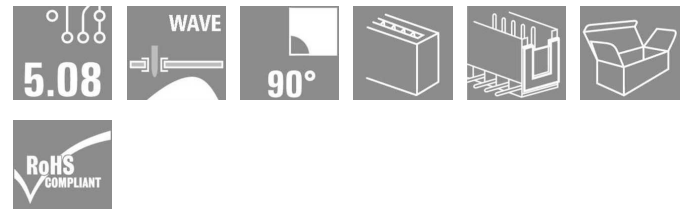
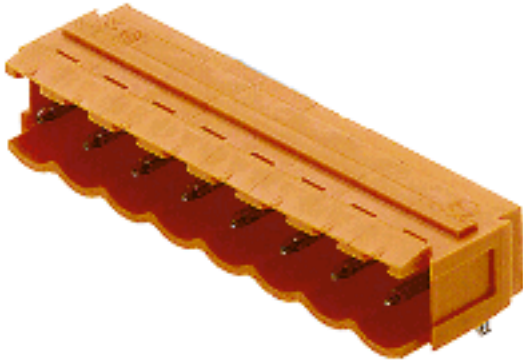


**OMNIMATE Signal - series BL/SL 5.08  
SL 5.08/15/90B 3.2SN OR BX**

**Weidmüller Interface GmbH & Co. KG**  
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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**

Delivery status	<b>This article will no longer be available in the future.</b>
Available until	2017-12-31
Type	SL 5.08/15/90B 3.2SN OR BX
Order No.	<a href="#">1511660000</a>
Version	PCB plug-in connector, male header, Dovetails for fixing blocks, Solder connection, 5.08 mm, No. of poles: 15, Solder pin length (l): 3.2 mm, tinned, Orange, Box
GTIN (EAN)	4008190003463
Qty.	50 pc(s).
Product data	IEC: 400 V / 18 A UL: 300 V / 15 A
Packaging	Box
Alternative product	<a href="#">1154910000</a>

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**Technical data****Dimensions and weights**

Net weight 4.81 g

**System parameters**

Product family		Mounting onto the PCB	
OMNIMATE Signal - series BL/SL 5.08		Solder connection	
Pitch in mm (P)	5.08 mm	Pitch in inches (P)	0.2 inch
No. of poles	15	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	Plugging cycles	25
Can be coded	Yes	Number of solder pins per pole	1
Solder eyelet hole diameter (D)	1.3 mm	Solder eyelet hole diameter tolerance (D)	+ 0,1 mm
L1 in mm	71.12 mm	L1 in inches	2.8 inch
Insulation resistance	≥ 10 <sup>8</sup> Ω	Touch-safe protection acc. to DIN VDE 0470	IP20 plugged
Touch-safe protection acc. to DIN VDE 57 106	Safe from finger touch, plugged	Volume resistance	4.50 mΩ


**Material data**

Insulating material	PBT	Moisture Level (MSL)	3
Colour	Orange	Insulating material group	IIIa
UL 94 flammability rating	V-0	CTI	≥ 200
Contact material	CuSn	Layer structure of solder connection	2-3 μm Ni / 2-4 μm Sn matt
Contact surface	tinned	Operating temperature, min.	-50 °C
Operating temperature, max.	100 °C	Temperature range, installation, min.	-25 °C
Temperature range, installation, max.	100 °C	Storage temperature, min.	-25 °C
Storage temperature, max.	55 °C	Max. relative humidity during storage	80 %

**Rating data acc. to 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 III/3	250 V	Rated impulse voltage for surge voltage class/ contamination degree III/3	4 kV
Rated voltage for surge voltage class / pollution degree III/2	320 V	Rated impulse voltage for surge voltage class/ pollution degree III/2	4 kV
Rated voltage for surge voltage class / pollution degree II/2	400 V	Rated impulse voltage for surge voltage class/ pollution degree II/2	4 kV
Short-time withstand current resistance	3 x 1s with 120 A		

**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.		


**Data sheet**

**OMNIMATE Signal - series BL/SL 5.08  
SL 5.08/15/90B 3.2SN OR BX**

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**Technical data**

**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

**Downloads**

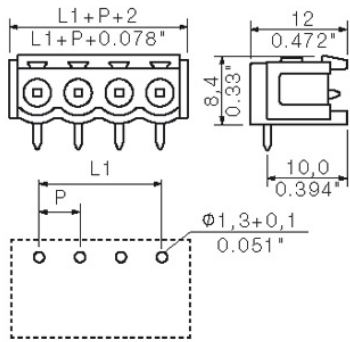
CAD Library (P-CAD Format - ASCII)	<a href="#">SL.zip</a>
CAD Library (P-CAD Format - Standard)	<a href="#">SL.zip</a>
<a href="#">3-D model</a>	

**Data sheet**

**OMNIMATE Signal - series BL/SL 5.08  
SL 5.08/15/90B 3.2SN OR BX**

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**Drawings**



**OMNIMATE Signal - series BL/SL 5.08  
SL 5.08/15/90B 3.2SN OR BX**

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**Mating connector (conditionally pluggable)**
**BLL 5.08/180**


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

**General ordering data**

Type	Order No.	Version	GTIN (EAN)	Qty.	Product data	Packaging
BLL 5.08/15/180 3.2 SN OR BX	<a href="#">1648920000</a>	PCB plug-in connector, female header, closed side, Solder connection, 5.08 mm, No. of poles: 15, 180°, Solder pin length (l): 3.2 mm, tinned, Orange, Box	4008190293406	24 pc(s).	IEC: 400 V / 23 A UL: 300 V / 15 A	Box

**BLL 5.08/90FI**


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

**General ordering data**

Type	Order No.	Version	GTIN (EAN)	Qty.	Product data	Packaging
BLL 5.08/15/90FI 3.2SN OR BX	<a href="#">1843880000</a>	PCB plug-in connector, female header, Inverted flange, Solder connection, 5.08 mm, No. of poles: 15, 90°, Solder pin length (l): 3.2 mm, tinned, Orange, Box	403224835563	18 pc(s).	IEC: 400 V / 23 A UL: 300 V / 15 A	Box

**OMNIMATE Signal - series BL/SL 5.08  
SL 5.08/15/90B 3.2SN OR BX**

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**Mating connector (conditionally pluggable)**

**BLL 5.08/90**



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

**General ordering data**

Type	Order No.	Version	GTIN (EAN)	Qty.	Product data	Packaging
BLL	<a href="#">1648440000</a>	PCB plug-in connector,	4008190292911	24 pc(s).	IEC: 400 V / 23 A	Box
5.08/15/90		female header, closed side,			UL: 300 V / 15 A	
3.2 SN OR BX		Solder connection, 5.08 mm, No. of poles: 15, 90°, Solder pin length (l): 3.2 mm, tinned, Orange, Box				

**OMNIMATE Signal - series BL/SL 5.08  
SL 5.08/15/90B 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.

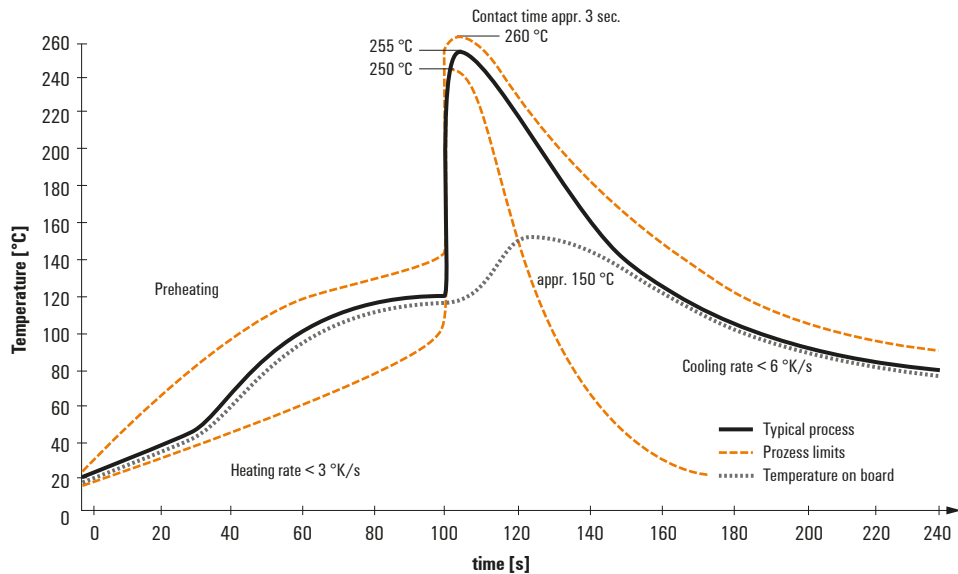
**General ordering data**

Type	Order No.	Version	GTIN (EAN)	Qty.	Product data	Packaging
BLL 5.08/15/180B 3.2SN OR BX	<a href="#">1682860000</a>	PCB plug-in connector, female header, Dovetails for fixing blocks, Solder connection, 5.08 mm, No. of poles: 15, 180°, Solder pin length (l): 3.2 mm, tinned, Orange, Box	4008190474621	24 pc(s).	IEC: 400 V / 23 A UL: 300 V / 15 A	Box

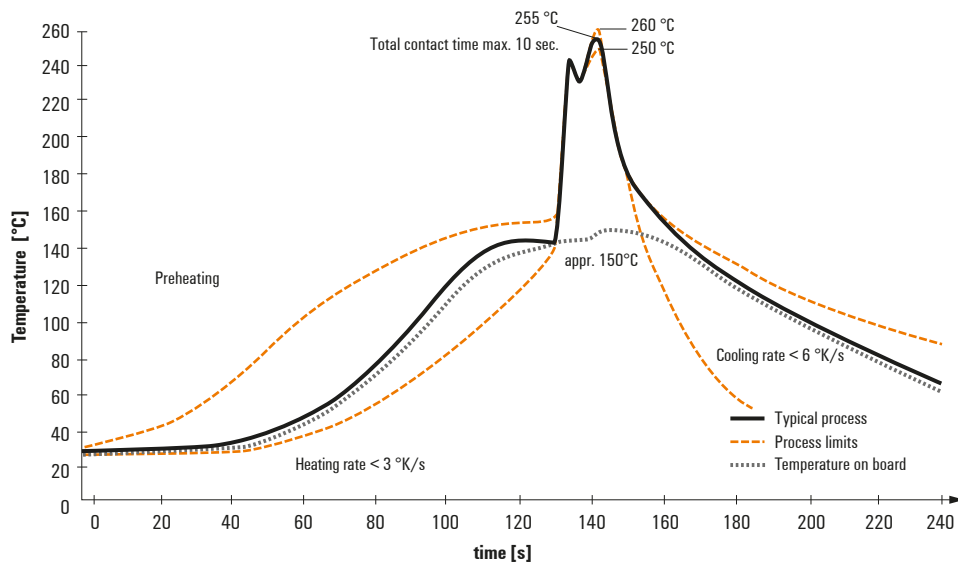
## Recommended wave soldering profiles

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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.




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Sales company 

Representation abroad 

without representation abroad 

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