

OMNIMATE Signal - series BL/SL 5.08

SL-SMT 5.08HC/02/270GH 1.5SN BK BX

Weidmüller Interface GmbH & Co. KG
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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

Type	SL-SMT 5.08HC/02/270GH 1.5SN BK BX
Order No.	1876340000
Version	PCB plug-in connector, male header, closed side, THT/THR solder connection, 5.08 mm, No. of poles: 2, 270°, Solder pin length (l): 1.5 mm, tinned, Black, Box
GTIN (EAN)	4032248466818
Qty.	100 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 1.74 g

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	2
Number of solder pins per pole	1	Solder pin length (l)	1.5 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	5.08 mm
L1 in inches	0.2 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	IIIa
CTI	≥ 175	Insulation resistance	≥ 10 ⁸ 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.		

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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
eClass 9.1	27-44-04-02		

Notes

Notes	• Gold-plated contact surfaces on request • Rated current related to rated cross-section & min. No. of 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.
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

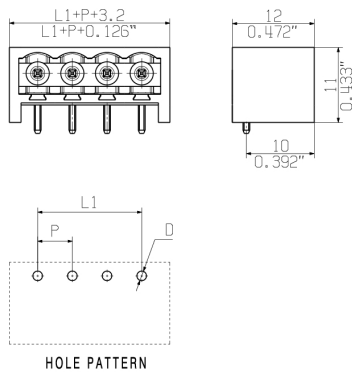
Downloads

EDA Layout Library (Mentor Graphics Expedition, Mentor Graphics Pads, Altium Designer)	Select your download
SMT white paper	Download Whitepaper
Safety notice	Safety indication

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Drawings



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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	Order No.	Version	GTIN (EAN)	Qty.	Product data	Packaging
BLZP 5.08HC/02/90 SN BK BX	1948240000	PCB plug-in connector, female plug, 5.08 mm, No. of poles: 2, 90°, Clamping yoke connection, Clamping range, rated connection, max.: 4 mm ² , Box	4032248624768	180 pc(s).	IEC: 400 V / 23 A / 0.2 - 4 mm ² UL: 300 V / 20 A / AWG 30 - AWG 12	Box
BLZP 5.08HC/02/90 SN OR BX	1948000000	PCB plug-in connector, female plug, 5.08 mm, No. of poles: 2, 90°, Clamping yoke connection, Clamping range, rated connection, max.: 4 mm ² , Box	4032248624225	180 pc(s).	IEC: 400 V / 23 A / 0.2 - 4 mm ² UL: 300 V / 20 A / AWG 30 - AWG 12	Box

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	Order No.	Version	GTIN (EAN)	Qty.	Product data	Packaging
BLDT 5.08/02/-B SN OR BX	1651740000	PCB plug-in connector, female plug, 5.08 mm, No. of poles: 2, 180°, Clamping yoke connection, Clamping range, rated connection, max.: 3.31 mm ² , Box	4008190400422	130 pc(s).	IEC: 400 V / 14 A / 0.2 - 2.5 mm ² UL: 300 V / 10 A / AWG 26 - AWG 12	Box
BLDT 5.08/02/-B SN BK BX	1673780000	PCB plug-in connector, female plug, 5.08 mm, No. of poles: 2, 180°, Clamping yoke connection, Clamping	4008190435509	130 pc(s).	IEC: 400 V / 14 A / 0.2 - 2.5 mm ² UL: 300 V / 10 A / AWG 26 - AWG 12	Box

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Mating connector (fully pluggable)

range, rated connection,
 max.: 3.31 mm², Box

BLZP 5.08HC/225 SN

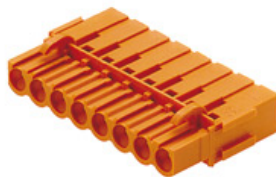


Clamping-yoke connection with right-angled (90° or 270°) or angled (225°) outlet direction. The female connectors provide space for labelling and can be coded. Fastened by means of a flange or release latch. The also provide an integrated plus/minus screw, protection against faulty insertion of the wire,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

General ordering data

Type	Order No.	Version	GTIN (EAN)	Qty.	Product data	Packaging
BLZP 5.08HC/02/225 SN BK BX	1946560000	PCB plug-in connector, female plug, 5.08 mm, No. of poles: 2, 225°, Clamping yoke connection, Clamping range, rated connection, max.: 4 mm ² , Box	4032248622337	180 pc(s).	IEC: 400 V / 17.5 A / 0.2 - 4 mm ² UL: 300 V / 15 A / AWG 30 - AWG 12	Box
BLZP 5.08HC/02/225 SN OR BX	1946250000	PCB plug-in connector, female plug, 5.08 mm, No. of poles: 2, 225°, Clamping yoke connection, Clamping range, rated connection, max.: 4 mm ² , Box	4032248621828	180 pc(s).	IEC: 400 V / 17.5 A / 0.2 - 4 mm ² UL: 300 V / 15 A / AWG 30 - AWG 12	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	Order No.	Version	GTIN (EAN)	Qty.	Product data	Packaging
BLC 5.08/02/180BR BK BX	1712110000	PCB plug-in connector, female plug, 5.08 mm, No. of poles: 2, 180°, Crimp connection, Clamping range, rated connection, max.: 2.5 mm ² , Box	4008190935122	100 pc(s).	IEC: 400 V / 21 A UL: 300 V / 10 A / AWG 26 - AWG 14	Box
BLC 5.08/02/180BR OR BX	1649370000	PCB plug-in connector, female plug, 5.08 mm, No. of poles: 2, 180°, Crimp	4008190294496	100 pc(s).	IEC: 400 V / 21 A UL: 300 V / 10 A / AWG 26 - AWG 14	Box

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Mating connector (fully pluggable)

connection, Clamping
 range, rated connection,
 max.: 2.5 mm², Box

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	1682730000	PCB plug-in connector,	4008190474492	150 pc(s).	IEC: 400 V / 23 A	Box
5.08/02/180B		female header, Dovetails for			UL: 300 V / 15 A	
3.2SN OR BX		fixing blocks, THT solder				
		connection, 5.08 mm, No.				
		of poles: 2, 180°, Solder pin				
		length (l): 3.2 mm, tinned,				
		Orange, Box				

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	1630710000	PCB plug-in connector,	4008190204136	180 pc(s).	IEC: 400 V / 23 A	Box
5.08/02/180		female header, closed side,			UL: 300 V / 15 A	
3.2 SN OR BX		THT solder connection,				
		5.08 mm, No. of poles: 2,				
		180°, Solder pin length (l):				
		3.2 mm, tinned, Orange,				
		Box				

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SL-SMT 5.08HC/02/270GH 1.5SN BK 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	Order No.	Version	GTIN (EAN)	Qty.	Product data	Packaging
BLF 5.08HC/02/270 SN BK BX	1981930000	PCB plug-in connector, female plug, 5.08 mm, No. of poles: 2, 270°, PUSH IN, Clamping range, rated connection, max.: 3.31 mm ² , Box	4032248684625	180 pc(s).	IEC: 400 V / 24 A / 0.2 - 2.5 mm ² UL: 300 V / 18.5 A / AWG 26 - AWG 12	Box
BLF 5.08HC/02/270 SN OR BX	1982700000	PCB plug-in connector, female plug, 5.08 mm, No. of poles: 2, 270°, PUSH IN, Clamping range, rated connection, max.: 3.31 mm ² , Box	4032248686797	180 pc(s).	IEC: 400 V / 24 A / 0.2 - 2.5 mm ² UL: 300 V / 18.5 A / AWG 26 - AWG 12	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	Order No.	Version	GTIN (EAN)	Qty.	Product data	Packaging
BLZP 5.08HC/02/270 SN OR BX	1948790000	PCB plug-in connector, female plug, 5.08 mm, No. of poles: 2, 270°, Clamping yoke connection, Clamping	4032248626243	180 pc(s).	IEC: 400 V / 23 A / 0.2 - 4 mm ² UL: 300 V / 20 A / AWG 30 - AWG 12	Box

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Mating connector (fully pluggable)

		range, rated connection, max.: 4 mm ² , Box			
BLZP	1949020000	PCB plug-in connector,	4032248626472 180 pc(s).	IEC: 400 V / 23 A / 0.2 - 4 mm ²	Box
5.08HC/02/270		female plug, 5.08 mm, No.		UL: 300 V / 20 A / AWG 30 - AWG 12	
SN BK BX		of poles: 2, 270°, Clamping yoke connection, Clamping range, rated connection, max.: 4 mm ² , 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	Order No.	Version	GTIN (EAN)	Qty.	Product data	Packaging
BLZP	1945750000	PCB plug-in connector,	4032248621095 150 pc(s).		IEC: 400 V / 17.5 A / 0.2 - 4 mm ²	Box
5.08HC/02/225B		female plug, 5.08 mm, No.			UL: 300 V / 15 A / AWG 30 - AWG 12	
SN OR BX		of poles: 2, 225°, Clamping yoke connection, Clamping range, rated connection, max.: 4 mm ² , Box				
BLZP	1945980000	PCB plug-in connector,	4032248621507 150 pc(s).		IEC: 400 V / 17.5 A / 0.2 - 4 mm ²	Box
5.08HC/02/225B		female plug, 5.08 mm, No.			UL: 300 V / 15 A / AWG 30 - AWG 12	
SN BK BX		of poles: 2, 225°, Clamping yoke connection, Clamping range, rated connection, max.: 4 mm ² , Box				

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	1622940000	PCB plug-in connector,	4008190194000 180 pc(s).		IEC: 400 V / 23 A	Box
5.08/02/90		female header, closed side,			UL: 300 V / 15 A	
3.2 SN OR BX		THT solder connection,				

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OMNIMATE Signal - series BL/SL 5.08

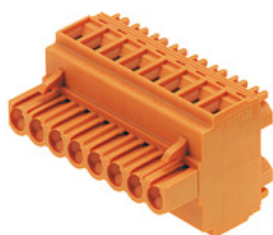
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Mating connector (fully pluggable)

5.08 mm, No. of poles: 2,
 90°, Solder pin length (l):
 3.2 mm, tinned, Orange,
 Box

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	Order No.	Version	GTIN (EAN)	Qty.	Product data	Packaging
BLDT 5.08/02/- SN BK BX	1660710000	PCB plug-in connector, female plug, 5.08 mm, No. of poles: 2, 180°, Clamping yoke connection, Clamping range, rated connection, max.: 3.31 mm ² , Box	4008190417161	150 pc(s).	IEC: 400 V / 14 A / 0.2 - 2.5 mm ² UL: 300 V / 10 A / AWG 26 - AWG 12	Box
BLDT 5.08/02/- SN OR BX	1644730000	PCB plug-in connector, female plug, 5.08 mm, No. of poles: 2, 180°, Clamping yoke connection, Clamping range, rated connection, max.: 3.31 mm ² , Box	4008190283940	150 pc(s).	IEC: 400 V / 14 A / 0.2 - 2.5 mm ² UL: 300 V / 10 A / AWG 26 - AWG 12	Box

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 2.5mm² 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 5.08/02/180 SN OR BX	1001150000	PCB plug-in connector, female plug, 5.08 mm, No. of poles: 2, 180°, PUSH IN, Clamping range, rated connection, max.: 3.31 mm ² , Box	4032248818020	120 pc(s).	IEC: 400 V / 20.8 A / 0.2 - 2.5 mm ² UL: 300 V / 10 A / AWG 12 - AWG 26	Box

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Mating connector (fully pluggable)

BLDF	1000860000	PCB plug-in connector,	4032248817030 120 pc(s).	IEC: 400 V / 20.8 A / 0.2 - 2.5 mm ²	Box
5.08/02/180		female plug, 5.08 mm, No.		UL: 300 V / 10 A / AWG 12 - AWG 26	
SN BK BX		of poles: 2, 180°, PUSH IN, Clamping range, rated connection, max.: 3.31 mm ² , Box			

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	Order No.	Version	GTIN (EAN)	Qty.	Product data	Packaging
BLZP	1943580000	PCB plug-in connector,	4032248617562 180 pc(s).		IEC: 400 V / 23 A / 0.2 - 4 mm ²	Box
5.08HC/02/180		female plug, 5.08 mm, No.			UL: 300 V / 20 A / AWG 30 - AWG 12	
SN OR BX		of poles: 2, 180°, Clamping yoke connection, Clamping range, rated connection, max.: 4 mm ² , Box				
BLZP	1943810000	PCB plug-in connector,	4032248617821 180 pc(s).		IEC: 400 V / 23 A / 0.2 - 4 mm ²	Box
5.08HC/02/180		female plug, 5.08 mm, No.			UL: 300 V / 20 A / AWG 30 - AWG 12	
SN BK BX		of poles: 2, 180°, Clamping yoke connection, Clamping range, rated connection, max.: 4 mm ² , Box				

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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	Order No.	Version	GTIN (EAN)	Qty.	Product data	Packaging
BLF 5.08HC/02/90 SN OR BX	1001530000	PCB plug-in connector, female plug, 5.08 mm, No. of poles: 2, 90°, PUSH IN, Clamping range, rated connection, max.: 3.31 mm ² , Box	4032248693337	180 pc(s).	IEC: 400 V / 24 A / 0.2 - 2.5 mm ² UL: 300 V / 18.5 A / AWG 26 - AWG 12	Box
BLF 5.08HC/02/90 SN BK BX	1000030001	PCB plug-in connector, female plug, 5.08 mm, No. of poles: 2, 90°, PUSH IN, Clamping range, rated connection, max.: 3.31 mm ² , Box	4032248689965	180 pc(s).	IEC: 400 V / 24 A / 0.2 - 2.5 mm ² UL: 300 V / 18.5 A / AWG 26 - AWG 12	Box

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Mating connector (fully pluggable)

BLF 5.08HC/180 SN



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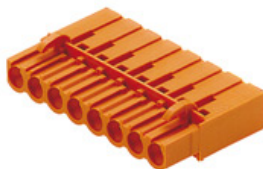
In terms of versatility, the BLF 5.08HC offers just as much as the version which served as a model:

- 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/02/180 SN OR BX	1013680000	PCB plug-in connector, female plug, 5.08 mm, No. of poles: 2, 180°, PUSH IN, Clamping range, rated connection, max.: 3.31 mm ² , Box	4032248721818 180 pc(s).		IEC: 400 V / 24 A / 0.2 - 2.5 mm ² UL: 300 V / 18.5 A / AWG 26 - AWG 12	Box
BLF 5.08HC/02/180 SN BK BX	1013430000	PCB plug-in connector, female plug, 5.08 mm, No. of poles: 2, 180°, PUSH IN, Clamping range, rated connection, max.: 3.31 mm ² , Box	4032248721580 180 pc(s).		IEC: 400 V / 24 A / 0.2 - 2.5 mm ² UL: 300 V / 18.5 A / AWG 26 - AWG 12	Box

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	Order No.	Version	GTIN (EAN)	Qty.	Product data	Packaging
BLC 5.08/02/180R BK BX	1711960000	PCB plug-in connector, female plug, 5.08 mm, No. of poles: 2, 180°, Crimp connection, Clamping	4008190934972 100 pc(s).		IEC: 400 V / 21 A UL: 300 V / 10 A / AWG 26 - AWG 14	Box

OMNIMATE Signal - series BL/SL 5.08
SL-SMT 5.08HC/02/270GH 1.5SN BK BX

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Mating connector (fully pluggable)

		range, rated connection, max.: 2.5 mm ² , Box		
BLC	1610490000	PCB plug-in connector,	4008190057114 100 pc(s).	IEC: 400 V / 21 A
5.08/02/180R		female plug, 5.08 mm, No.		UL: 300 V / 10 A / AWG 26 - AWG 14
OR BX		of poles: 2, 180°, Crimp connection, Clamping range, rated connection, max.: 2.5 mm ² , Box		Box

OMNIMATE Signal - series BL/SL 5.08 SL-SMT 5.08HC/02/270GH 1.5SN 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	Packaging
BLZ/SL KO OR BX	1573010000	PCB plug-in connector, Accessories, Coding element, Orange, No. of poles: 1	4008190048396	100 pc(s).		Box
BLZ/SL KO BK BX	1545710000	PCB plug-in connector, Accessories, Coding element, Black, No. of poles: 1	4008190087142	50 pc(s).		Box

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	Packaging
SL AT SW	1770240000	PCB plug-in connector, Accessories, Partition	4032248117710	100 pc(s).		Box

OMNIMATE Signal - series BL/SL 5.08
SL-SMT 5.08HC/02/270GH 1.5SN BK BX

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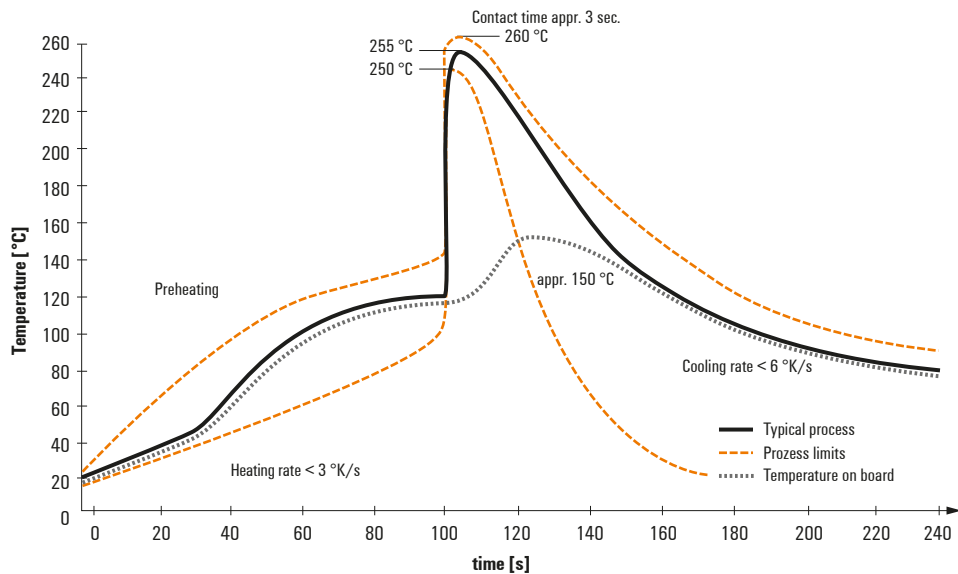
Accessories

		element, Black, No. of poles: 1		
SL AT OR	1598300000	PCB plug-in connector, Accessories, Partition element, Orange, No. of poles: 1	4008190189266 100 pc(s).	Box

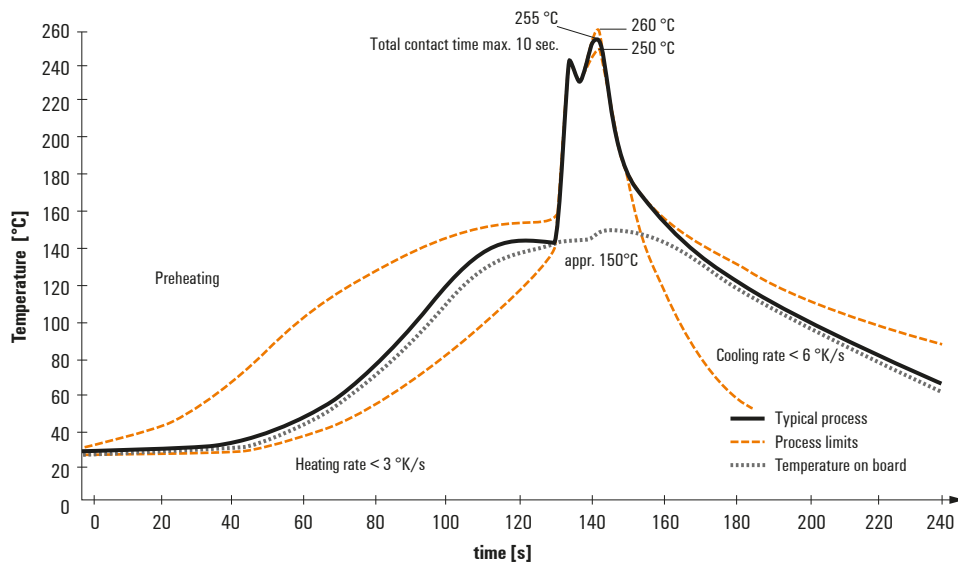
Recommended wave soldering profiles

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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.

We reserve the right to make technical changes.

Recommended reflow soldering profile

Weidmüller Interface GmbH & Co. KG

Klingenbergstraße 16

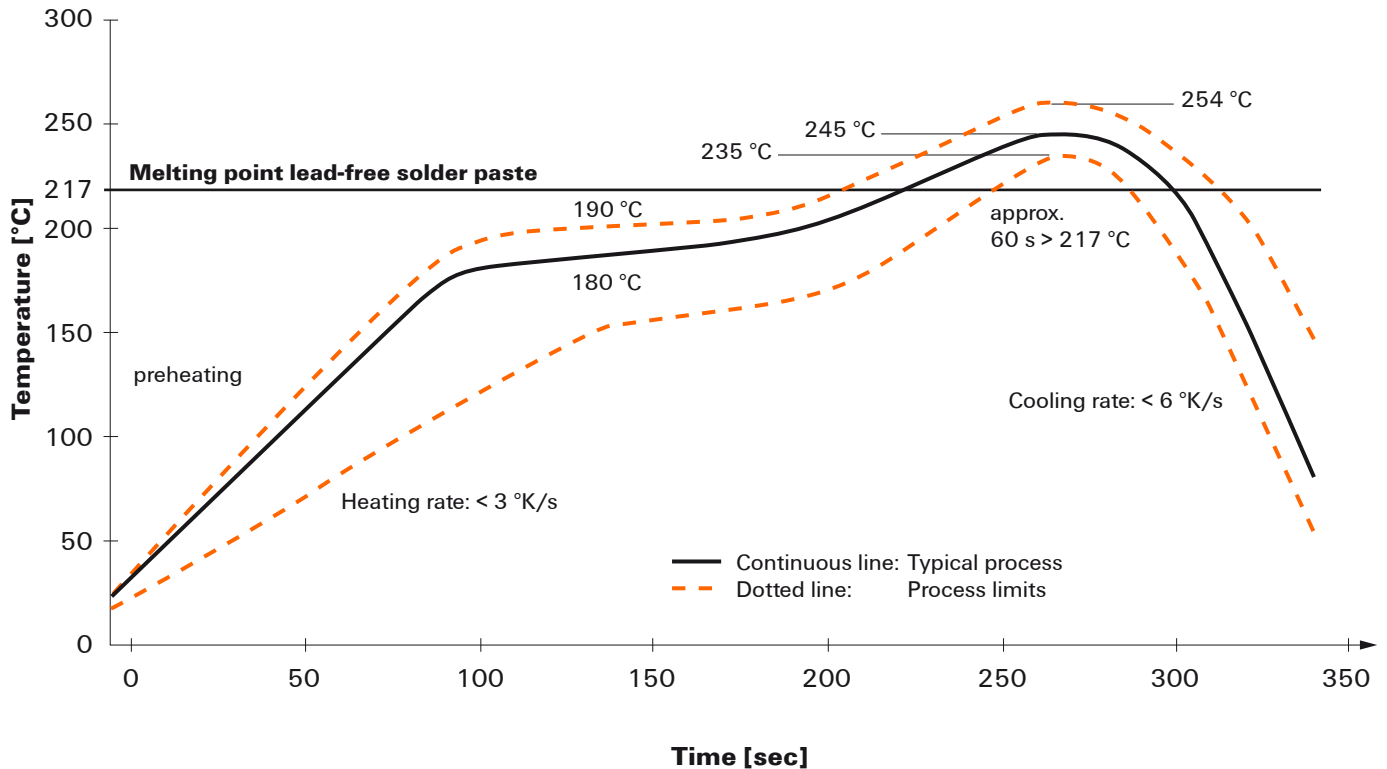
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Reflow soldering profile

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.

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