

OMNIMATE Signal - series BL/SL 5.08
SL-SMT 5.08HC/04/90F 3.2SN BK BX
Weidmüller Interface GmbH & Co. KG

Klingenbergstraße 16

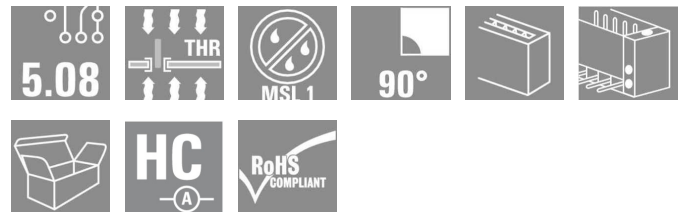
D-32758 Detmold

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High-temperature-resistant pin header, packed in box or tape. On tape, 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/04/90F 3.2SN BK BX
Order No.	1837650000
Version	PCB plug-in connector, male header, Flange, Reflow solder connection, 5.08 mm, No. of poles: 4, 90°, Solder pin length (l): 3.2 mm, tinned, Black, Box
GTIN (EAN)	4032248347469
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 2.6 g

System parameters

Product family	OMNIMATE Signal - series BL/SL 5.08	Mounting onto the PCB	Reflow solder connection
Outgoing elbow	90°	Pitch in mm (P)	5.08 mm
Pitch in inches (P)	0.2 inch	No. of poles	4
Solder pin length (l)	3.2 mm	Solder pin length tolerance	0 / -0.3 mm
Solder pin dimensions	d = 1.2 mm, Octagonal	Plugging cycles	25
Can be coded	Yes	Number of solder pins per pole	1
Solder eyelet hole diameter (D)	1.4 mm	Solder eyelet hole diameter tolerance (D)	+ 0, 1 mm
L1 in mm	15.24 mm	L1 in inches	0.6 inch
Insulation resistance	$\geq 10^8 \Omega$		

Material data

Insulating material	LCP GF	Moisture Level (MSL)	1
Colour	Black	Insulating material group	IIIa
UL 94 flammability rating	V-0	CTI	≥ 175
Contact material	CuSn	Layer structure of solder connection	2-3 μm Ni / 2-4 μm Sn matt
Coating	1-3 μm Ni, 5-7 μm SN	Contact surface	tinned
Operating temperature, min.	-50 °C	Operating temperature, max.	100 °C
Temperature range, installation, min.	-30 °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)	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 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

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

Notes

Notes	• Gold-plated contact surfaces on request • Rated current related to rated cross-section & min. No. of poles. • Diameter of solder eyelet D = 1.4+0.1mm • Solder eyelet diameter D = 1.5 + 0.1 mm, from 9 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

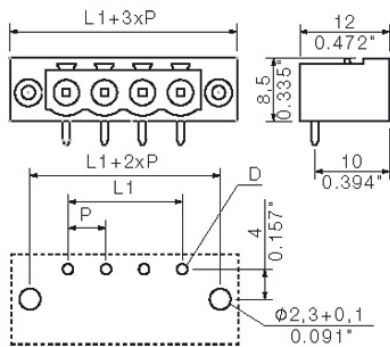
Downloads

EDA Layout Library (Mentor Graphics Expedition, Mentor Graphics Pads, Altium Designer) [Select your download](#)
[3-D model](#)

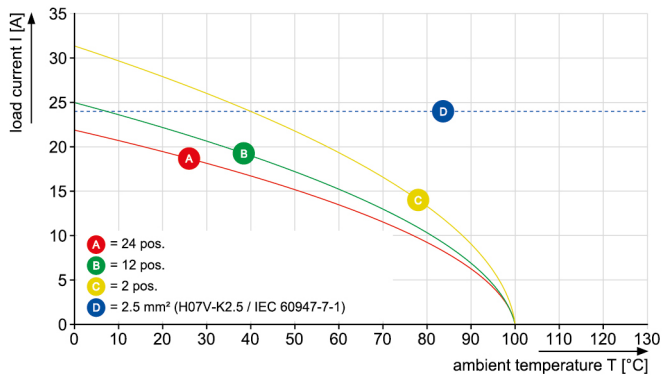
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Drawings



BLT 5.08HC/./180 - SL-SMT 5.08HC/./90



**OMNIMATE Signal - series BL/SL 5.08
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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 5.08/04/180 3.2 SN OR BX	1630730000	PCB plug-in connector, female header, closed side, Solder connection, 5.08 mm, No. of poles: 4, 180°, Solder pin length (l): 3.2 mm, tinned, Orange, Box	4008190204150 90 pc(s).		IEC: 400 V / 23 A UL: 300 V / 15 A	Box

BLZ 5.08/180


Female plugs with clamping-yoke screw for wire connection with straight (180°) outlet direction. The female plugs provide space for labelling and can be coded.

General ordering data

Delivery status Available until	Type	Order No.	Version	GTIN (EAN)	Qty.
This article will no longer be available in the future.	BLZ 5.08/04/180 SN BK BX	1526610000	PCB plug-in connector, female plug, 5.08 mm, No. of poles: 4, 180°, Clamping yoke connection, Clamping range, rated connection, max.: 3.31 mm², Box	4008190049454	100 pc(s).
This article will no longer be available in the future.	BLZ 5.08/04/180 SN OR BX	1526660000	PCB plug-in connector, female plug, 5.08 mm, No. of poles: 4, 180°, Clamping yoke connection, Clamping range, rated connection,	4008190148232	100 pc(s).

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Mating connector (conditionally pluggable)

max.: 3.31 mm²,
Box

BLZ 5.08/225


Female plugs with clamping-yoke screw for wire connection with 225° outlet direction. The female plugs provide space for labelling and can be coded.

General ordering data

Delivery status Available until	Type	Order No.	Version	GTIN (EAN)	Qty.
This article will no longer be available in the future.	BLZ 5.08/04/225 SN BK BX	1741890000	PCB plug-in connector, female plug, 5.08 mm, No. of poles: 4, 225°, Clamping yoke connection, Clamping range, rated connection, max.: 3.31 mm ² , Box	4008190254155	90 pc(s).
This article will no longer be available in the future.	BLZ 5.08/04/225 SN OR BX	1741660000	PCB plug-in connector, female plug, 5.08 mm, No. of poles: 4, 225°, Clamping yoke connection, Clamping range, rated connection, max.: 3.31 mm ² , Box	4008190202637	90 pc(s).

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Mating connector (conditionally pluggable)

BLZF 5.08/90



Female plugs with tension-clamp wire connection system. The female plugs provide space for labelling and can be coded.

General ordering data

Delivery status Available until	Type	Order No.	Version	GTIN (EAN)	Qty.
This article will no longer be available in the future.	BLZF 5.08/04/90 SN BK BX	1671040000	PCB plug-in connector, female plug, 5.08 mm, No. of poles: 4, 90°, Tension clamp connection, Clamping range, rated connection, max.: 3.31 mm², Box	4008190432713	90 pc(s).
This article will no longer be available in the future.	BLZF 5.08/04/90 SN OR BX	1670810000	PCB plug-in connector, female plug, 5.08 mm, No. of poles: 4, 90°, Tension clamp connection, Clamping range, rated connection, max.: 3.31 mm², Box	4008190432416	90 pc(s).

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 5.08/04/90 3.2 SN OR BX	1622960000	PCB plug-in connector, female header, closed side, Solder connection, 5.08 mm, No. of poles: 4, 90°	4008190194024	90 pc(s).	IEC: 400 V / 23 A UL: 300 V / 15 A	Box

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Mating connector (conditionally pluggable)

Solder pin length (l): 3.2
 mm, tinned, Orange, Box

BLZF 5.08/270


Female plugs with tension-clamp wire connection system.
 The female plugs provide space for labelling and can be coded.

General ordering data

Delivery status Available until	Type	Order No.	Version	GTIN (EAN)	Qty.
This article will no longer be available in the future.	BLZF 5.08/04/270 SN BK BX	1672190000	PCB plug-in connector, female plug, 5.08 mm, No. of poles: 4, 270°, Tension clamp connection, Clamping range, rated connection, max.: 3.31 mm ² , Box	4008190433901	90 pc(s).
This article will no longer be available in the future.	BLZF 5.08/04/270 SN OR BX	1671960000	PCB plug-in connector, female plug, 5.08 mm, No. of poles: 4, 270°, Tension clamp connection, Clamping range, rated connection, max.: 3.31 mm ² , Box	4008190433673	90 pc(s).

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Mating connector (conditionally pluggable)

BLZP 5.08HC/270 SN

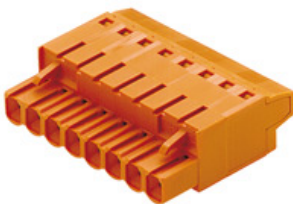


Female plugs with clamping-yoke connection for connecting wires with a right-angle (90° or 270°) outlet direction. The female connectors provide space for labelling and can be coded. Fastened by means of a flange or release latch. They also provide an integrated plus/minus screw, protection against faulty 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/04/270 SN OR BX	1948810000	PCB plug-in connector, female plug, 5.08 mm, No. of poles: 4, 270°, Clamping yoke connection, Clamping range, rated connection, max.: 4 mm ² , Box	4032248626267 90 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/04/270 SN BK BX	1949040000	PCB plug-in connector, female plug, 5.08 mm, No. of poles: 4, 270°, Clamping yoke connection, Clamping range, rated connection, max.: 4 mm ² , Box	4032248626496 90 pc(s).		IEC: 400 V / 23 A / 0.2 - 4 mm ² UL: 300 V / 20 A / AWG 30 - AWG 12	Box

BLT 5.08HC



Female plugs with TOP screw connection system for connecting wires with straight 180° outlet direction. 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/04/180 SN BK BX	1499710000	PCB plug-in connector, female plug, 5.08 mm, No. of poles: 4, 180°, TOP connection, Clamping range, rated connection, max.: 2.5 mm ² , Box	4008190861711 90 pc(s).		IEC: 400 V / 27 A / 0.2 - 2.5 mm ² UL: 300 V / 17 A / AWG 26 - AWG 14	Box
BLT 5.08HC/04/180 SN OR BX	1499760000	PCB plug-in connector, female plug, 5.08 mm, No. of poles: 4, 180°, TOP connection, Clamping	4008190037536 90 pc(s).		IEC: 400 V / 27 A / 0.2 - 2.5 mm ² UL: 300 V / 17 A / AWG 26 - AWG 14	Box

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Mating connector (conditionally pluggable)

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

BLZP 5.08HC/180 SN

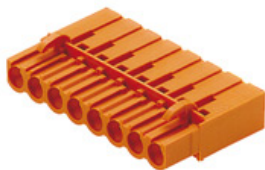


Female plug with clamping-yoke screw system for connecting wires with straight (180°) outlet direction. The female connectors provide space for labelling and can be coded. Fastened by means of a flange or release latch. They also provide an integrated plus/minus screw, protection against faulty insertion 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 5.08HC/04/180 SN BK BX	1943830000	PCB plug-in connector, female plug, 5.08 mm, No. of poles: 4, 180°, Clamping yoke connection, Clamping range, rated connection, max.: 4 mm ² , Box	4032248617869	90 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/04/180 SN OR BX	1943600000	PCB plug-in connector, female plug, 5.08 mm, No. of poles: 4, 180°, Clamping yoke connection, Clamping range, rated connection, max.: 4 mm ² , Box	4032248617593	90 pc(s).	IEC: 400 V / 23 A / 0.2 - 4 mm ² UL: 300 V / 20 A / AWG 30 - 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 5.08/04/180R BK BX	1711980000	PCB plug-in connector, female plug, 5.08 mm, No. of poles: 4, 180°, Crimp connection, Clamping range, rated connection, max.: 2.5 mm ² , Box	4008190934996	100 pc(s).	IEC: 400 V / 21 A UL: 300 V / 10 A / AWG 26 - AWG 14	Box
BLC 5.08/04/180R OR BX	1610510000	PCB plug-in connector, female plug, 5.08 mm, No. of poles: 4, 180°, Crimp	4008190065102	100 pc(s).	IEC: 400 V / 21 A UL: 300 V / 10 A / AWG 26 - AWG 14	Box

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Mating connector (conditionally pluggable)

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

BL 5.08



Female plugs with leaf-spring wire connection system.
 The female plugs provide space for labelling.

General ordering data

Delivery status Available until	Type	Order No.	Version	GTIN (EAN)	Qty.
This article will no longer be available in the future.	BL 5.08/04/180 SN DKGN BX	1723850000	PCB plug-in connector, female plug, 5.08 mm, No. of poles: 4, 180°, Pressure clamp connection, Clamping range, rated connection, max.: 2.08 mm ² , Box	4008190376215	100 pc(s).
This article will no longer be available in the future.	BL 5.08/04/180 SN OR BX	1716340000	PCB plug-in connector, female plug, 5.08 mm, No. of poles: 4, 180°, Pressure clamp connection, Clamping range, rated connection, max.: 2.08 mm ² , Box	4008190376376	100 pc(s).
This article will no longer be available in the future.	BL 5.08/04/180 SN BK BX	1716490000	PCB plug-in connector, female plug, 5.08 mm, No. of poles: 4, 180°, Pressure clamp connection, Clamping range, rated connection, max.: 2.08 mm ² , Box	4008190376536	100 pc(s).

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Mating connector (conditionally pluggable)

BLZ 5.08/270



Female plugs with clamping-yoke screw connection. The female plugs provide space for labelling and can be coded.

General ordering data

Delivery status Available until	Type	Order No.	Version	GTIN (EAN)	Qty.
This article will no longer be available in the future.	BLZ 5.08/04/270 SN OR BX	1557560000	PCB plug-in connector, female plug, 5.08 mm, No. of poles: 4, 270°, Clamping yoke connection, Clamping range, rated connection, max.: 3.31 mm², Box	4008190104788	90 pc(s).
This article will no longer be available in the future.	BLZ 5.08/04/270 SN BK BX	1557510000	PCB plug-in connector, female plug, 5.08 mm, No. of poles: 4, 270°, Clamping yoke connection, Clamping range, rated connection, max.: 3.31 mm², Box	4008190269449	90 pc(s).

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	Order No.	Version	GTIN (EAN)	Qty.	Product data	Packaging
BLZP 5.08HC/04/225 SN BK BX	1946580000	PCB plug-in connector, female plug, 5.08 mm, No. of poles: 4, 225°, Clamping yoke connection, Clamping	4032248622351	90 pc(s).	IEC: 400 V / 17.5 A / 0.2 - 4 mm² UL: 300 V / 15 A / AWG 30 - AWG 12	Box

OMNIMATE Signal - series BL/SL 5.08

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Mating connector (conditionally pluggable)

		range, rated connection, max.: 4 mm ² , Box		
BLZP	1946270000	PCB plug-in connector,	4032248621842 90 pc(s).	IEC: 400 V / 17.5 A / 0.2 - 4 mm ² Box
5.08HC/04/225		female plug, 5.08 mm, No.		UL: 300 V / 15 A / AWG 30 - AWG 12
SN OR BX		of poles: 4, 225°, Clamping yoke connection, Clamping range, rated connection, max.: 4 mm ² , Box		

BLZ 5.08 QV2



Female plugs with clamping-yoke screw connections for connecting wire, with straight 180° wire outlet direction and internal cross-connections between connections 1-2 and 3-4. Bus current at 4 mm² (without wire-end ferrule) is up to 32 A. The female plugs can be coded.

General ordering data

Delivery status Available until	Type	Order No.	Version	GTIN (EAN)	Qty.
This article will no longer be available in the future.	BLZ 5.08/04/180QV2 SN BK BX PRT	1839780000	PCB plug-in connector, female plug, 5.08 mm, No. of poles: 4, 180°, Clamping yoke connection, Clamping range, rated connection, max.: 4 mm ² , Box	4032248350308	90 pc(s).
This article will no longer be available in the future.	BLZ 5.08/04/180QV2 SN OR BX PRT	1839770000	PCB plug-in connector, female plug, 5.08 mm, No. of poles: 4, 180°, Clamping yoke connection, Clamping range, rated connection, max.: 4 mm ² , Box	4032248350292	90 pc(s).

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Mating connector (conditionally pluggable)
BLZ 5.08F QV2


Female plugs with clamping-yoke screw connections for connecting wire, with straight 180° wire outlet direction and internal cross-connections between connections 1-2 and 3-4. Bus current at 4 mm² (without wire-end ferrule) is up to 32 A. The female plugs can be coded.

General ordering data

Delivery status Available until	Type	Order No.	Version	GTIN (EAN)	Qty.
This article will no longer be available in the future.	BLZ 5.08/04/180FQV2 SN OR BX PRT	1846870000	PCB plug-in connector, female plug, 5.08 mm, No. of poles: 4, 180°, Clamping yoke connection, Clamping range, rated connection, max.: 4 mm ² , Box	4032248362684	60 pc(s).
This article will no longer be available in the future.	BLZ 5.08/04/180FQV2 SN BK BX PRT	1844500000	PCB plug-in connector, female plug, 5.08 mm, No. of poles: 4, 180°, Clamping yoke connection, Clamping range, rated connection, max.: 4 mm ² , Box	4032248354948	60 pc(s).

BLIDC 5.08


Female plugs with IDC wire connection system. The female plugs provide space for labelling and can be coded.

General ordering data

Available until	Type	Order No.	Version	GTIN (EAN)	Qty.	Product data
2011-11-17	BLIDC 5.08/04/180 SN OR BX	1724960000	PCB plug-in connector, female plug, 5.08 mm, No. of poles: 4, 180°	4008190377304	100 pc(s).	IEC: 400 V / 11 A /

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Mating connector (conditionally pluggable)

IDC terminal,	0.5
Clamping range,	-
rated connection,	0.75
max.: 0.75 mm ² ,	mm ²
Box	UL:
	300
	V /
	5
	A /
	AWG
	22
	-
	AWG
	20

BLZ 5.08/90

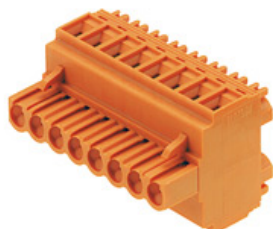

Female plugs with clamping-yoke screw connection.
 The female plugs provide space for labelling and can be coded.

General ordering data

Delivery status Available until	Type	Order No.	Version	GTIN (EAN)	Qty.
This article will no longer be available in the future.	BLZ 5.08/04/90 SN OR BX	1552960000	PCB plug-in connector, female plug, 5.08 mm, No. of poles: 4, 90°, Clamping yoke connection, Clamping range, rated connection, max.: 3.31 mm ² , Box	4008190123932	90 pc(s).
This article will no longer be available in the future.	BLZ 5.08/04/90 SN BK BX	1552910000	PCB plug-in connector, female plug, 5.08 mm, No. of poles: 4, 90°, Clamping yoke connection, Clamping range, rated connection, max.: 3.31 mm ² , Box	4008190267728	90 pc(s).

OMNIMATE Signal - series BL/SL 5.08
SL-SMT 5.08HC/04/90F 3.2SN BK BX

Weidmüller Interface GmbH & Co. KG
 Klingenbergstraße 16
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 Germany
 Fon: +49 5231 14-0
 Fax: +49 5231 14-292083
www.weidmueller.com

Mating connector (conditionally pluggable)
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 5.08/04/- SN BK BX	1660730000	PCB plug-in connector, female plug, 5.08 mm, No. of poles: 4, 180°, TOP connection, Clamping range, rated connection, max.: 3.31 mm², Box	4008190417185	75 pc(s).	IEC: 400 V / 14 A / 0.2 - 2.5 mm² UL: 300 V / 10 A / AWG 26 - AWG 12	Box
BLDT 5.08/04/- SN OR BX	1644750000	PCB plug-in connector, female plug, 5.08 mm, No. of poles: 4, 180°, TOP connection, Clamping range, rated connection, max.: 3.31 mm², Box	4008190283964	75 pc(s).	IEC: 400 V / 14 A / 0.2 - 2.5 mm² UL: 300 V / 10 A / AWG 26 - AWG 12	Box

BLZF 5.08/180


Female plugs with tension-clamp wire connection system, straight 180° outlet direction. The female plugs provide space for labelling and can be coded.

General ordering data

Delivery status Available until	Type	Order No.	Version	GTIN (EAN)	Qty.
This article will 2017-12-31T00:00:00+01:00 no longer be available in the future.	BLZF 5.08/04/180 SN BK BX	1707710000	PCB plug-in connector, female plug, 5.08 mm, No. of poles: 4, 180°, Tension clamp connection, Clamping range, rated connection, max.: 3.31 mm², Box	4008190316716	90 pc(s).

OMNIMATE Signal - series BL/SL 5.08 SL-SMT 5.08HC/04/90F 3.2SN BK BX

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Mating connector (fully pluggable)

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 5.08HC/04/270LR SN OR BX	1947550000	PCB plug-in connector, female plug, 5.08 mm, No. of poles: 4, 270°, Clamping yoke connection, Clamping range, rated connection, max.: 4 mm², Box	4032248623846 60 pc(s).		IEC: 400 V / 23 A / 0.2 - 4 mm² UL: 300 V / 20 A / AWG 30 - AWG 12	Box
BLZP 5.08HC/04/270LR SN BK BX	1947780000	PCB plug-in connector, female plug, 5.08 mm, No. of poles: 4, 270°, Clamping yoke connection, Clamping range, rated connection, max.: 4 mm², Box	4032248624171 60 pc(s).		IEC: 400 V / 23 A / 0.2 - 4 mm² UL: 300 V / 20 A / AWG 30 - AWG 12	Box

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/04/90F SN OR BX	1002110000	PCB plug-in connector, female plug, 5.08 mm, No. of poles: 4, 90°, PUSH IN, Clamping range, rated	4032248694068 60 pc(s).		IEC: 400 V / 24 A / 0.2 - 2.5 mm² UL: 300 V / 18.5 A / AWG 26 - AWG 12	Box

OMNIMATE Signal - series BL/SL 5.08 SL-SMT 5.08HC/04/90F 3.2SN BK BX

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Mating connector (fully pluggable)

		connection, max.: 3.31 mm ² , Box		
BLF	1000240001	PCB plug-in connector,	4032248690206 60 pc(s).	IEC: 400 V / 24 A / 0.2 - 2.5 mm ² Box
5.08HC/04/90F		female plug, 5.08 mm,		UL: 300 V / 18.5 A / AWG 26 - AWG
SN BK BX		No. of poles: 4, 90°, PUSH		12
		IN, Clamping range, rated		
		connection, max.: 3.31 mm ² , Box		

BLZ 5.08/180F



Female plugs with clamping-yoke screw connection for wire, with straight wire outlet and screw flange. The female plugs provide space for labelling and can be coded.

General ordering data

Delivery status Available until	Type	Order No.	Version	GTIN (EAN)	Qty.
This article will no longer be available in the future.	BLZ 5.08/04/180F SN OR BX	1802850000	PCB plug-in connector, female plug, 5.08 mm, No. of poles: 4, 180°, Clamping yoke connection, Clamping range, rated connection, max.: 3.31 mm ² , Box	4032248257928	60 pc(s).
This article will no longer be available in the future.	BLZ 5.08/04/180F SN BK BX	1803060000	PCB plug-in connector, female plug, 5.08 mm, No. of poles: 4, 180°, Clamping yoke connection, Clamping range, rated connection, max.: 3.31 mm ² , Box	4032248258161	60 pc(s).

OMNIMATE Signal - series BL/SL 5.08
SL-SMT 5.08HC/04/90F 3.2SN BK BX

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Mating connector (fully pluggable)
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/04/180F SN OR BX	1944110000	PCB plug-in connector, female plug, 5.08 mm, No. of poles: 4, 180°, Clamping yoke connection, Clamping range, rated connection, max.: 4 mm ² , Box	4032248617494	60 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/04/180F SN BK BX	1944350000	PCB plug-in connector, female plug, 5.08 mm, No. of poles: 4, 180°, Clamping yoke connection, Clamping range, rated connection, max.: 4 mm ² , Box	4032248618927	60 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/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 5.08HC/04/90F SN OR BX	1949820000	PCB plug-in connector, female plug, 5.08 mm, No. of poles: 4, 90°, Clamping yoke connection, Clamping range, rated connection, max.: 4 mm ² , Box	4032248627745	60 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/04/90F SN BK BX	1950060000	PCB plug-in connector, female plug, 5.08 mm, No. of poles: 4, 90°, Clamping yoke connection, Clamping	4032248627998	60 pc(s).	IEC: 400 V / 23 A / 0.2 - 4 mm ² UL: 300 V / 20 A / AWG 30 - AWG 12	Box

OMNIMATE Signal - series BL/SL 5.08 SL-SMT 5.08HC/04/90F 3.2SN BK BX

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Mating connector (fully pluggable)

range, rated connection,
max.: 4 mm², Box

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/04/180F SN BK BX	1844240000	PCB plug-in connector, female plug, 5.08 mm, No. of poles: 4, 180°, TOP connection, Clamping range, rated connection, max.: 2.5 mm ² , Box	4032248356171	60 pc(s).	IEC: 400 V / 27 A / 0.2 - 2.5 mm ² UL: 300 V / 17 A / AWG 26 - AWG 14	Box
BLT 5.08HC/04/180F SN OR BX	1844010000	PCB plug-in connector, female plug, 5.08 mm, No. of poles: 4, 180°, TOP connection, Clamping range, rated connection, max.: 2.5 mm ² , Box	4032248355938	60 pc(s).	IEC: 400 V / 27 A / 0.2 - 2.5 mm ² UL: 300 V / 17 A / AWG 26 - AWG 14	Box

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 5.08HC/04/180LR SN OR BX	1890240000	PCB plug-in connector, female plug, 5.08 mm, No. of poles: 4, 180°, TOP connection, Clamping range, rated connection, max.: 2.5 mm ² , Box	4032248498727	60 pc(s).	IEC: 400 V / 27 A / 0.2 - 2.5 mm ² UL: 300 V / 17 A / AWG 26 - AWG 14	Box
BLT 5.08HC/04/180LR SN BK BX	1894150000	PCB plug-in connector, female plug, 5.08 mm, No. of poles: 4, 180°, TOP	4032248508396	60 pc(s).	IEC: 400 V / 27 A / 0.2 - 2.5 mm ² UL: 300 V / 17 A / AWG 26 - AWG 14	Box

Creation date February 19, 2016 1:57:31 PM CET

OMNIMATE Signal - series BL/SL 5.08

SL-SMT 5.08HC/04/90F 3.2SN BK BX

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 Fax: +49 5231 14-292083
 www.weidmüller.com

Mating connector (fully pluggable)

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

BLZ 5.08/180LR



Female plugs with clamping-yoke screw connection for wire, with straight wire outlet and release latch mechanism. The female plugs provide space for labelling and can be coded.

General ordering data

Delivery status Available until	Type	Order No.	Version	GTIN (EAN)	Qty.
This article will no longer be available in the future.	BLZ 5.08/04/180LR SN BK BX	1892970000	PCB plug-in connector, female plug, 5.08 mm, No. of poles: 4, 180°, Clamping yoke connection, Clamping range, rated connection, max.: 3.31 mm ² , Box	4032248507115	60 pc(s).
This article will no longer be available in the future.	BLZ 5.08/04/180LR SN OR BX	1851220000	PCB plug-in connector, female plug, 5.08 mm, No. of poles: 4, 180°, Clamping yoke connection, Clamping range, rated connection, max.: 3.31 mm ² , Box	4032248381296	60 pc(s).

OMNIMATE Signal - series BL/SL 5.08
SL-SMT 5.08HC/04/90F 3.2SN BK BX

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Mating connector (fully pluggable)
BLT 5.08HC/180LH


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

General ordering data

Available until	Type	Order No.	Version	GTIN (EAN)	Qty.	Product data
2014-05-20	BLT 5.08HC/04/180LH SN BK BX	1892510000	PCB plug-in connector, female plug, 5.08 mm, No. of poles: 4, 180°, TOP connection, Clamping range, rated connection, max.: 2.5 mm², Box	4032248506552	60 pc(s).	IEC: 400 V / 27 A / 0.2 - 2.5 mm² UL: 300 V / 17 A / AWG 26 - AWG 14
BLT	1889980000	PCB plug-in connector, female plug, 5.08 mm, No. of poles: 4, 180°, TOP connection, Clamping range, rated connection, max.: 2.5 mm², Box	4032248498420	60 pc(s).	IEC: 400 V / 27 A / 0.2 - 2.5 mm² UL: 300 V / 17 A / AWG 26 - AWG 14	Box

OMNIMATE Signal - series BL/SL 5.08

SL-SMT 5.08HC/04/90F 3.2SN BK BX

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Mating connector (fully pluggable)

BLZP 5.08HC/270LH 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

Available until	Type	Order No.	Version	GTIN (EAN)	Qty.	Product data
2014-05-20	BLZP 5.08HC/04/270LH SN BK BX	1947260000	PCB plug-in connector, female plug, 5.08 mm, No. of poles: 4, 270°, Clamping yoke connection, Clamping range, rated connection, max.: 4 mm ² , Box	4032248623211	60 pc(s).	IEC: 400 V / 23 A / 0.2 - 4 mm ² UL: 300 V / 20 A / AWG 30 - AWG 12
2014-05-20	BLZP 5.08HC/04/270LH SN OR BX	1947030000	PCB plug-in connector, female plug, 5.08 mm, No. of poles: 4, 270°, Clamping yoke connection, Clamping range, rated connection, max.: 4 mm ² , Box	4032248622795	60 pc(s).	IEC: 400 V / 23 A / 0.2 - 4 mm ² UL: 300 V / 20 A / AWG 30 - AWG 12

OMNIMATE Signal - series BL/SL 5.08 SL-SMT 5.08HC/04/90F 3.2SN BK BX

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Mating connector (fully pluggable)

BLF 5.08HC/90LR 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/04/90LR SN OR BX	1002300000	PCB plug-in connector, female plug, 5.08 mm, No. of poles: 4, 90°, PUSH IN, Clamping range, rated connection, max.: 3.31 mm ² , Box	4032248694464 60 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/04/90LR SN BK BX	1000430001	PCB plug-in connector, female plug, 5.08 mm, No. of poles: 4, 90°, PUSH IN, Clamping range, rated connection, max.: 3.31 mm ² , Box	4032248690398 60 pc(s).		IEC: 400 V / 24 A / 0.2 - 2.5 mm ² UL: 300 V / 18.5 A / AWG 26 - AWG 12	Box

BLZF 5.08/180LH



Female plugs with the time-saving tension-clamp wire connection system, with straight outlet direction and release lever or release latch mechanism. The female plugs provide space for labelling and can be coded.

General ordering data

Available until	Type	Order No.	Version	GTIN (EAN)	Qty.	Product data
2015-12-31	BLZF 5.08/180LH SN OR BX	1895740000	PCB plug-in connector, female plug, 5.08 mm, No. of poles: 4,	4032248510467 60 pc(s).		IEC: 400 V / 17

OMNIMATE Signal - series BL/SL 5.08
SL-SMT 5.08HC/04/90F 3.2SN BK BX

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Mating connector (fully pluggable)

180°, Tension	A /
clamp connection,	0.2
Clamping range,	-
rated connection,	2.5
max.: 3.31 mm ² ,	mm ²
Box	UL:
	300
	V /
	15
	A /
	AWG
	26
	-
	AWG
	12

BLZF 5.08/180F


Female plugs with tension-clamp wire connection system, straight 180° outlet direction. The female plugs provide space for labelling and can be coded.

General ordering data

Delivery status Available until	Type	Order No.	Version	GTIN (EAN)	Qty.
This article will no longer be available in the future.	BLZF 5.08/04/180F SN BK BX	1803580000	PCB plug-in connector, female plug, 5.08 mm, No. of poles: 4, 180°, Tension clamp connection, Clamping range, rated connection, max.: 3.31 mm ² , Box	4032248258987	60 pc(s).
This article will no longer be available in the future.	BLZF 5.08/04/180F SN OR BX	1803350000	PCB plug-in connector, female plug, 5.08 mm, No. of poles: 4, 180°, Tension clamp connection, Clamping range, rated connection, max.: 3.31 mm ² , Box	4032248258758	60 pc(s).

OMNIMATE Signal - series BL/SL 5.08

SL-SMT 5.08HC/04/90F 3.2SN BK BX

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Mating connector (fully pluggable)

BLF 5.08HC/90LH 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	1000660001	PCB plug-in connector,	4032248690855	60 pc(s).	IEC: 400 V / 24 A / 0.2 - 2.5 mm ²	Box
5.08HC/04/90LH		female plug, 5.08 mm,			UL: 300 V / 18.5 A / AWG 26 - AWG	
SN BK BX		No. of poles: 4, 90°, PUSH			12	
		IN, Clamping range, rated				
		connection, max.: 3.31				
		mm ² , Box				
2014-05-20T08:02:04	1002500000	PCB plug-in	4032248694877	60 pc(s).	IEC:	
BLF 5.08HC/04/90LH SN OR BX		connector, female			400	
		plug, 5.08 mm,			V /	
		No. of poles: 4,			24	
		90°, PUSH IN,			A /	
		Clamping range,			0.2	
		rated connection,			-	
		max.: 3.31 mm ² ,			2.5	
		Box			mm ²	
					UL:	
					300	
					V /	
					18.5	
					A /	
					AWG	
					26	
					-	
					AWG	
					12	

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Mating connector (fully pluggable)

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/04/270F SN OR BX	1950330000	PCB plug-in connector, female plug, 5.08 mm, No. of poles: 4, 270°, Clamping yoke connection, Clamping range, rated connection, max.: 4 mm ² , Box	4032248628445	60 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/04/270F SN BK BX	1950570000	PCB plug-in connector, female plug, 5.08 mm, No. of poles: 4, 270°, Clamping yoke connection, Clamping range, rated connection, max.: 4 mm ² , Box	4032248628704	60 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/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/04/180LR SN BK BX	1945080000	PCB plug-in connector, female plug, 5.08 mm, No. of poles: 4, 180°, Clamping yoke connection, Clamping range, rated connection, max.: 4 mm ² , Box	4032248620227	60 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/04/180LR SN OR BX	1944850000	PCB plug-in connector, female plug, 5.08 mm, No. of poles: 4, 180°, Clamping yoke connection, Clamping	4032248619450	60 pc(s).	IEC: 400 V / 23 A / 0.2 - 4 mm ² UL: 300 V / 20 A / AWG 30 - AWG 12	Box

OMNIMATE Signal - series BL/SL 5.08

SL-SMT 5.08HC/04/90F 3.2SN BK BX

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Mating connector (fully pluggable)

range, rated connection,
 max.: 4 mm², Box

BLZ 5.08/180LH



Female plugs with clamping-yoke screw connection for wire, with straight wire outlet and release lever mechanism. The female plugs provide space for labelling and can be coded.

General ordering data

Available until	Type	Order No.	Version	GTIN (EAN)	Qty.	Product data
2014-06-23	BLZ 5.08/04/180LH SN BK BX	1893620000	PCB plug-in connector, female plug, 5.08 mm, No. of poles: 4, 180°, Clamping yoke connection, Clamping range, rated connection, max.: 3.31 mm ² , Box	4032248507801	60 pc(s).	IEC: 400 V / 19 A / 0.2 - 2.5 mm ² UL: 300 V / 15 A / AWG 26 - AWG 12
This article will no longer be available in the future.	2017-12-31T00:00:00+01:00	BLZ 5.08/04/180LH SN OR BX	1892210000	PCB plug-in connector, female plug, 5.08 mm, No. of poles: 4, 180°, Clamping yoke connection, Clamping range, rated connection, max.: 3.31 mm ² , Box	4032248505531	60 pc(s).

OMNIMATE Signal - series BL/SL 5.08

SL-SMT 5.08HC/04/90F 3.2SN BK BX

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Mating connector (fully pluggable)

BLZP 5.08HC/180LH 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

Available until	Type	Order No.	Version	GTIN (EAN)	Qty.	Product data
2014-05-20	BLZP 5.08HC/04/180LH SN BK BX	1945540000	PCB plug-in connector, female plug, 5.08 mm, No. of poles: 4, 180°, Clamping yoke connection, Clamping range, rated connection, max.: 4 mm², Box	4032248620715	60 pc(s).	IEC: 400 V / 23 A / 0.2 mm² UL: 300 V / 20 A / AWG 30 - AWG 12
BLZP 5.08HC/04/180LH SN OR BX	1945310000	PCB plug-in connector, female plug, 5.08 mm, No. of poles: 4, 180°, Clamping yoke connection, Clamping range, rated connection, max.: 4 mm², Box	4032248619887	60 pc(s).	IEC: 400 V / 23 A / 0.2 - 4 mm² UL: 300 V / 20 A / AWG 30 - AWG 12	Box

**OMNIMATE Signal - series BL/SL 5.08
SL-SMT 5.08HC/04/90F 3.2SN BK BX**

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Mating connector (fully pluggable)
BLZF 5.08/180LR


Female plugs with tension-clamp wire connection system, straight 180° outlet direction. The female plugs provide space for labelling and can be coded.

General ordering data

Delivery status Available until	Type	Order No.	Version	GTIN (EAN)	Qty.
This article will no longer be available in the future.	BLZF 5.08/04/180LR SN OR BX	1851430000	PCB plug-in connector, female plug, 5.08 mm, No. of poles: 4, 180°, Tension clamp connection, Clamping range, rated connection, max.: 3.31 mm², Box	4032248382804	60 pc(s).

Recommended reflow soldering profile

Weidmüller Interface GmbH & Co. KG

Klingenbergstraße 16

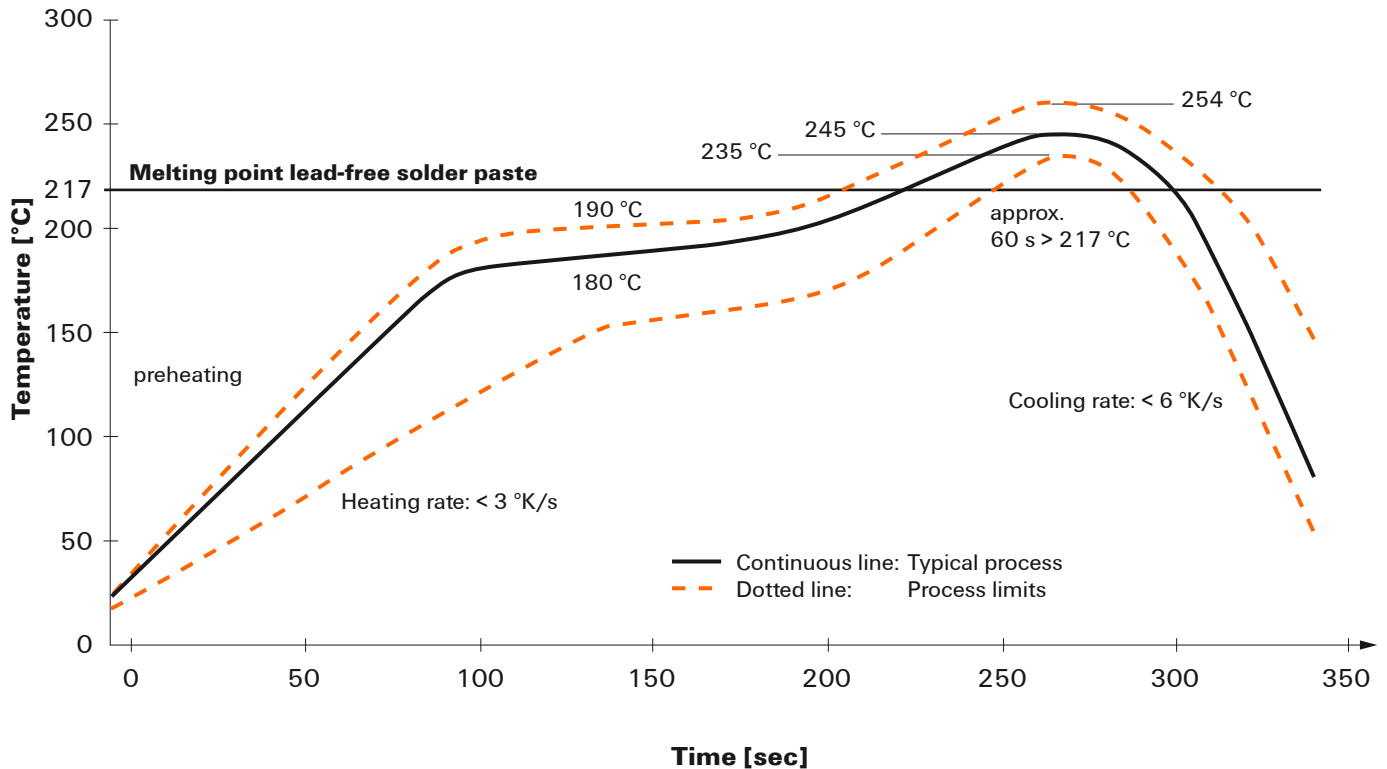
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Reflow soldering profile

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:

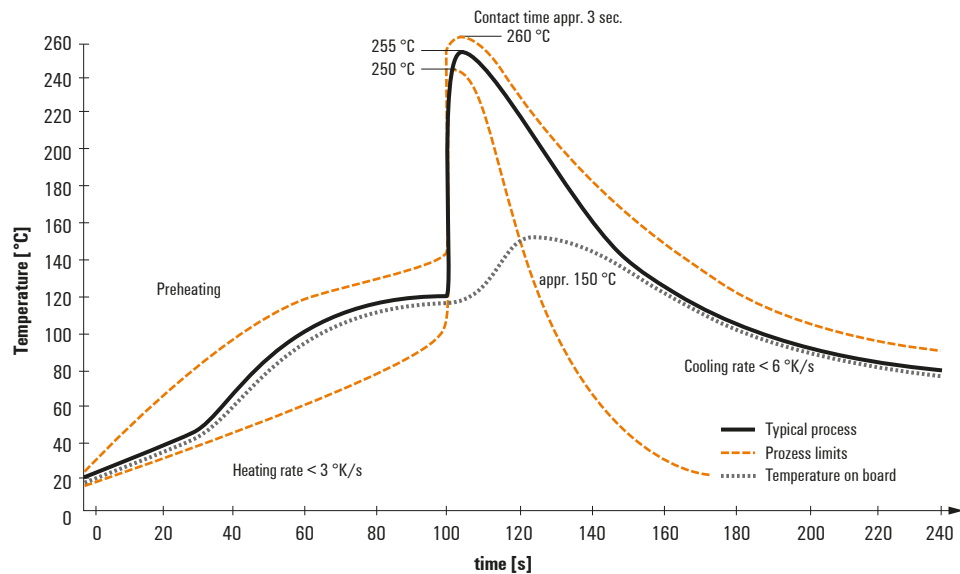
- Time for pre heating
- Maximum temperature
- Time above melting point
- Time for cooling
- Maximum heating rate
- Maximum cooling rate

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.

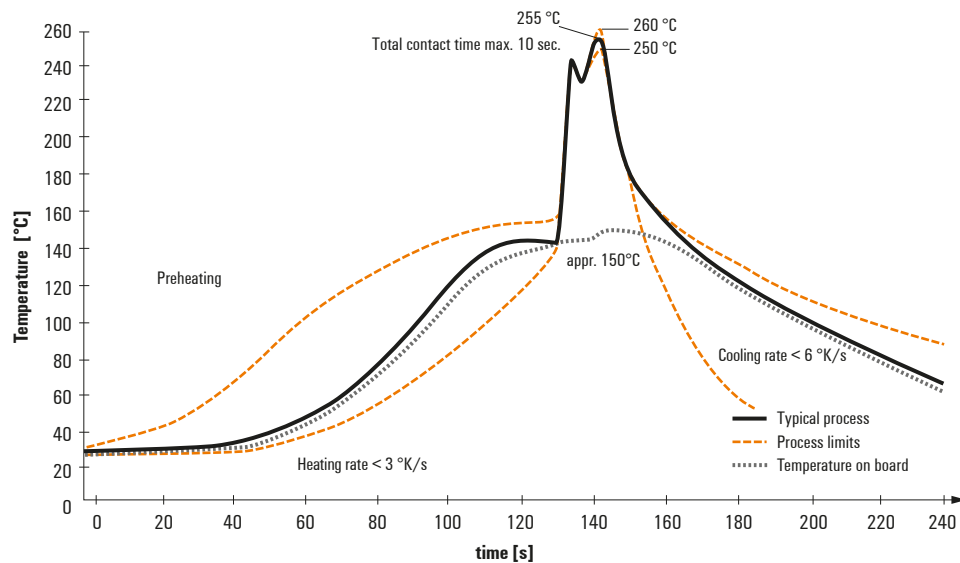
Recommended wave soldering profiles

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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.

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