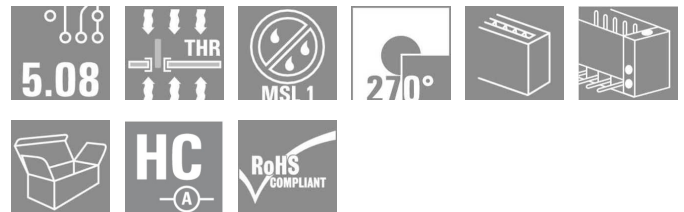


**OMNIMATE Signal - series BL/SL 5.08
SL-SMT 5.08HC/06/270FL 3.2SN BK BX**

Weidmüller Interface GmbH & Co. KG
Klingenbergstraße 16
D-32758 Detmold
Germany
Fon: +49 5231 1429-0
Fax: +49 5231 14292083
www.weidmueller.com



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/06/270FL 3.2SN BK BX
Order No.	1876890000
Version	PCB plug-in connector, male header, Solder flange, THT/THR solder connection, 5.08 mm, No. of poles: 6, 270°, Solder pin length (l): 3.2 mm, tinned, Black, Box
GTIN (EAN)	4032248467471
Qty.	50 pc(s).
Product data	IEC: 400 V / 27.5 A UL: 300 V / 18.5 A
Packaging	Box

**OMNIMATE Signal - series BL/SL 5.08
SL-SMT 5.08HC/06/270FL 3.2SN BK BX**

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Technical data**Dimensions and weights**

Net weight 3.662 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	6
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	25.4 mm
L1 in inches	1 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.		

Creation date October 13, 2016 11:57:31 AM CEST

**OMNIMATE Signal - series BL/SL 5.08
SL-SMT 5.08HC/06/270FL 3.2SN BK BX**

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Technical data**Rated data acc. to UL 1059**

Institute (UR)		Certificate No. (UR)	E60693
Rated voltage (use group B)	300 V	Rated voltage (use group D)	300 V
Rated current (use group B)	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"> • 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

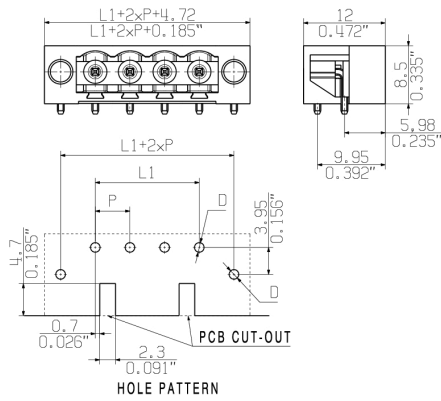
EDA Layout Library (Mentor Graphics Expedition, Mentor Graphics Pads, Altium Designer)	Select your download
SMT white paper	Download Whitepaper
Safety notice	Safety indication

Data sheet

**OMNIMATE Signal - series BL/SL 5.08
SL-SMT 5.08HC/06/270FL 3.2SN BK BX**

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Drawings



**OMNIMATE Signal - series BL/SL 5.08
SL-SMT 5.08HC/06/270FL 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/06/90F SN BK BX	1000260001	PCB plug-in connector, female plug, 5.08 mm, No. of poles: 6, 90°, PUSH IN, Clamping range, rated connection, max.: 3.31 mm ² , Box	4032248690220 42	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/06/90F SN OR BX	1002130000	PCB plug-in connector, female plug, 5.08 mm, No. of poles: 6, 90°, PUSH IN, Clamping range, rated connection, max.: 3.31 mm ² , Box	4032248694082 42	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/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/06/180LR SN BK BX	1945100000	PCB plug-in connector, female plug, 5.08 mm, No. of poles: 6, 180°, Clamping yoke connection, Clamping	4032248620241 42	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/06/270FL 3.2SN BK BX**

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www.weidmueller.com

Mating connector (fully pluggable)

		range, rated connection, max.: 4 mm ² , Box		
BLZP	1944870000	PCB plug-in connector, female plug, 5.08 mm, No. of poles: 6, 180°, Clamping yoke connection, Clamping range, rated connection, max.: 4 mm ² , Box	403224861948142 pc(s).	IEC: 400 V / 23 A / 0.2 - 4 mm ² Box UL: 300 V / 20 A / AWG 30 - AWG 12
5.08HC/06/180LR				
SN OR BX				

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	1012680000	PCB plug-in connector, female plug, 5.08 mm, No. of poles: 6, 180°, PUSH IN, Clamping range, rated connection, max.: 3.31 mm ² , Box	403224872033042 pc(s).		IEC: 400 V / 24 A / 0.2 - 2.5 mm ² UL: 300 V / 18.5 A / AWG 26 - AWG 12	Box
5.08HC/06/180F						
SN BK BX						
BLF	1013130000	PCB plug-in connector, female plug, 5.08 mm, No. of poles: 6, 180°, PUSH IN, Clamping range, rated connection, max.: 3.31 mm ² , Box	403224872088042 pc(s).		IEC: 400 V / 24 A / 0.2 - 2.5 mm ² UL: 300 V / 18.5 A / AWG 26 - AWG 12	Box
5.08HC/06/180F						
SN OR BX						

**OMNIMATE Signal - series BL/SL 5.08
SL-SMT 5.08HC/06/270FL 3.2SN BK BX**

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Mating connector (fully pluggable)
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/06/90F SN OR BX	1949840000	PCB plug-in connector, female plug, 5.08 mm, No. of poles: 6, 90°, Clamping yoke connection, Clamping range, rated connection, max.: 4 mm ² , Box	4032248627769 42 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/06/90F SN BK BX	1950080000	PCB plug-in connector, female plug, 5.08 mm, No. of poles: 6, 90°, Clamping yoke connection, Clamping range, rated connection, max.: 4 mm ² , Box	4032248628018 42 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/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

Delivery status Available until	Type	Order No.	Version	GTIN (EAN)	Qty.
Discontinued 2016-04-08T00:00:00+02:00	BLZP 5.08HC/06/270LR SN BK BX	1947800000	PCB plug-in connector, female plug, 5.08 mm, No. of poles: 6, 270°, Clamping yoke connection, Clamping range, rated connection, max.: 4 mm ² , Box	4032248624195	42 pc(s).
BLZP 5.08HC/06/270LR SN OR BX	PCB plug-in connector, female plug, 5.08 mm, No. of poles: 6, 270°, Clamping	1947570000	4032248623860 42 pc(s).	IEC: 400 V / 23 A / 0.2 - 4 mm ² UL: 300 V / 20 A / AWG 30 - AWG 12	Box

Creation date October 13, 2016 11:57:31 AM CEST

**OMNIMATE Signal - series BL/SL 5.08
SL-SMT 5.08HC/06/270FL 3.2SN BK BX**

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Mating connector (fully pluggable)

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

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

Type	Order No.	Version	GTIN (EAN)	Qty.	Product data	Packaging
BLF 5.08HC/06/180LR SN OR BX	1014420000	PCB plug-in connector, female plug, 5.08 mm, No. of poles: 6, 180°, PUSH IN, Clamping range, rated connection, max.: 3.31 mm ² , Box	4032248722945	42 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/06/180LR SN BK BX	1014160000	PCB plug-in connector, female plug, 5.08 mm, No. of poles: 6, 180°, PUSH IN, Clamping range, rated connection, max.: 3.31 mm ² , Box	4032248723171	42 pc(s).	IEC: 400 V / 24 A / 0.2 - 2.5 mm ² UL: 300 V / 18.5 A / AWG 26 - AWG 12	Box

**OMNIMATE Signal - series BL/SL 5.08
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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/06/180F SN OR BX	1944130000	PCB plug-in connector, female plug, 5.08 mm, No. of poles: 6, 180°, Clamping yoke connection, Clamping range, rated connection, max.: 4 mm ² , Box	4032248618712 42 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/06/180F SN BK BX	1944370000	PCB plug-in connector, female plug, 5.08 mm, No. of poles: 6, 180°, Clamping yoke connection, Clamping range, rated connection, max.: 4 mm ² , Box	4032248618941 42 pc(s).		IEC: 400 V / 23 A / 0.2 - 4 mm ² UL: 300 V / 20 A / AWG 30 - AWG 12	Box

BLF 5.08HC/270F SN


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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

Delivery status	Available until	Type	Order No.	Version	GTIN (EAN)	Qty.
Discontinued	2016-04-08T00:00:00+02:00	BLF 5.08HC/06/270F SN BK BX	1982160000	PCB plug-in connector, female plug, 5.08 mm, No. of poles: 6, 270°, PUSH IN,	4032248686254	42 pc(s).

**OMNIMATE Signal - series BL/SL 5.08
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www.weidmueller.com

Mating connector (fully pluggable)

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

BLF 5.08HC/06/270F SN OR BX	1982930000 PCB plug-in connector, female plug, 5.08 mm, No. of poles: 6, 270°, PUSH IN, Clamping range, rated connection, max.: 3.31 mm ² , Box	4032248687022 42 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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BLF 5.08HC/270LR SN


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

Delivery status	Available until	Type	Order No.	Version	GTIN (EAN)	Qty.
Discontinued	2016-04-08T00:00:00+02:00	BLF 5.08HC/06/270LR SN BK BX	1982350000	PCB plug-in connector, female plug, 5.08 mm, No. of poles: 6, 270°, PUSH IN, Clamping range, rated connection, max.: 3.31 mm ² , Box	4032248686445	42 pc(s).
BLF	1983120000	PCB plug-in connector, female plug, 5.08 mm, No. of poles: 6, 270°, PUSH IN, Clamping range, rated connection, max.: 3.31 mm ² , Box	4032248687213 42 pc(s).	IEC: 400 V / 24 A / 0.2 - 2.5 mm ² UL: 300 V / 18.5 A / AWG 26 - AWG 12	Box	

**OMNIMATE Signal - series BL/SL 5.08
SL-SMT 5.08HC/06/270FL 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/06/90LR SN BK BX	1000450001	PCB plug-in connector, female plug, 5.08 mm, No. of poles: 6, 90°, PUSH IN, Clamping range, rated connection, max.: 3.31 mm ² , Box	4032248690411	42 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/06/90LR SN OR BX	1002320000	PCB plug-in connector, female plug, 5.08 mm, No. of poles: 6, 90°, PUSH IN, Clamping range, rated connection, max.: 3.31 mm ² , Box	4032248694488	42 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/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/06/270F SN BK BX	1950620000	PCB plug-in connector, female plug, 5.08 mm, No. of poles: 6, 270°, Clamping yoke connection, Clamping	4032248628896	42 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/06/270FL 3.2SN BK BX**

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Fax: +49 5231 14292083
www.weidmueller.com

Mating connector (fully pluggable)

		range, rated connection, max.: 4 mm ² , Box			
BLZP	1950350000	PCB plug-in connector, female plug, 5.08 mm, No. of poles: 6, 270°, Clamping yoke connection, Clamping range, rated connection, max.: 4 mm ² , Box	4032248628476 42 pc(s).	IEC: 400 V / 23 A / 0.2 - 4 mm ² UL: 300 V / 20 A / AWG 30 - AWG 12	Box
5.08HC/06/270F 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 2.5mm² 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, 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	1001050000	PCB plug-in connector, female plug, 5.08 mm, No. of poles: 6, 180°, PUSH IN, Clamping range, rated connection, max.: 3.31 mm ² , Box	4032248817597 28 pc(s).		IEC: 400 V / 20.8 A / 0.2 - 2.5 mm ² UL: 300 V / 10 A / AWG 12 - AWG 26	Box
5.08/06/180LR SN BK BX						
BLDF	1065170000	PCB plug-in connector, female plug, 5.08 mm, No. of poles: 6, 180°, PUSH IN, Clamping range, rated connection, max.: 3.31 mm ² , Box	4032248817405 28 pc(s).		IEC: 400 V / 20.8 A / 0.2 - 2.5 mm ² UL: 300 V / 10 A / AWG 12 - AWG 26	Box
5.08/06/180LR SN OR 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	1890260000	PCB plug-in connector, female plug, 5.08 mm, No. of poles: 6, 180°, TOP	4032248498741 42 pc(s).		IEC: 400 V / 27 A / 0.2 - 2.5 mm ² UL: 300 V / 17 A / AWG 26 - AWG 14	Box
5.08HC/06/180LR SN OR BX						

Creation date October 13, 2016 11:57:31 AM CEST

**OMNIMATE Signal - series BL/SL 5.08
SL-SMT 5.08HC/06/270FL 3.2SN BK BX**

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Fax: +49 5231 14292083
www.weidmueller.com

Mating connector (fully pluggable)

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

Discontinued	2016-04-08T00:00:00+02:00	BLT 5.08HC/06/180LR SN 1894170000 BK BX	PCB plug-in connector, female plug, 5.08 mm, No. of poles: 6, 180°, TOP connection, Clamping range, rated connection, max.: 2.5 mm ² , Box	4032248508518	42 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 5.08/06/90FI 3.2SN OR BX	1843790000	PCB plug-in connector, female header, Inverted flange, THT solder connection, 5.08 mm, No. of poles: 6, 90°, Solder pin length (l): 3.2 mm, tinned, Orange, Box	4032248355549	42 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/06/90LR SN OR BX	1087290000	PCB plug-in connector, female plug, 5.08 mm, No. of poles: 6, 90°, Clamping	4032248854080	42 pc(s).	IEC: 400 V / 23 A / 0.2 - 4 mm ² UL: 300 V / 20 A / AWG 30 - AWG 12	Box

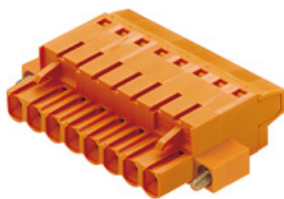
**OMNIMATE Signal - series BL/SL 5.08
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Mating connector (fully pluggable)

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

Discontinued	2016-04-08T00:00:00+02:00	BLZP 5.08HC/06/90LR SN 1087060000 BK BX	PCB plug-in connector, female plug, 5.08 mm, No. of poles: 6, 90°, Clamping yoke connection, Clamping range, rated connection, max.: 4 mm ² , Box	4032248853731	42 pc(s).
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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/06/180F SN BK BX	1844260000	PCB plug-in connector, female plug, 5.08 mm, No. of poles: 6, 180°, TOP connection, Clamping range, rated connection, max.: 2.5 mm ² , Box	4032248356195	42 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/06/180F SN OR BX	1844030000	PCB plug-in connector, female plug, 5.08 mm, No. of poles: 6, 180°, TOP connection, Clamping range, rated connection, max.: 2.5 mm ² , Box	4032248355952	42 pc(s).	IEC: 400 V / 27 A / 0.2 - 2.5 mm ² UL: 300 V / 17 A / AWG 26 - AWG 14	Box

**OMNIMATE Signal - series BL/SL 5.08
SL-SMT 5.08HC/06/270FL 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 2.5mm² 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 5.08/06/180F SN OR BX	1065090000	PCB plug-in connector, female plug, 5.08 mm, No. of poles: 6, 180°, PUSH IN, Clamping range, rated connection, max.: 3.31 mm ² , Box	4032248817801	28 pc(s).	IEC: 400 V / 20.8 A / 0.2 - 2.5 mm ² UL: 300 V / 10 A / AWG 12 - AWG 26	Box
BLDF 5.08/06/180F SN BK BX	1000980000	PCB plug-in connector, female plug, 5.08 mm, No. of poles: 6, 180°, PUSH IN, Clamping range, rated connection, max.: 3.31 mm ² , Box	4032248817375	28 pc(s).	IEC: 400 V / 20.8 A / 0.2 - 2.5 mm ² UL: 300 V / 10 A / AWG 12 - AWG 26	Box

OMNIMATE Signal - series BL/SL 5.08 SL-SMT 5.08HC/06/270FL 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	1545710000	PCB plug-in connector, Accessories, Coding element, Black, No. of poles: 1	4008190087142	50 pc(s).	
BLZ/SL KO OR BX	1573010000	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	1770240000	PCB plug-in connector, Accessories, Partition	4032248117710	100 pc(s).	

Data sheet**OMNIMATE Signal - series BL/SL 5.08
SL-SMT 5.08HC/06/270FL 3.2SN BK BX**

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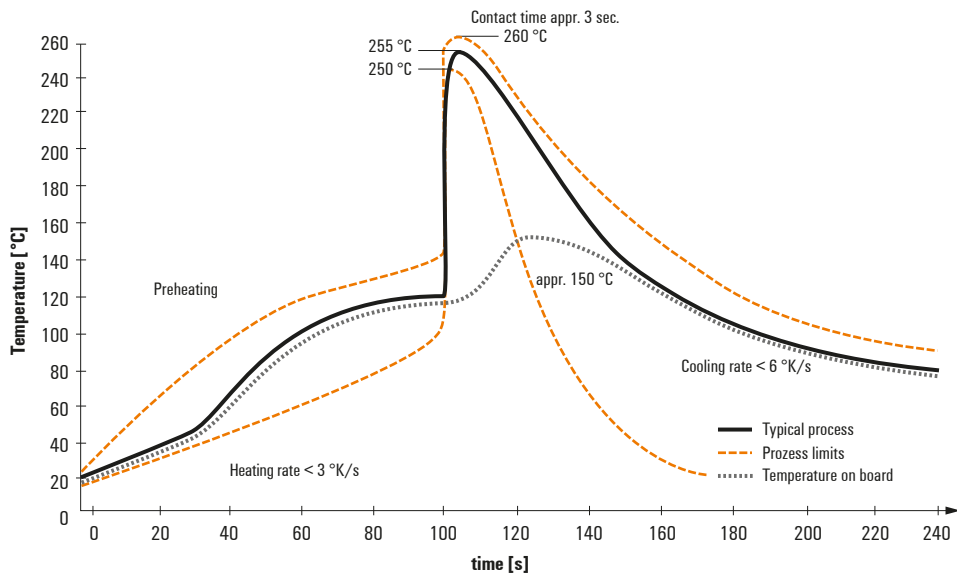
Accessories

		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).

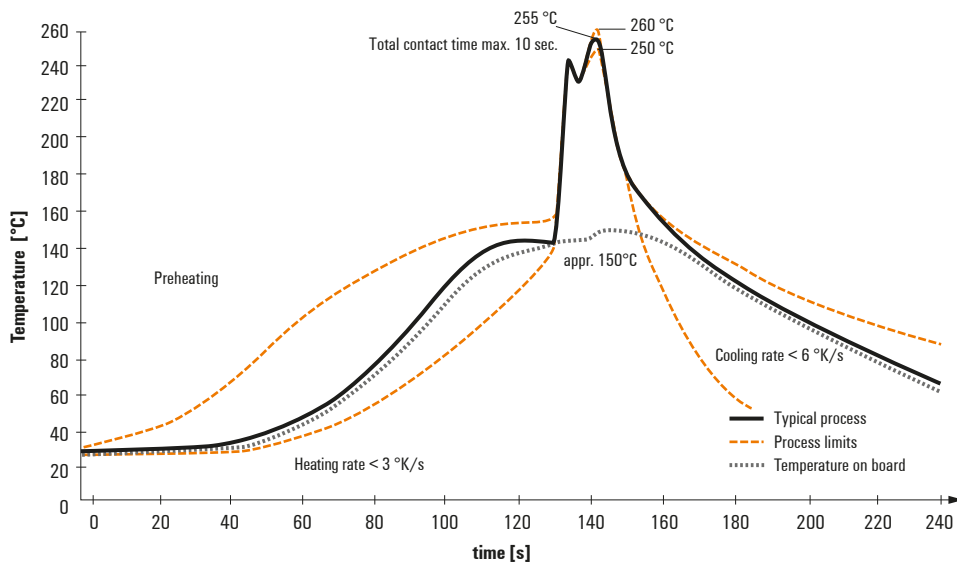
Recommended wave soldering profiles

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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.

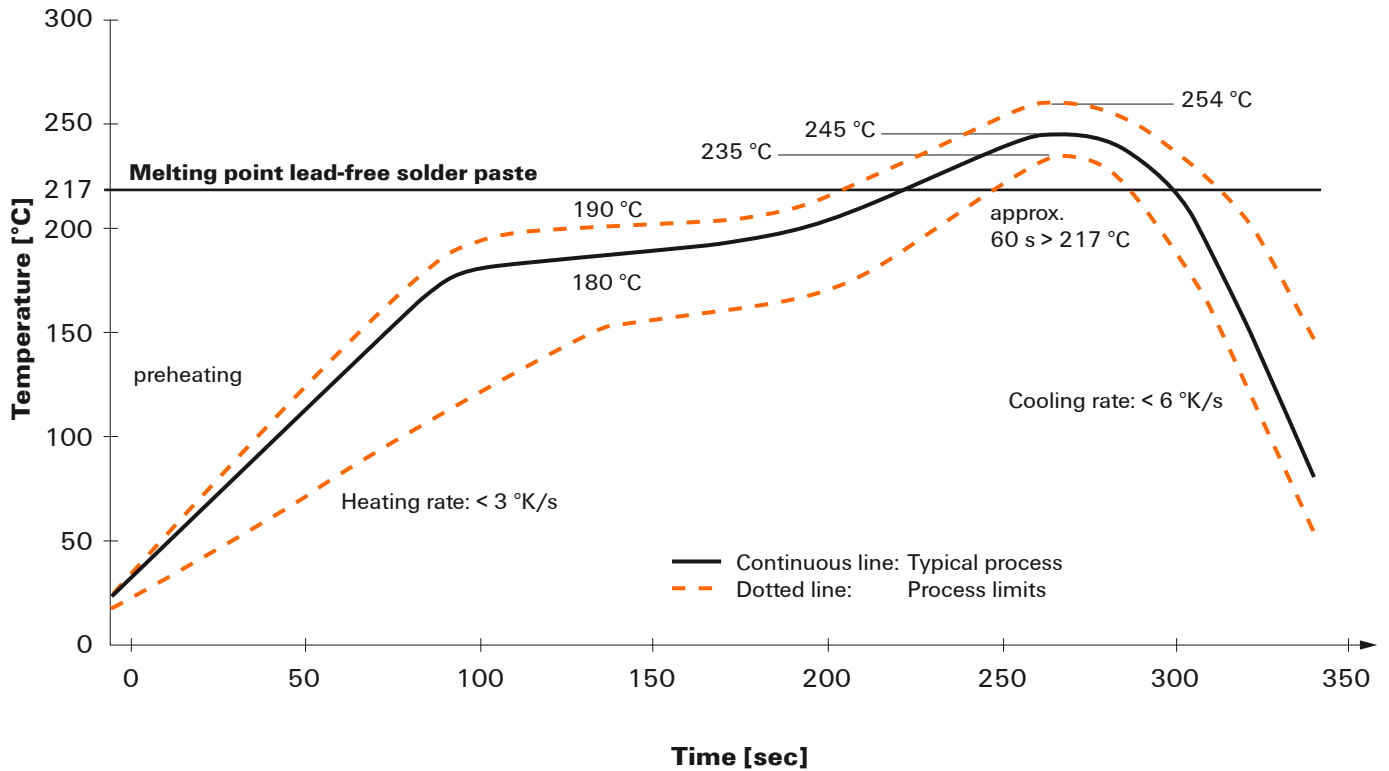
When choosing a suitable profile for your application, the following factors also need to be considered:

- 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.

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