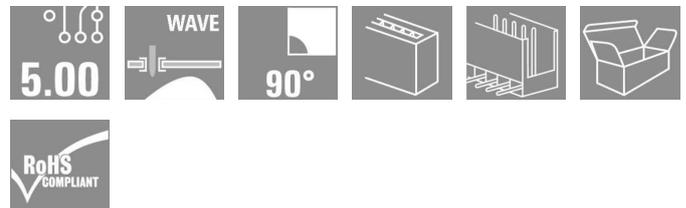


**OMNIMATE Signal - series BL/SL 5.00**  
**SL 5.00/04/90 3.2SN OR BX**

**Weidmüller Interface GmbH & Co. KG**  
 Klingenbergstraße 16  
 D-32758 Detmold  
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 www.weidmueller.com



Male connectors with 90° outlet direction. The solder pin length is optimised for wave flow soldering. The pin headers provide space for labelling and can be coded.

**General ordering data**

Type	SL 5.00/04/90 3.2SN OR BX
Order No.	<a href="#">1571150000</a>
Version	PCB plug-in connector, male header, open side, THT solder connection, 5.00 mm, No. of poles: 4, 90°, Solder pin length (l): 3.2 mm, tinned, Orange, Box
GTIN (EAN)	4008190107314
Qty.	100 pc(s).
Product data	IEC: 400 V / 18 A UL: 300 V / 15 A
Packaging	Box

**OMNIMATE Signal - series BL/SL 5.00**  
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**Technical data****Dimensions and weights**

Net weight 1.26 g

**System specifications**

Product family		Mounting onto the PCB	
OMNIMATE Signal - series BL/SL 5.00		THT solder connection	
Pitch in mm (P)	5 mm	Pitch in inches (P)	0.197 inch
Outgoing elbow	90°	No. 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	Tolerance of solder pin position	+0.1 / -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	15 mm	L1 in inches	0.591 inch
Number of rows	1	Pin series quantity	1
Touch-safe protection acc. to DIN VDE 57 106	Safe from finger touch, plugged	Touch-safe protection acc. to DIN VDE 0470	IP20 plugged
Volume resistance	4.50 mΩ	Can be coded	Yes
Plugging cycles	25	Withdrawal force per pole	2 N
Packaging	Box		

**Material data**

Insulating material	PBT	Colour	Orange
Colour chart (similar)	RAL 2000	Insulating material group	IIIa
CTI	≥ 200	Insulation resistance	≥ 10 <sup>8</sup> Ω
UL 94 flammability rating	V-0	Contact material	CuSn
Contact surface	tinned	Layer structure of solder connection	2-3 μm Ni / 2-4 μm Sn matt
Storage temperature, min.	-25 °C	Storage temperature, max.	55 °C
Max. relative humidity during storage	80 %	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. no. of poles (Ta = 20°C)	18 A
Rated current, max. no. of poles (Ta = 20°C)	14.5 A	Rated current, min. no. of poles (Ta = 40°C)	15 A
Rated current, max. no. of poles (Ta = 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	Short-time withstand current resistance	3 x 1s with 120 A

**Data sheet**

**OMNIMATE Signal - series BL/SL 5.00  
SL 5.00/04/90 3.2SN OR BX**

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**Technical data**

**Rated data acc. to CSA**

Institute (CSA)		Certificate No. (CSA)	
			200039-1121690
Rated voltage (Use group B)	300 V	Rated voltage (use group D)	300 V
Rated current (use group B)	15 A	Rated current (use group D)	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)	300 V	Rated voltage (use group D)	300 V
Rated current (use group B)	15 A	Rated current (use group D)	10 A
Reference to approval values	Specifications are maximum values, details - see approval certificate.		

**Classifications**

ETIM 3.0	EC001284	ETIM 4.0	EC002637
ETIM 5.0	EC002637	ETIM 6.0	EC002637
UNSPSC	30-21-18-10	eClass 5.1	27-26-07-04
eClass 6.2	27-26-07-04	eClass 7.1	27-44-04-02
eClass 8.1	27-44-04-02	eClass 9.0	27-44-04-02

**Notes**

Notes	<ul style="list-style-type: none"> <li>• Additional colours on request</li> <li>• Gold-plated contact surfaces on request</li> <li>• Rated current related to rated cross-section &amp; min. No. of poles.</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	The products are developed, manufactured and delivered according to the internationally recognised IPC-A-610 standard, category "permissible". More extensive demands on the products can be evaluated on request.

**Approvals**

Approvals	
ROHS	Conform

**Data sheet****OMNIMATE Signal - series BL/SL 5.00  
SL 5.00/04/90 3.2SN OR BX**

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**Technical data****Downloads**

EDA Layout Library (Mentor Graphics  
Expedition, Mentor Graphics Pads,  
Altium Designer)

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Safety notice

[Safety indication](#)

CAD Library (P-CAD Format - ASCII)

[SL.zip](#)

CAD Library (P-CAD Format - Standard)

[SL.zip](#)

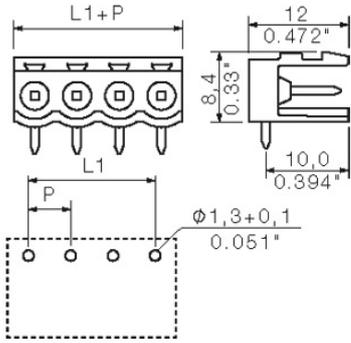
[3-D model](#)

**Data sheet**

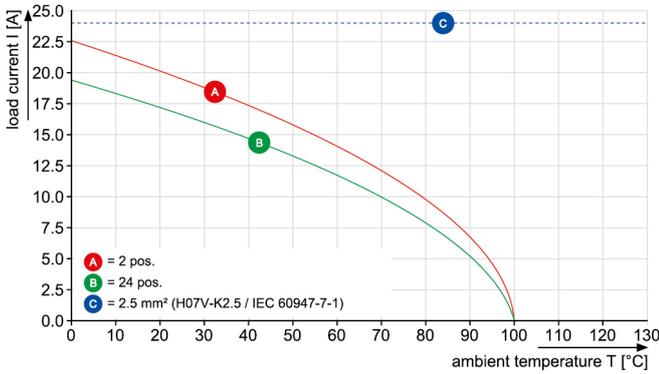
**OMNIMATE Signal - series BL/SL 5.00  
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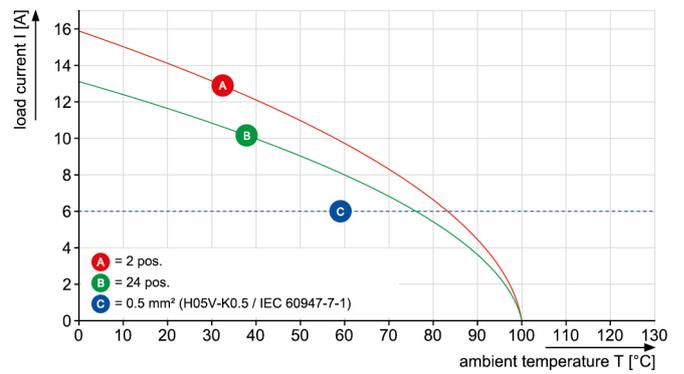
**Drawings**



BLF 5.00HC/./180 - SL 5.00/./90



BLF 5.00HC/./180 - SL 5.00/./90



**OMNIMATE Signal - series BL/SL 5.00  
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**Mating connector (fully pluggable)**

**BLZP 5.00HC/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	Order No.	Version	GTIN (EAN)	Qty.	Product data	Packaging
BLZP 5.00HC/04/270 SN OR BX	<a href="#">1958850000</a>	PCB plug-in connector, female plug, 5.00 mm, No. of poles: 4, 90°, Clamping yoke connection, Clamping range, rated connection, max.: 4 mm <sup>2</sup> , Box	4032248637683 90 pc(s).		IEC: 400 V / 23 A / 0.2 - 4 mm <sup>2</sup> UL: 300 V / 20 A / AWG 30 - AWG 12	Box
2016-04-08T08:00:00Z	<a href="#">1959080000</a>		4032248638017 90 pc(s).			IEC: 400 V / 23 A / 0.2 - 4 mm <sup>2</sup> UL: 300 V / 20 A / AWG 30 - AWG 12

**OMNIMATE Signal - series BL/SL 5.00  
SL 5.00/04/90 3.2SN OR BX**

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Fax: +49 5231 14-292083  
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**Mating connector (fully pluggable)**
**BLZP 5.00HC/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	Order No.	Version	GTIN (EAN)	Qty.	Product data	Packaging
BLZP 5.00HC/04/180 SN BK BX	<a href="#">1955550000</a>	PCB plug-in connector, female plug, 5.00 mm, No. of poles: 4, 180°, Clamping yoke connection, Clamping range, rated connection, max.: 4 mm <sup>2</sup> , Box	4032248634040 90 pc(s).		IEC: 400 V / 23 A / 0.2 - 4 mm <sup>2</sup> UL: 300 V / 20 A / AWG 30 - AWG 12	Box
BLZP 5.00HC/04/180 SN OR BX	<a href="#">1954470000</a>	PCB plug-in connector, female plug, 5.00 mm, No. of poles: 4, 180°, Clamping yoke connection, Clamping range, rated connection, max.: 4 mm <sup>2</sup> , Box	4032248633180 90 pc(s).		IEC: 400 V / 23 A / 0.2 - 4 mm <sup>2</sup> UL: 300 V / 20 A / AWG 30 - AWG 12	Box

**BLF 5.00HC/90 SN**


Just as reliable as the millionfold proven original and featuring innovative details:  
The BLF 5.00HC PUSH IN version of the BLZ 5.00HC female connector features a new connection system and 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 5.00HC offers just as much as the older versions:

- 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

**General ordering data**

Type	Order No.	Version	GTIN (EAN)	Qty.	Product data	Packaging
BLF 5.00HC/04/90 SN BK BX	<a href="#">1979290000</a>	PCB plug-in connector, female plug, 5.00 mm, No. of poles: 4, 90°, PUSH IN, Clamping range, rated connection, max.: 3.31 mm <sup>2</sup> , Box	4032248674473 90 pc(s).		IEC: 400 V / 24 A / 0.2 - 2.5 mm <sup>2</sup> UL: 300 V / 18.5 A / AWG 26 - AWG 12	Box

**OMNIMATE Signal - series BL/SL 5.00  
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**Mating connector (fully pluggable)**

BLF 5.00HC/04/90 SN OR BX	<a href="#">1980190000</a>	PCB plug-in connector, female plug, 5.00 mm, No. of poles: 4, 90°, PUSH IN, Clamping range, rated connection, max.: 3.31 mm <sup>2</sup> , Box	4032248675272 90 pc(s).	IEC: 400 V / 24 A / 0.2 - 2.5 mm <sup>2</sup> UL: 300 V / 18.5 A / AWG 26 - AWG 12	Box
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**BLZP 5.00HC/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	Order No.	Version	GTIN (EAN)	Qty.	Product data	Packaging
BLZP 5.00HC/04/90 SN BK BX	<a href="#">1958630000</a>	PCB plug-in connector, female plug, 5.00 mm, No. of poles: 4, 90°, Clamping yoke connection, Clamping range, rated connection, max.: 4 mm <sup>2</sup> , Box	4032248637362 90 pc(s).		IEC: 400 V / 23 A / 0.2 - 4 mm <sup>2</sup> UL: 300 V / 20 A / AWG 30 - AWG 12	Box
BLZP 5.00HC/04/90 SN OR BX	<a href="#">1958280000</a>	PCB plug-in connector, female plug, 5.00 mm, No. of poles: 4, 90°, Clamping yoke connection, Clamping range, rated connection, max.: 4 mm <sup>2</sup> , Box	4032248637140 90 pc(s).		IEC: 400 V / 23 A / 0.2 - 4 mm <sup>2</sup> UL: 300 V / 20 A / AWG 30 - AWG 12	Box

**OMNIMATE Signal - series BL/SL 5.00  
SL 5.00/04/90 3.2SN OR BX**

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**Mating connector (fully pluggable)**
**BLF 5.00HC/180 SN**


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

The BLF 5.00HC PUSH IN version of the BLZ 5.00HC female connector features a new connection system and 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 5.00HC offers just as much as the older versions:

- 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

**General ordering data**

Type	Order No.	Version	GTIN (EAN)	Qty.	Product data	Packaging
BLF 5.00HC/04/180 SN OR BX	<a href="#">1017880000</a>	PCB plug-in connector, female plug, 5.00 mm, No. of poles: 4, 180°, PUSH IN, Clamping range, rated connection, max.: 3.31 mm <sup>2</sup> , Box	403224872865790	pc(s).	IEC: 400 V / 23 A / 0.2 - 2.5 mm <sup>2</sup> UL: 300 V / 18.5 A / AWG 26 - AWG 12	Box
BLF 5.00HC/04/180 SN BK BX	<a href="#">1017690000</a>	PCB plug-in connector, female plug, 5.00 mm, No. of poles: 4, 180°, PUSH IN, Clamping range, rated connection, max.: 3.31 mm <sup>2</sup> , Box	403224872882490	pc(s).	IEC: 400 V / 23 A / 0.2 - 2.5 mm <sup>2</sup> UL: 300 V / 18.5 A / AWG 26 - AWG 12	Box

# Addresses worldwide

Let's connect.

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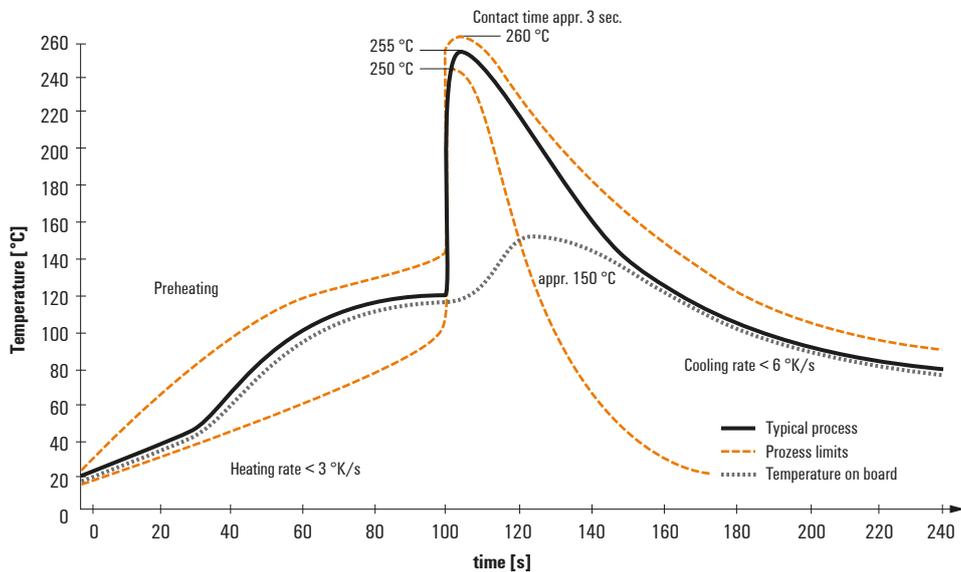
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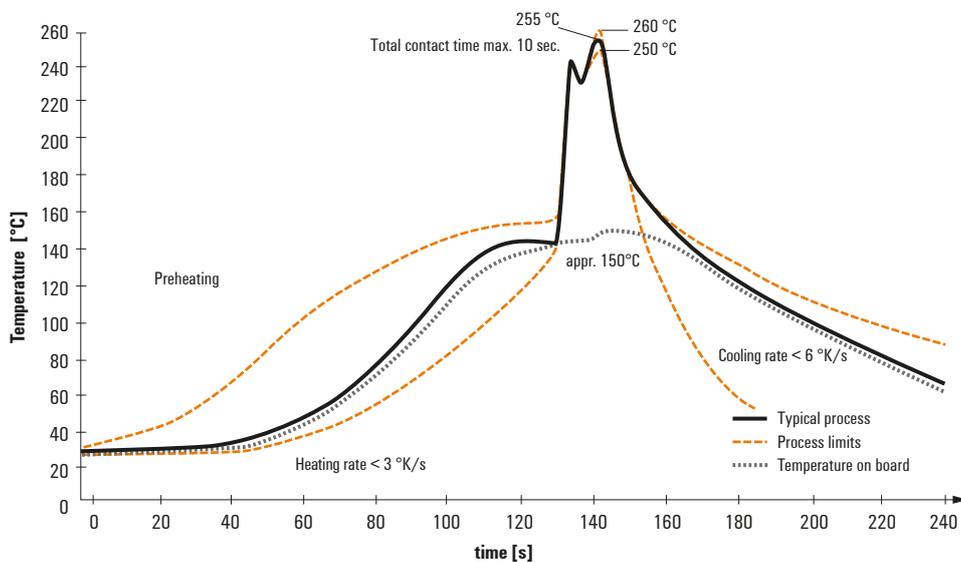
## Recommended wave soldering profiles

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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.