (EAN)	4032248686834	270°, PUSH IN, Spring connection, Clamping range, max. : 3.31 mm <sup>2</sup> , UL: 300 V / 18.5 A / AWG 26 - AWG		
Qty.	60 pc(s).	Box	12	
Type	BLF 5.08HC/06/270 SN BK ...	Version	Product data	Packaging
Order No.	<a href="#">1981970000</a>	PCB plug-in connector, female plug, 5.08 mm, Number of poles: 6,	IEC: 400 V / 24 A / 0.2 - 2.5 mm <sup>2</sup>	Box
GTIN (EAN)	4032248684663	270°, PUSH IN, Spring connection, Clamping range, max. : 3.31 mm <sup>2</sup> , UL: 300 V / 18.5 A / AWG 26 - AWG		
Qty.	60 pc(s).	Box	12	

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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 5.08/06/180B 3.2SN ...	Version	Product data	Packaging
Order No.	<a href="#">1682770000</a>	PCB plug-in connector, female header, Dovetails for fixing blocks, THT	IEC: 400 V / 23 A	Box
GTIN (EAN)	4008190474539	solder connection, 5.08 mm, Number of poles: 6, 180°, Solder pin	UL: 300 V / 15 A	
Qty.	54 pc(s).	length (l): 3.2 mm, tinned, orange, Box		

#### 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/06/225B SN ...	Version	Product data	Packaging
Order No.	<a href="#">1945790000</a>	PCB plug-in connector, female plug, 5.08 mm, Number of poles: 6,	IEC: 400 V / 17.5 A / 0.2 - 4 mm <sup>2</sup>	Box
GTIN (EAN)	4032248621262	225°, Clamping yoke connection, Clamping range, max.: 4 mm <sup>2</sup> , Box	UL: 300 V / 15 A / AWG 26 - AWG 12	
Qty.	54 pc(s).			
Type	BLZP 5.08HC/06/225B SN ...	Version	Product data	Packaging
Order No.	<a href="#">1946020000</a>	PCB plug-in connector, female plug, 5.08 mm, Number of poles: 6,	IEC: 400 V / 17.5 A / 0.2 - 4 mm <sup>2</sup>	Box
GTIN (EAN)	4032248621552	225°, Clamping yoke connection, Clamping range, max.: 4 mm <sup>2</sup> , Box	UL: 300 V / 15 A / AWG 26 - AWG 12	
Qty.	54 pc(s).			



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### Mating connector (fully pluggable)

#### 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/06/90 SN BK ...	Version	Product data	Packaging
Order No.	<a href="#">1948280000</a>	PCB plug-in connector, female plug, 5.08 mm, Number of poles: 6,	IEC: 400 V / 23 A / 0.2 - 4 mm <sup>2</sup>	Box
GTIN (EAN)	4032248624805	90°, Clamping yoke connection, Clamping range, max. : 4 mm <sup>2</sup> , Box	UL: 300 V / 20 A / AWG 26 - AWG 12	
Qty.	60 pc(s).			
Type	BLZP 5.08HC/06/90 SN OR ...	Version	Product data	Packaging
Order No.	<a href="#">1948040000</a>	PCB plug-in connector, female plug, 5.08 mm, Number of poles: 6,	IEC: 400 V / 23 A / 0.2 - 4 mm <sup>2</sup>	Box
GTIN (EAN)	4032248624263	90°, Clamping yoke connection, Clamping range, max. : 4 mm <sup>2</sup> , Box	UL: 300 V / 20 A / AWG 26 - AWG 12	
Qty.	60 pc(s).			

#### 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 5.08/06/-B SN BK BX	Version	Product data	Packaging
Order No.	<a href="#">1673820000</a>	PCB plug-in connector, female plug, 5.08 mm, Number of poles: 6,	IEC: 400 V / 14 A / 0.2 - 2.5 mm <sup>2</sup>	Box
GTIN (EAN)	4008190435554	180°, Clamping yoke connection, Clamping range, max. : 3.31 mm <sup>2</sup> , Box	UL: 300 V / 10 A / AWG 26 - AWG 12	
Qty.	45 pc(s).			
Type	BLDT 5.08/06/-B SN OR BX	Version	Product data	Packaging
Order No.	<a href="#">1651780000</a>	PCB plug-in connector, female plug, 5.08 mm, Number of poles: 6,	IEC: 400 V / 14 A / 0.2 - 2.5 mm <sup>2</sup>	Box
GTIN (EAN)	4008190400460	180°, Clamping yoke connection, Clamping range, max. : 3.31 mm <sup>2</sup> , Box	UL: 300 V / 10 A / AWG 26 - AWG 12	
Qty.	45 pc(s).			

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### 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/06/90 SN OR ...	Version	Product data	Packaging
Order No.	<a href="#">1001570000</a>	PCB plug-in connector, female plug, 5.08 mm, Number of poles: 6,	IEC: 400 V / 24 A / 0.2 - 2.5 mm <sup>2</sup>	Box
GTIN (EAN)	4032248693375	90°, PUSH IN, Spring connection, Clamping range, max. : 3.31 mm <sup>2</sup> ,	UL: 300 V / 18.5 A / AWG 26 - AWG	
Qty.	60 pc(s).	Box	12	
Type	BLF 5.08HC/06/90 SN BK ...	Version	Product data	Packaging
Order No.	<a href="#">1000070001</a>	PCB plug-in connector, female plug, 5.08 mm, Number of poles: 6,	IEC: 400 V / 24 A / 0.2 - 2.5 mm <sup>2</sup>	Box
GTIN (EAN)	4032248690008	90°, PUSH IN, Spring connection, Clamping range, max. : 3.31 mm <sup>2</sup> ,	UL: 300 V / 18.5 A / AWG 26 - AWG	
Qty.	60 pc(s).	Box	12	

#### 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 5.08/06/- SN OR BX	Version	Product data	Packaging
Order No.	<a href="#">1644770000</a>	PCB plug-in connector, female plug, 5.08 mm, Number of poles: 6,	IEC: 400 V / 14 A / 0.2 - 2.5 mm <sup>2</sup>	Box
GTIN (EAN)	4008190283988	180°, Clamping yoke connection, Clamping range, max. : 3.31 mm <sup>2</sup> ,	UL: 300 V / 10 A / AWG 26 - AWG 12	
Qty.	50 pc(s).	Box		
Type	BLDT 5.08/06/- SN BK BX	Version	Product data	Packaging
Order No.	<a href="#">1660750000</a>	PCB plug-in connector, female plug, 5.08 mm, Number of poles: 6,	IEC: 400 V / 14 A / 0.2 - 2.5 mm <sup>2</sup>	Box
GTIN (EAN)	4008190417208	180°, Clamping yoke connection, Clamping range, max. : 3.31 mm <sup>2</sup> ,	UL: 300 V / 10 A / AWG 26 - AWG 12	
Qty.	50 pc(s).	Box		

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### Mating connector (fully pluggable)

#### BLZP 5.08HC/225 SN

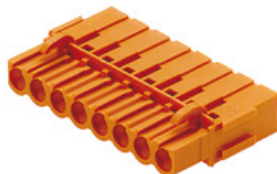


Clamping-yoke connection with right-angled (90° or 270°) or angled (225°) outlet direction. The female connectors provide space for labelling and can be coded. Fastened by means of a flange or release latch. They also provide an integrated plus/minus screw, protection against faulty insertion of the wire, and they are delivered with open clamping yokes. HC = High Current.

#### General ordering data

Type	BLZP 5.08HC/06/225 SN O ...	Version	Product data	Packaging
Order No.	<a href="#">1946290000</a>	PCB plug-in connector, female plug, 5.08 mm, Number of poles: 6,	IEC: 400 V / 17.5 A / 0.2 - 4 mm <sup>2</sup>	Box
GTIN (EAN)	4032248621866	225°, Clamping yoke connection, Clamping range, max. : 4 mm <sup>2</sup> , Box	UL: 300 V / 15 A / AWG 26 - AWG 12	
Qty.	60 pc(s).			
Type	BLZP 5.08HC/06/225 SN B ...	Version	Product data	Packaging
Order No.	<a href="#">1946600000</a>	PCB plug-in connector, female plug, 5.08 mm, Number of poles: 6,	IEC: 400 V / 17.5 A / 0.2 - 4 mm <sup>2</sup>	Box
GTIN (EAN)	4032248622375	225°, Clamping yoke connection, Clamping range, max. : 4 mm <sup>2</sup> , Box	UL: 300 V / 15 A / AWG 26 - AWG 12	
Qty.	60 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 5.08/06/180BR OR BX	Version	Product data	Packaging
Order No.	<a href="#">1649410000</a>	PCB plug-in connector, female plug, 5.08 mm, Number of poles: 6,	IEC: 400 V / 21 A	Box
GTIN (EAN)	4008190294526	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 5.08/06/180BR BK BX	Version	Product data	Packaging
Order No.	<a href="#">1712150000</a>	PCB plug-in connector, female plug, 5.08 mm, Number of poles: 6,	IEC: 400 V / 21 A	Box
GTIN (EAN)	4008190935160	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).			

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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/06/180 SN BK ...	Version	Product data	Packaging
Order No.	<a href="#">1013470000</a>	PCB plug-in connector, female plug, 5.08 mm, Number of poles: 6,	IEC: 400 V / 24 A / 0.2 - 2.5 mm <sup>2</sup>	Box
GTIN (EAN)	4032248721627	180°, PUSH IN, Tension-clamp connection, Clamping range, max. :	UL: 300 V / 18.5 A / AWG 26 - AWG	
Qty.	60 pc(s).	3.31 mm <sup>2</sup> , Box	12	
Type	BLF 5.08HC/06/180 SN OR ...	Version	Product data	Packaging
Order No.	<a href="#">1013730000</a>	PCB plug-in connector, female plug, 5.08 mm, Number of poles: 6,	IEC: 400 V / 24 A / 0.2 - 2.5 mm <sup>2</sup>	Box
GTIN (EAN)	4032248721849	180°, PUSH IN, Spring connection, Clamping range, max. : 3.31 mm <sup>2</sup> ,	UL: 300 V / 18.5 A / AWG 26 - AWG	
Qty.	60 pc(s).	Box	12	

#### 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/06/180 SN O ...	Version	Product data	Packaging
Order No.	<a href="#">1943620000</a>	PCB plug-in connector, female plug, 5.08 mm, Number of poles: 6,	IEC: 400 V / 23 A / 0.2 - 4 mm <sup>2</sup>	Box
GTIN (EAN)	4032248617616	180°, Clamping yoke connection, Clamping range, max. : 4 mm <sup>2</sup> , Box	UL: 300 V / 20 A / AWG 26 - AWG 12	
Qty.	60 pc(s).			
Type	BLZP 5.08HC/06/180 SN B ...	Version	Product data	Packaging
Order No.	<a href="#">1943850000</a>	PCB plug-in connector, female plug, 5.08 mm, Number of poles: 6,	IEC: 400 V / 23 A / 0.2 - 4 mm <sup>2</sup>	Box
GTIN (EAN)	4032248617999	180°, Clamping yoke connection, Clamping range, max. : 4 mm <sup>2</sup> , Box	UL: 300 V / 20 A / AWG 26 - AWG 12	
Qty.	60 pc(s).			

## OMNIMATE Signal - series BL/SL 5.08 SLD 5.08V/12/180 3.2SN OR BX

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Germany  
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www.weidmueller.com

### 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	BL 5.08/06/90 3.2 SN O ...	Version	Product data	Packaging
Order No.	<a href="#">1622980000</a>	PCB plug-in connector, female header, closed side, THT solder	IEC: 400 V / 23 A	Box
GTIN (EAN)	4008190279301	connection, 5.08 mm, Number of poles: 6, 90°, Solder pin length (l):	UL: 300 V / 15 A	
Qty.	60 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/06/270 SN B ...	Version	Product data	Packaging
Order No.	<a href="#">1949060000</a>	PCB plug-in connector, female plug, 5.08 mm, Number of poles: 6,	IEC: 400 V / 23 A / 0.2 - 4 mm²	Box
GTIN (EAN)	4032248626519	270°, Clamping yoke connection, Clamping range, max. : 4 mm², Box	UL: 300 V / 20 A / AWG 26 - AWG 12	
Qty.	60 pc(s).			
Type	BLZP 5.08HC/06/270 SN O ...	Version	Product data	Packaging
Order No.	<a href="#">1948830000</a>	PCB plug-in connector, female plug, 5.08 mm, Number of poles: 6,	IEC: 400 V / 23 A / 0.2 - 4 mm²	Box
GTIN (EAN)	4032248626281	270°, Clamping yoke connection, Clamping range, max. : 4 mm², Box	UL: 300 V / 20 A / AWG 26 - AWG 12	
Qty.	60 pc(s).			

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## Accessories

### Blocks for PCB mounting



#### Minor component, major effect:

Clip-on attachment elements increase the mechanical resilience of the whole plug connection by

- securing the male connectors to the circuit board
- providing a vibration-proof connection between the sockets and the male connectors

Clip-on or pre-assembled - always the right solution:

- Hard-wearing, precise fitting dovetail joint
- Hard-wearing metal threaded inserts
- Suitable for all outlet directions

Maximum stability, minimum effort:

- Extremely resilient for frequent fastening operations
- Complete set for easy selection

The result: soldering points, contacts and overall module are more resilient against mechanical stress such as vibrations and tensile loads.

### General ordering data

Type	SLA BB 14 OR	Version	Product data	Packaging
Order No.	<a href="#">1594200000</a>	PCB plug-in connector, Accessories, Mounting block, orange, Number of poles: 1		
GTIN (EAN)	4008190184988			
Qty.	20 pc(s).			
Type	SLA BB 14 SW	Version	Product data	
Order No.	<a href="#">1774460000</a>	PCB plug-in connector, Accessories, Mounting block, black, Number of poles: 1		
GTIN (EAN)	4032248148813			
Qty.	20 pc(s).			

### 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	Product data	Packaging
Order No.	<a href="#">1573010000</a>	PCB plug-in connector, Accessories, Coding element, orange, Number of poles: 1		
GTIN (EAN)	4008190048396			
Qty.	100 pc(s).			

## OMNIMATE Signal - series BL/SL 5.08 SLD 5.08V/12/180 3.2SN OR BX

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### Accessories

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

### Additional accessories



#### No task is too small when creating the perfect solution. br />

Connections form just one part of the overall process. Small details are often the key to the perfect solution in applications where potentials are tested, grouped or even isolated.

A system is not a system without small but useful details:

- Test plugs - ensure reliable pick-up from diagnostic sockets
- Cross-connectors - ensure a stable electrical distribution contact directly at the connection
- Compartment partition elements - divide a large number of male connectors into several separate socket connector channels
- Locks and clips - optional vibration-resistant clip-on connection or mounting for male and female connectors

In tandem with the manufacturing process and application - more accessories = smaller workload

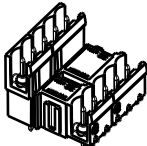
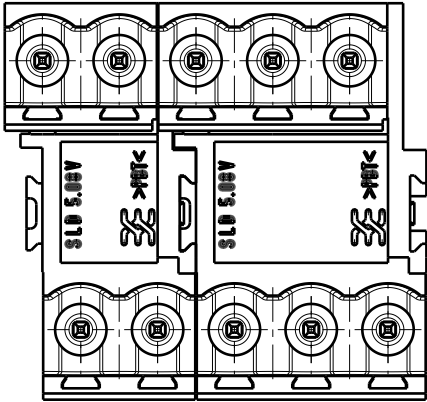
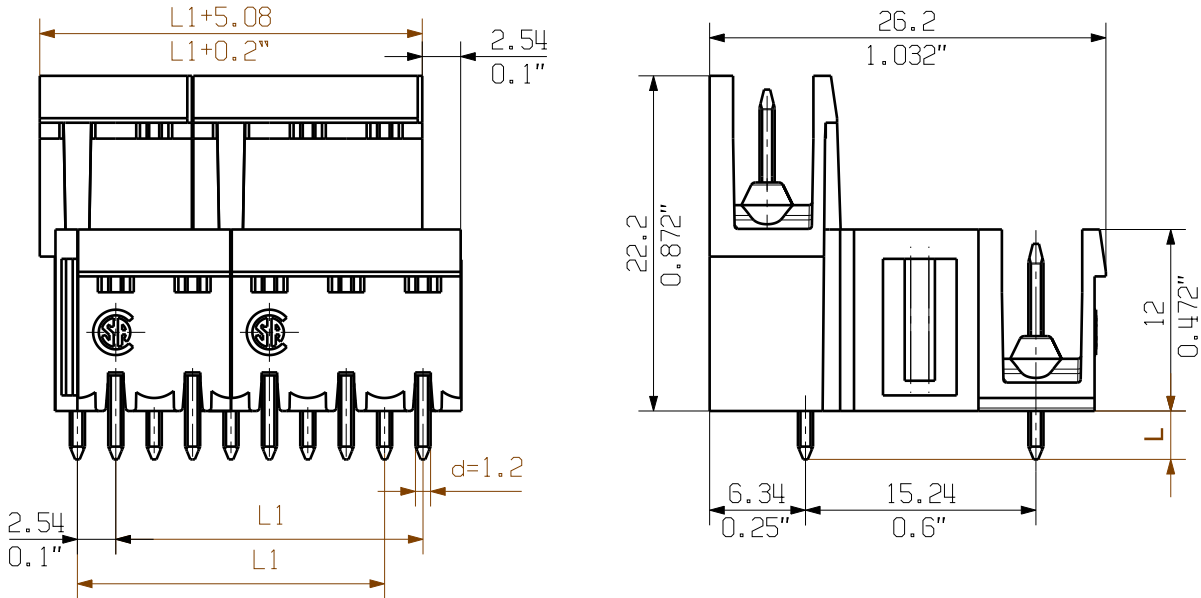
### General ordering data

Type	SL AT SW	Version	Product data	Packaging
Order No.	<a href="#">1770240000</a>	PCB plug-in connector, Accessories, Spacer, black, Number of poles: 1		Box
GTIN (EAN)	4032248117710			
Qty.	100 pc(s).			
Type	SL AT OR	Version	Product data	Packaging
Order No.	<a href="#">1598300000</a>	PCB plug-in connector, Accessories, Spacer, orange, Number of poles:		Box
GTIN (EAN)	4008190189266	1		
Qty.	100 pc(s).			

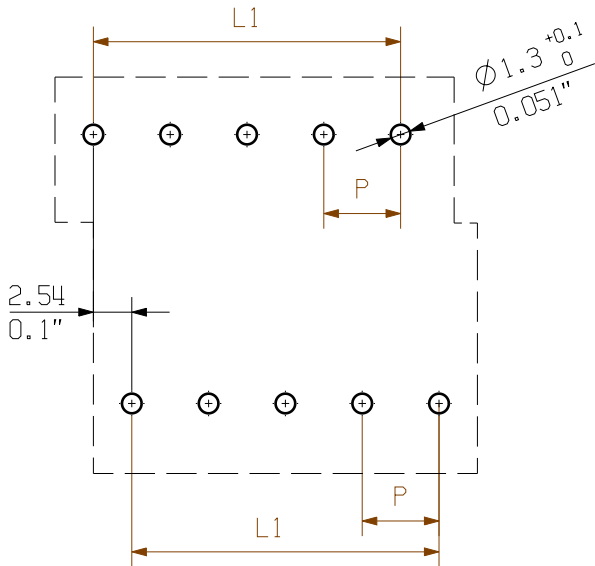


Dimensions without tolerances are no check dimensions

The English version is binding



1/1



P = pitch  
n = no of poles  
shown:SLD 5.08V/10/180

3,2	0,1
	-0,3
4,5	0,1
	-0,3
Stiftlänge L pin length L	Toleranz Tolerance

48	116,84	4,600	+0.40 - 0.24
46	111,76	4,400	
44	106,68	4,200	+0.35 - 0.21
42	101,60	4,000	
40	96,52	3,800	+0.30 - 0.18
38	91,44	3,600	
36	86,36	3,400	+0.25 - 0.15
34	81,28	3,200	
32	76,20	3,000	+0.20 - 0.12
30	71,12	2,800	
28	66,04	2,600	+0.15 - 0.09
26	60,96	2,400	
24	55,88	2,200	+0.10 - 0.06
22	50,80	2,000	
20	45,72	1,800	+ 0.05 - 0.03
18	40,64	1,600	
16	35,56	1,400	+0.10 - 0.06
14	30,48	1,200	
12	25,40	1,000	+0.10 - 0.06
10	20,32	0,800	
8	15,24	0,600	+ 0.05 - 0.03
6	10,16	0,400	
4	5,08	0,200	
n	L1 [mm]	L1 [Inch]	Toleranz/ tolerance L1 [mm]

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.

Weidmueller 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.

General tolerance:  
DIN ISO 2768-mK



Scale: 2/1

Supersedes: .

88610/5  
24.08.16 HELIS\_MA  
00  
Modification

Drawn	18.07.2003	KNOTH_G
Responsible		HERTEL_S
Checked	01.09.2016	HELIS_MA
Approved		LANG_T

**Weidmüller**



Cat.no.: .

**3 26661 08**

Drawing no. Issue no.  
Sheet 01 of 02 sheets

**SLD 5.08V/.../180(B)**  
STIFTLEISTE  
PIN HEADER

Product file: SLD 5.08V

7305



## 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.