

**OMNIMATE Signal - series BL/SL 5.08  
SL-SMT 5.08HC/05/270FL 3.2SN BK BX**

**Weidmüller Interface GmbH & Co. KG**  
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Germany  
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High-temperature-resistant, straight, open pin header.  
Packed in box or tape. On tape and with 1.5 mm solder pin, optimised for automatic assembly. 3.2 mm solder pin suitable for reflow and wave soldering. The pin headers provide space for labelling and can be coded. HC = High Current.

**General ordering data**

Available until	2010-05-31
Type	SL-SMT 5.08HC/05/270FL 3.2SN BK BX
Order No.	<a href="#">1876880000</a>
Version	PCB plug-in connector, male header, Solder flange, THT/THR solder connection, 5.08 mm, No. of poles: 5, 270°, Solder pin length (l): 3.2 mm, tinned, Black, Box
GTIN (EAN)	4032248467464
Qty.	50 pc(s).
Product data	IEC: 400 V / 27.5 A UL: 300 V / 18.5 A
Packaging	Box

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

Net weight	3.262 g
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**System specifications**

Product family	OMNIMATE Signal - series BL/SL 5.08	Mounting onto the PCB	THT/THR solder connection
Pitch in mm (P)	5.08 mm	Pitch in inches (P)	0.2 inch
Outgoing elbow	270°	No. of poles	5
Number of solder pins per pole	1	Solder pin length (l)	3.2 mm
Solder pin length tolerance	0 / -0.3 mm	Tolerance of solder pin position	± 0.1 mm
Solder pin dimensions	d = 1.2 mm, Octagonal	Solder eyelet hole diameter (D)	1.4 mm
Solder eyelet hole diameter tolerance (D)	+ 0,1 mm	L1 in mm	20.32 mm
L1 in inches	0.8 inch	Number of rows	1
Pin series quantity	1	Can be coded	Yes
Plugging cycles	25	Packaging	Box


**Material data**

Insulating material	LCP GF	Colour	Black
Colour chart (similar)	RAL 9011	Insulating material group	Illa
CTI	≥ 175	Insulation resistance	≥ 10 <sup>8</sup> Ω
Moisture Level (MSL)	1	UL 94 flammability rating	V-0
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.	55 °C
Max. relative humidity during storage	80 %	Operating temperature, min.	-50 °C
Operating temperature, max.	100 °C	Temperature range, installation, min.	-30 °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)	27.5 A
Rated current, max. no. of poles (Ta = 20°C)	19 A	Rated current, min. no. of poles (Ta = 40°C)	24 A
Rated current, max. no. of poles (Ta = 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**

Institute (CSA)		Certificate No. (CSA)	200039-1176845
Rated voltage (Use group B)	300 V	Rated voltage (use group D)	300 V
Rated current (use group B)	18.5 A	Rated current (use group D)	18.5 A
Reference to approval values	Specifications are maximum values, details - see approval certificate.		

Creation date October 13, 2016 11:57:02 AM CEST

Catalogue status 07.10.2016 / We reserve the right to make technical changes.


## Data sheet

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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)	18.5 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>• 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

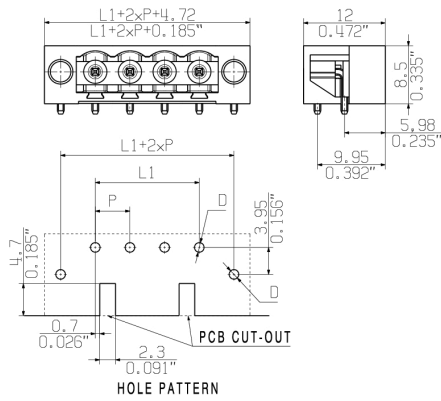
EDA Layout Library (Mentor Graphics Expedition, Mentor Graphics Pads, Altium Designer)	<a href="#">Select your download</a>
SMT white paper	<a href="#">Download Whitepaper</a>
Safety notice	<a href="#">Safety indication</a>

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**Drawings**



## OMNIMATE Signal - series BL/SL 5.08 SL-SMT 5.08HC/05/270FL 3.2SN BK BX

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### Mating connector (fully pluggable)

#### BLF 5.08HC/90F 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	Order No.	Version	GTIN (EAN)	Qty.	Product data	Packaging
BLF 5.08HC/05/90F SN OR BX	<a href="#">1002120000</a>	PCB plug-in connector, female plug, 5.08 mm, No. of poles: 5, 90°, PUSH IN, Clamping range, rated connection, max.: 3.31 mm <sup>2</sup> , Box	4032248694075	48 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
Discontinued	2016-04-08T00:00:00+02:00	BLF 5.08HC/05/90F SN BK BX	<a href="#">1000250001</a>	PCB plug-in connector, female plug, 5.08 mm, No. of poles: 5, 90°, PUSH IN, Clamping range, rated connection, max.: 3.31 mm <sup>2</sup> , Box	4032248690213	48 pc(s).

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**Mating connector (fully pluggable)**
**BLZP 5.08HC/180LR 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 5.08HC/05/180LR SN OR BX	<a href="#">1944860000</a>	PCB plug-in connector, female plug, 5.08 mm, No. of poles: 5, 180°, Clamping yoke connection, Clamping range, rated connection, max.: 4 mm <sup>2</sup> , Box	4032248619467	48 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 5.08HC/05/180LR SN BK BX	<a href="#">1945090000</a>	PCB plug-in connector, female plug, 5.08 mm, No. of poles: 5, 180°, Clamping yoke connection, Clamping range, rated connection, max.: 4 mm <sup>2</sup> , Box	4032248620234	48 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 5.08HC/180F 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	Order No.	Version	GTIN (EAN)	Qty.	Product data	Packaging
BLF 5.08HC/05/180F SN BK BX	<a href="#">1012670000</a>	PCB plug-in connector, female plug, 5.08 mm, No. of poles: 5, 180°, PUSH IN, Clamping range, rated	4032248720323	48 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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**Mating connector (fully pluggable)**

		connection, max.: 3.31 mm <sup>2</sup> , Box		
BLF	<a href="#">1013120000</a>	PCB plug-in connector, female plug, 5.08 mm, No. of poles: 5, 180°, PUSH	4032248720873 48 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
5.08HC/05/180F		IN, Clamping range, rated connection, max.: 3.31 mm <sup>2</sup> , Box		
SN OR BX				

**BLZP 5.08HC/90F 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	<a href="#">1949830000</a>	PCB plug-in connector, female plug, 5.08 mm, No. of poles: 5, 90°, Clamping yoke connection, Clamping range, rated connection, max.: 4 mm <sup>2</sup> , Box	4032248627752 48 pc(s).		IEC: 400 V / 23 A / 0.2 - 4 mm <sup>2</sup> UL: 300 V / 20 A / AWG 30 - AWG 12	Box
5.08HC/05/90F						
SN OR BX						
BLZP	<a href="#">1950070000</a>	PCB plug-in connector, female plug, 5.08 mm, No. of poles: 5, 90°, Clamping yoke connection, Clamping range, rated connection, max.: 4 mm <sup>2</sup> , Box	4032248628001 48 pc(s).		IEC: 400 V / 23 A / 0.2 - 4 mm <sup>2</sup> UL: 300 V / 20 A / AWG 30 - AWG 12	Box
5.08HC/05/90F						
SN BK BX						

**BLZP 5.08HC/270LR 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	<a href="#">1947560000</a>	PCB plug-in connector, female plug, 5.08 mm, No. of poles: 5, 270°, Clamping	4032248623853 48 pc(s).		IEC: 400 V / 23 A / 0.2 - 4 mm <sup>2</sup> UL: 300 V / 20 A / AWG 30 - AWG 12	Box
5.08HC/05/270LR						
SN OR BX						

**Data sheet**

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**Mating connector (fully pluggable)**

		yoke connection, Clamping range, rated connection, max.: 4 mm <sup>2</sup> , Box		
BLZP	<a href="#">1947790000</a>	PCB plug-in connector, female plug, 5.08 mm, No. of poles: 5, 270°, Clamping yoke connection, Clamping range, rated connection, max.: 4 mm <sup>2</sup> , Box	4032248624188 48 pc(s).	IEC: 400 V / 23 A / 0.2 - 4 mm <sup>2</sup> UL: 300 V / 20 A / AWG 30 - AWG 12
5.08HC/05/270LR				
SN BK BX				

**BLF 5.08HC/180LR 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**

Available until	Type	Order No.	Version	GTIN (EAN)	Qty.	Product data
2016-04-08	BLF5.08HC/05/180LR SN BK BX	<a href="#">1014150000</a>	PCB plug-in connector, female plug, 5.08 mm, No. of poles: 5, 180°, PUSH IN, Clamping range, rated connection, max.: 3.31 mm <sup>2</sup> , Box	4032248723188 48 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

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**Mating connector (fully pluggable)**

BLF 5.08HC/05/180LR SN OR BX	<a href="#">1014410000</a>	PCB plug-in connector, female plug, 5.08 mm, No. of poles: 5, 180°, PUSH IN, Clamping range, rated connection, max.: 3.31 mm <sup>2</sup> , Box	4032248722952 48 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 5.08HC/180F 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 5.08HC/05/180F SN OR BX	<a href="#">1944120000</a>	PCB plug-in connector, female plug, 5.08 mm, No. of poles: 5, 180°, Clamping yoke connection, Clamping range, rated connection, max.: 4 mm <sup>2</sup> , Box	4032248617500 48 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 5.08HC/05/180F SN BK BX	<a href="#">1944360000</a>	PCB plug-in connector, female plug, 5.08 mm, No. of poles: 5, 180°, Clamping yoke connection, Clamping range, rated connection, max.: 4 mm <sup>2</sup> , Box	4032248618934 48 pc(s).		IEC: 400 V / 23 A / 0.2 - 4 mm <sup>2</sup> UL: 300 V / 20 A / AWG 30 - AWG 12	Box

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**Mating connector (fully pluggable)**
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In terms of versatility, the BLF 5.08HC offers just as much as the version which served as a model:

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- 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	Order No.	Version	GTIN (EAN)	Qty.	Product data	Packaging
BLF 5.08HC/05/270F SN OR BX	<a href="#">1982920000</a>	PCB plug-in connector, female plug, 5.08 mm, No. of poles: 5, 270°, PUSH IN, Clamping range, rated connection, max.: 3.31 mm <sup>2</sup> , Box	4032248687015	48 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
Discontinued	2016-04-08T00:00:00+02:00	BLF 5.08HC/05/270F SN BK BX	<a href="#">1982150000</a>	PCB plug-in connector, female plug, 5.08 mm, No. of poles: 5, 270°, PUSH IN, Clamping range, rated connection, max.: 3.31 mm <sup>2</sup> , Box	4032248686247	48 pc(s).

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**General ordering data**

Type	Order No.	Version	GTIN (EAN)	Qty.	Product data	Packaging
BLF 5.08HC/05/270LR SN BK BX	<a href="#">1982340000</a>	PCB plug-in connector, female plug, 5.08 mm, No. of poles: 5, 270°, PUSH IN, Clamping range, rated connection, max.: 3.31 mm <sup>2</sup> , Box	4032248686438	48 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
BLF 5.08HC/05/270LR SN OR BX	<a href="#">1983110000</a>	PCB plug-in connector, female plug, 5.08 mm, No. of poles: 5, 270°, PUSH IN, Clamping range, rated connection, max.: 3.31 mm <sup>2</sup> , Box	4032248687206	48 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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In terms of versatility, the BLF 5.08HC offers just as much as the version which served as a model:

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- Use the BLF 5.08HC and SL 5.08HC plug combination to reach the max. rated specifications

**General ordering data**

Type	Order No.	Version	GTIN (EAN)	Qty.	Product data	Packaging
BLF 5.08HC/05/90LR SN BK BX	<a href="#">1000440001</a>	PCB plug-in connector, female plug, 5.08 mm, No. of poles: 5, 90°, PUSH IN, Clamping range, rated connection, max.: 3.31 mm <sup>2</sup> , Box	4032248690404	48 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
BLF 5.08HC/05/90LR SN OR BX	<a href="#">1002310000</a>	PCB plug-in connector, female plug, 5.08 mm, No. of poles: 5, 90°, PUSH IN, Clamping range, rated connection, max.: 3.31 mm <sup>2</sup> , Box	4032248694471	48 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

**BLZP 5.08HC/270F 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 5.08HC/05/270F SN BK BX	<a href="#">1950580000</a>	PCB plug-in connector, female plug, 5.08 mm, No. of poles: 5, 270°, Clamping yoke connection, Clamping	4032248628711	48 pc(s).	IEC: 400 V / 23 A / 0.2 - 4 mm <sup>2</sup> UL: 300 V / 20 A / AWG 30 - AWG 12	Box

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**Mating connector (fully pluggable)**

		range, rated connection, max.: 4 mm <sup>2</sup> , Box			
BLZP	<a href="#">1950340000</a>	PCB plug-in connector, female plug, 5.08 mm, No. of poles: 5, 270°, Clamping yoke connection, Clamping range, rated connection, max.: 4 mm <sup>2</sup> , Box	4032248628469 48 pc(s).	IEC: 400 V / 23 A / 0.2 - 4 mm <sup>2</sup> UL: 300 V / 20 A / AWG 30 - AWG 12	Box
5.08HC/05/270F SN OR BX					

**BLDF 5.08/180LR SN**


The powerful daisy-chain solution for high-performance signal bus applications is also suitable for 400V auxiliary power chains with 18.5 A 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, so you can design the interlock based on the requirements of the user.

**General ordering data**

Type	Order No.	Version	GTIN (EAN)	Qty.	Product data	Packaging
BLDF	<a href="#">1065160000</a>	PCB plug-in connector, female plug, 5.08 mm, No. of poles: 5, 180°, PUSH IN, Clamping range, rated connection, max.: 3.31 mm <sup>2</sup> , Box	4032248817870 32 pc(s).		IEC: 400 V / 20.8 A / 0.2 - 2.5 mm <sup>2</sup> UL: 300 V / 10 A / AWG 12 - AWG 26	Box
5.08/05/180LR SN OR BX						
BLDF	<a href="#">1001040000</a>	PCB plug-in connector, female plug, 5.08 mm, No. of poles: 5, 180°, PUSH IN, Clamping range, rated connection, max.: 3.31 mm <sup>2</sup> , Box	4032248817467 32 pc(s).		IEC: 400 V / 20.8 A / 0.2 - 2.5 mm <sup>2</sup> UL: 300 V / 10 A / AWG 12 - AWG 26	Box
5.08/05/180LR SN BK BX						

**BLT 5.08HC/180LR**


Female plugs with TOP screw connection system for connecting wires with straight wire outlet and release latch mechanism. The female connectors provide space for labelling and can be coded. HC = High Current.

**General ordering data**

Type	Order No.	Version	GTIN (EAN)	Qty.	Product data	Packaging
BLT	<a href="#">1890250000</a>	PCB plug-in connector, female plug, 5.08 mm, No. of poles: 5, 180°, TOP	4032248498734 48 pc(s).		IEC: 400 V / 27 A / 0.2 - 2.5 mm <sup>2</sup> UL: 300 V / 17 A / AWG 26 - AWG 14	Box
5.08HC/05/180LR SN OR BX						

Creation date October 13, 2016 11:57:03 AM CEST

**OMNIMATE Signal - series BL/SL 5.08  
SL-SMT 5.08HC/05/270FL 3.2SN BK BX**

**Weidmüller Interface GmbH & Co. KG**  
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D-32758 Detmold  
Germany  
Fon: +49 5231 1429-0  
Fax: +49 5231 14292083  
www.weidmueller.com

**Mating connector (fully pluggable)**

connection, Clamping  
range, rated connection,  
max.: 2.5 mm<sup>2</sup>, Box

Discontinued	2016-04-08T00:00:00+02:00	BLT 5.08HC/05/180LR SN <a href="#">1894160000</a> BK BX	PCB plug-in connector, female plug, 5.08 mm, No. of poles: 5, 180°, TOP connection, Clamping range, rated connection, max.: 2.5 mm <sup>2</sup> , Box	4032248508402	48 pc(s).
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**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 5.08/05/90FI 3.2SN OR BX	<a href="#">1843780000</a>	PCB plug-in connector, female header, Inverted flange, THT solder connection, 5.08 mm, No. of poles: 5, 90°, Solder pin length (l): 3.2 mm, tinned, Orange, Box	403224835532	48 pc(s).	IEC: 400 V / 23 A UL: 300 V / 15 A	Box

**BLZP 5.08HC/90LR**


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 5.08HC/05/90LR SN OR BX	<a href="#">1087280000</a>	PCB plug-in connector, female plug, 5.08 mm, No. of poles: 5, 90°, Clamping	4032248854462	48 pc(s).	IEC: 400 V / 23 A / 0.2 - 4 mm <sup>2</sup> UL: 300 V / 20 A / AWG 30 - AWG 12	Box

Creation date October 13, 2016 11:57:03 AM CEST

**OMNIMATE Signal - series BL/SL 5.08  
SL-SMT 5.08HC/05/270FL 3.2SN BK BX**

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**Mating connector (fully pluggable)**

yoke connection, Clamping  
range, rated connection,  
max.: 4 mm<sup>2</sup>, Box

BLZP 5.08HC/05/90LR SN BK BX	<a href="#">1087050000</a>	PCB plug-in connector, female plug, 5.08 mm, No. of poles: 5, 90°, Clamping yoke connection, Clamping range, rated connection, max.: 4 mm <sup>2</sup> , Box	4032248853724 48 pc(s).	IEC: 400 V / 23 A / 0.2 - 4 mm <sup>2</sup> UL: 300 V / 20 A / AWG 30 - AWG 12	Box
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**BLT 5.08HC/180F**


Female plugs with TOP screw connection system for connecting wires with straight outlet direction and screw flange. The female connectors provide space for labelling and can be coded. HC = High Current.

**General ordering data**

Type	Order No.	Version	GTIN (EAN)	Qty.	Product data	Packaging
BLT 5.08HC/05/180F SN OR BX	<a href="#">1844020000</a>	PCB plug-in connector, female plug, 5.08 mm, No. of poles: 5, 180°, TOP connection, Clamping range, rated connection, max.: 2.5 mm <sup>2</sup> , Box	4032248355945	48 pc(s).	IEC: 400 V / 27 A / 0.2 - 2.5 mm <sup>2</sup> UL: 300 V / 17 A / AWG 26 - AWG 14	Box
BLT 5.08HC/05/180F SN BK BX	<a href="#">1844250000</a>	PCB plug-in connector, female plug, 5.08 mm, No. of poles: 5, 180°, TOP connection, Clamping range, rated connection, max.: 2.5 mm <sup>2</sup> , Box	4032248356188	48 pc(s).	IEC: 400 V / 27 A / 0.2 - 2.5 mm <sup>2</sup> UL: 300 V / 17 A / AWG 26 - AWG 14	Box

**OMNIMATE Signal - series BL/SL 5.08  
SL-SMT 5.08HC/05/270FL 3.2SN BK BX**

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**Mating connector (fully pluggable)**
**BLDF 5.08/180F 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	Order No.	Version	GTIN (EAN)	Qty.	Product data	Packaging
BLDF 5.08/05/180F SN OR BX	<a href="#">1065080000</a>	PCB plug-in connector, female plug, 5.08 mm, No. of poles: 5, 180°, PUSH IN, Clamping range, rated connection, max.: 3.31 mm <sup>2</sup> , Box	4032248817856	32 pc(s).	IEC: 400 V / 20.8 A / 0.2 - 2.5 mm <sup>2</sup> UL: 300 V / 10 A / AWG 12 - AWG 26	Box
BLDF 5.08/05/180F SN BK BX	<a href="#">1000970000</a>	PCB plug-in connector, female plug, 5.08 mm, No. of poles: 5, 180°, PUSH IN, Clamping range, rated connection, max.: 3.31 mm <sup>2</sup> , Box	4032248817337	32 pc(s).	IEC: 400 V / 20.8 A / 0.2 - 2.5 mm <sup>2</sup> UL: 300 V / 10 A / AWG 12 - AWG 26	Box

## OMNIMATE Signal - series BL/SL 5.08 SL-SMT 5.08HC/05/270FL 3.2SN BK BX

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# Accessories

## 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	Order No.	Version	GTIN (EAN)	Qty.	Product data
BLZ/SL KO BK BX	<a href="#">1545710000</a>	PCB plug-in connector, Accessories, Coding element, Black, No. of poles: 1	4008190087142	50 pc(s).	
BLZ/SL KO OR BX	<a href="#">1573010000</a>	PCB plug-in connector, Accessories, Coding element, Orange, No. of poles: 1	4008190048396	100 pc(s).	

## Additional accessories



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

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	Order No.	Version	GTIN (EAN)	Qty.	Product data
SL AT SW	<a href="#">1770240000</a>	PCB plug-in connector, Accessories, Partition	4032248117710	100 pc(s).	

**Data sheet****OMNIMATE Signal - series BL/SL 5.08  
SL-SMT 5.08HC/05/270FL 3.2SN BK BX**

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**Accessories**

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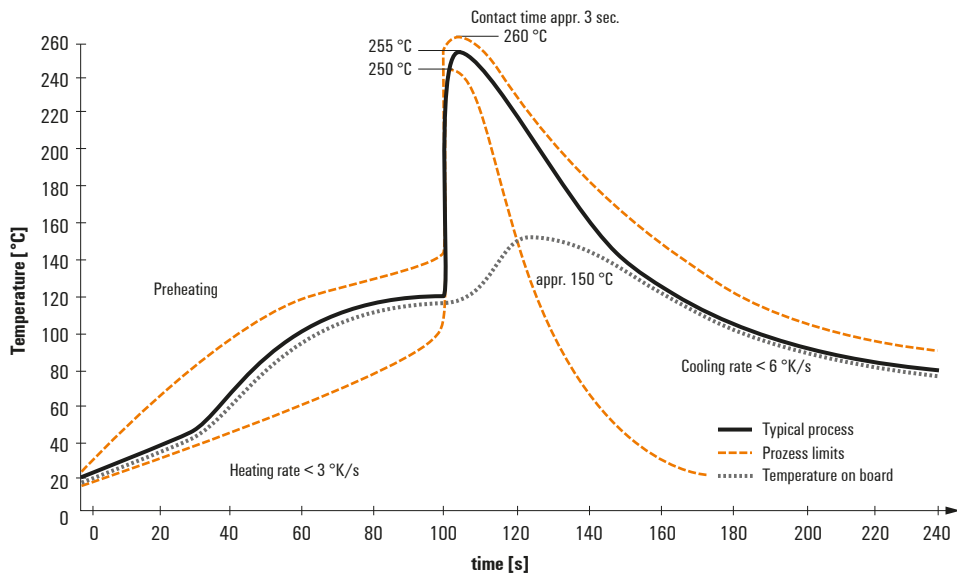
	element, Black, No. of poles: 1	
SL AT OR <a href="#">1598300000</a>	PCB plug-in connector, Accessories, Partition element, Orange, No. of poles: 1	4008190189266 100 pc(s).

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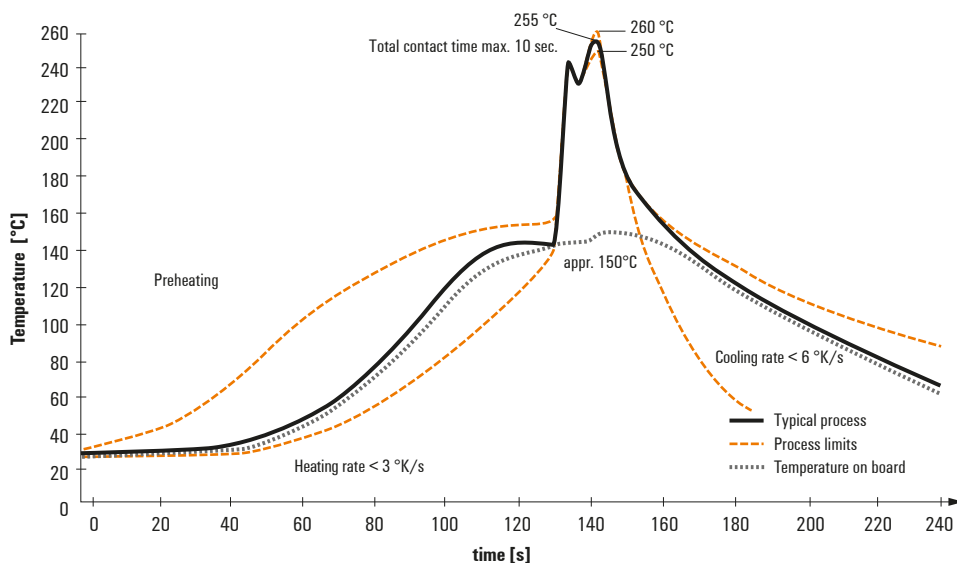
## Recommended wave soldering profiles

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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.

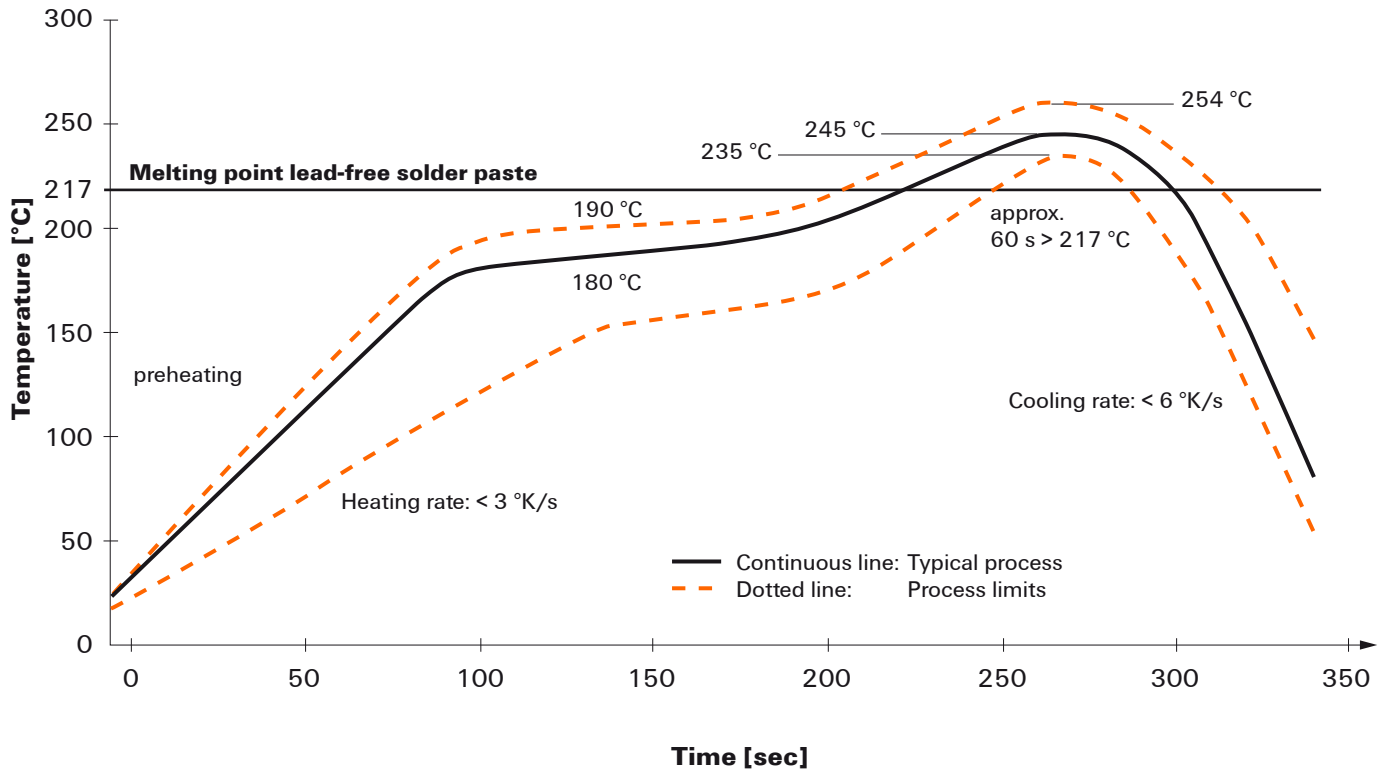
When choosing a suitable profile for your application, the following factors also need to be considered:

- 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.

## Recommended reflow soldering profile

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### Reflow soldering profile

The perfect soldering profile for SMT Surface Mount Technology is one the most exiting question in SMT production. But there are more than one correct answer: The diagram of temperature-on-time is related to processing features of solder paste and to maximum load of components.

We have to consider the following parameters:

- Time for pre heating
- Maximum temperature
- Time above melting point
- Time for cooling
- Maximum heating rate
- Maximum cooling rate

We recommend a typical solder profile with associated process limits. With preheating components and board are prepared smoothly for the solder phase. Heating rate is typically  $\leq +3\text{K/s}$ . In parallel the solder paste is ‚activated‘. The time above melting point of 217°C the paste gets liquid and components and boards begin to connect. The maximum temperature of 245°C to 254°C should stay between 10 and 40 seconds. In the cooling phase at  $\geq -6\text{K/s}$  solder is cured. Board and components cool down while avoiding cold cracks.

# Addresses worldwide




Let's connect.

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